

Chemical, Geologic, and Hydrologic Data from the Little Colorado River Basin, Arizona and New Mexico, 1988–91

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CONVERSION FACTORS

Multiply	By	To obtain
millimeter (mm)	0.03937	inch
centimeter (cm)	0.3937	inch
meter (m)	3.281	foot
kilometer (km)	0.6214	mile
square kilometer (km ²)	0.3861	square mile
cubic meter per second (m ³ /s)	35.3107	cubic foot per second
liter per second (L/s)	15.85	gallon per minute
megagram (Mg)	1.102	ton, short (2,000 pounds)

Air temperatures are given in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by the following equation:

$$^{\circ}\text{F}=1.8(^{\circ}\text{C})+32$$

ABBREVIATED WATER-QUALITY UNITS

Chemical concentration and water temperature are given only in metric units. Chemical concentration in water is given in milligrams per liter (mg/L) or micrograms per liter ($\mu\text{g/L}$). Milligrams per liter is a unit expressing the solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. For concentrations less than 7,000 milligrams per liter, the numerical value is about the same as for concentrations in parts per million. Specific conductance is given in microsiemens per centimeter ($\mu\text{S/cm}$) at 25 degrees Celsius. Radioactivity is expressed in picocuries per liter (pCi/L) or picocuries per gram (pCi/g), which is the amount of radioactive decay producing 2.2 disintegrations per minute in a unit volume (liter) of water or volume (gram) of sediment, respectively. Chemical concentration in material from core samples is given in grams per kilogram (g/kg) or micrograms per gram ($\mu\text{g/g}$). Micrograms per gram is equivalent to parts per million.

VERTICAL DATUM

Sea Level: In this report, "sea level" refers to the National Geodetic Vertical Datum of 1929—A geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called *Sea Level Datum of 1929*.

Chemical, Geologic, and Hydrologic Data from the Little Colorado River Basin, Arizona and New Mexico, 1988–91

By Gregory G. Fisk, Sheryl A. Ferguson, Dale R. Rankin, *and* Laurie Wirt

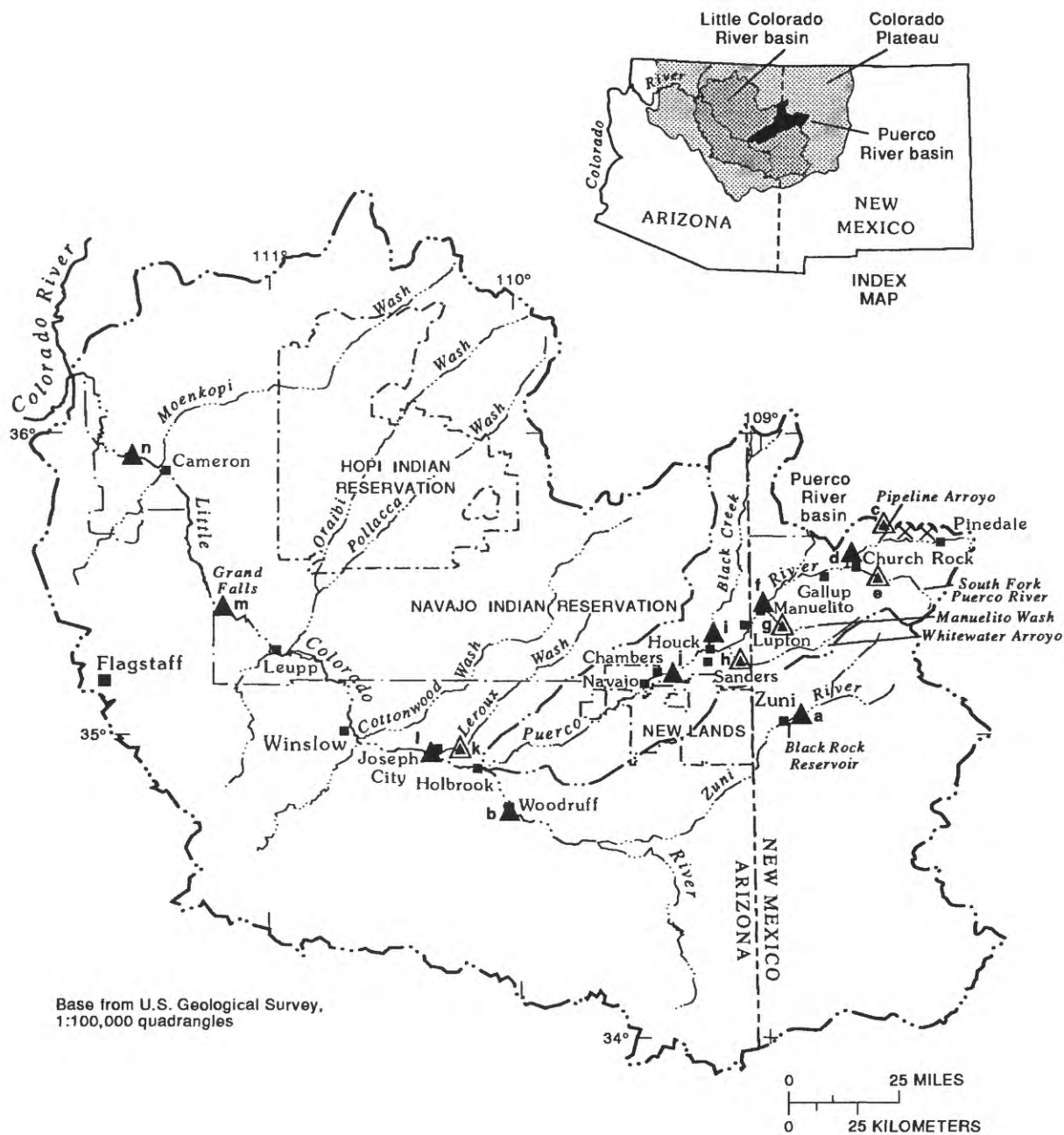
Abstract

In June 1988, the U.S. Geological Survey began a 4-year study of the occurrence and movement of radionuclides and other chemical constituents in ground water and surface water in the Little Colorado River basin in Arizona and New Mexico. Radionuclides and other chemical constituents occur naturally in water, rock, and sediment throughout the region; however, discharge of mine-dewatering effluents released by mining operations increased the quantity of radionuclides and other chemical contaminants. Additionally, in 1979, the failure of a tailings-pond dike resulted in the largest known single release of water contaminated by uranium tailings in the United States. Ground-water and surface-water data were collected from July 1988 through September 1991. Sixty-nine wells were sampled, and collected data include well-construction information, lithologic logs, water levels, and chemical analysis of water samples. These wells include 31 wells drilled by the U.S. Geological Survey, 7 wells drilled by the New Mexico Environment Department, 11 private wells, and 20 temporary hand-driven wells; in addition, 1 spring was sampled. Data from the spring include flow rate and chemical analysis. Data from nine continual-record and five partial-record streamflow-gaging stations include daily mean discharge, daily mean suspended-sediment concentration and discharge, and chemical analysis for discrete water and sediment samples. Precipitation data also were collected at the nine continual-record stations.

INTRODUCTION

In June 1988, the U.S. Geological Survey (USGS) began collecting chemical, geologic, and hydrologic data in a 4-year study of the occurrence and movement of radionuclides and other chemical constituents in ground water and surface water in the Little Colorado River basin in northeastern Arizona and northwestern New Mexico (fig. 1; table 1). The Little Colorado River originates in the White Mountains of Arizona and New Mexico and has a drainage area of 69,800 km² at its confluence with the Colorado River in the Grand Canyon. The Puerco River, a major tributary of the Little Colorado River, drains the west flank of the Chuska Mountains and the western part of the Grants Mineral Belt in New Mexico (fig. 2).

Uranium was mined in the upper Puerco River basin near Church Rock, New Mexico, from the 1950's until 1963 and from 1967 to 1986. Uranium milling also took place near Church Rock from 1977 to 1986. Radionuclides and other chemical constituents occur naturally in water, rock, and sediments throughout the region; however, discharge of dewatering effluents released by mining operations increased the quantity of radionuclides and other chemical contaminants. During mining operations, water was pumped from mine shafts and discharged to Pipeline Arroyo, a tributary of the Puerco River (fig. 1). Water was pumped from the Church Rock Mine at a rate of less than 0.03 m³/s from 1960 until the mine was



EXPLANATION

b▲ CONTINUOUS-RECORD
STREAMFLOW-GAGING
AND PRECIPITATION
STATION—Letter, b, refers
to station identification in
table 1

▲i PARTIAL-RECORD
STREAMFLOW-GAGING
STATION—Letter, i, refers
to station identification in
table 1

⚡ URANIUM MINE

Figure 1. Little Colorado River basin in the Colorado Plateau region of Arizona and New Mexico and locations of streamflow-gaging stations and selected uranium mines. Samples were collected at streamflow-gaging stations to determine the amount of water, sediment, and chemical constituents transported in various parts of the basin.

Table 1. Continual-record and partial-record streamflow-gaging stations used to monitor the occurrence of radionuclides and suspended-sediment transport in the Little Colorado River basin, Arizona and New Mexico

[C, continual-record streamflow-gaging station; P, partial-record streamflow-gaging station]

Station number	Station number as shown in figure 1	Station name	Station type	Drainage area, in square kilometers	Approximate distance downstream from Church Rock Mining District, in kilometers
09386950	a	Zuni River above Black Rock Reservoir, New Mexico	C	2,196	(¹)
09394500	b	Little Colorado River at Woodruff, Arizona	C	20,906	(¹)
353727108312001	c	Pipeline Arroyo near Pinedale, New Mexico	P	² 8	3
09395350	d	Puerco River near Church Rock, New Mexico	C	500	13
353156108362301	e	South Fork Puerco River at Church Rock, New Mexico	P	² 750	(¹)
09395630	f	Puerco River near Manuelito, New Mexico	C	2,176	62
352450108592401	g	Manuelito Wash near Manuelito, New Mexico	P	² 250	(¹)
351515109072101	h	Whitewater Arroyo near Allentown, Arizona	P	378	(¹)
09395990	i	Black Creek below West Fork Black Creek near Houck, Arizona	C	² 1,680	(¹)
09396100	j	Puerco River near Chambers, Arizona	C	5,584	119
09397100	k	Leroux Wash near Holbrook, Arizona	P	2,077	(¹)
09397300	l	Little Colorado River near Joseph City, Arizona	C	32,075	215
09401000	m	Little Colorado River at Grand Falls, Arizona	C	54,908	355
09402000	n	Little Colorado River near Cameron, Arizona	C	68,529	415

¹Not downstream from Church Rock Mining District.

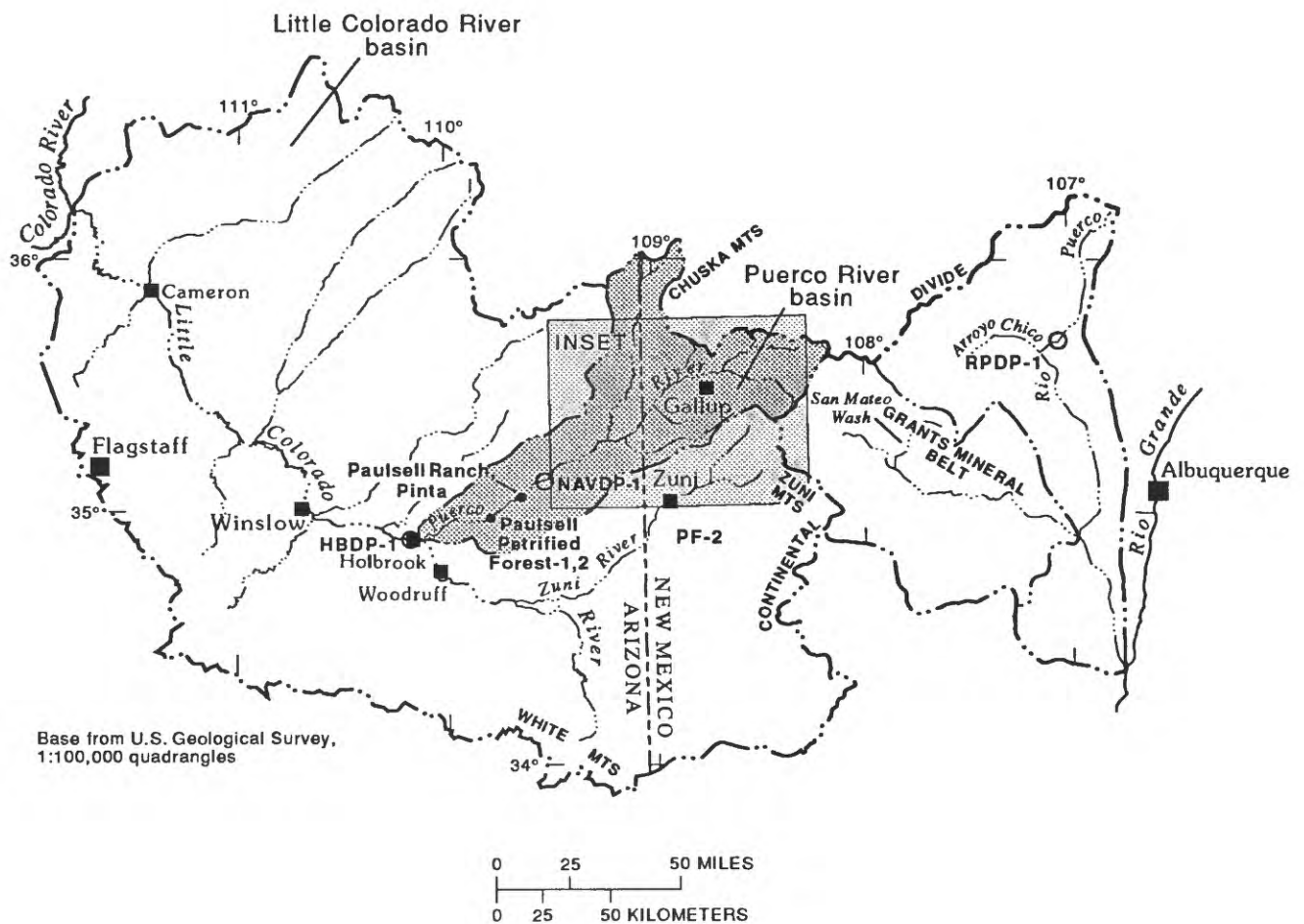
²Approximate.

abandoned in 1963 (Hearne, 1977; Perkins and Goad, 1980). Mining resumed in 1967, and from 1967 to 1986, dewatering discharges ranged from about 0.14 to 0.38 m³/s (Gallaher and Cary, 1986; New Mexico Water Quality Control Commission, 1988; Perkins and Goad, 1980).

In addition, the failure of a tailings-pond dike in 1979 resulted in the largest known single release of water contaminated by uranium mill-processing water and tailings in the United States. After the tailings-pond dike failure, public concern about the quality of surface water and ground water in the Puerco River basin increased, particularly in the

Navajo Tribal Trust Lands referred to as the *New Lands* area near Sanders, Arizona (fig. 1).

In 1985, the Office of Navajo and Hopi Indian Relocation (NHIR) requested that the USGS study the distribution of radionuclides in the water and sediment. Webb and others (1987) made a reconnaissance-level study of the ground-water chemistry in the Puerco River basin. Radionuclide activities in 5 of 14 wells were at or above the Federal and State of Arizona maximum contaminant level for drinking water of 15 pCi/L of gross alpha minus the sum of activity of uranium and radon (McClennan, 1984; U.S. Environmental Protection Agency, 1993).



EXPLANATION

QRDP-1O	TEMPORARY HAND-DRIVEN WELL AND NAME FROM TABLE 2
BLM-1U	NEW MEXICO ENVIRONMENT DEPARTMENT WELL CLUSTER AND INDIVIDUAL WELL NAME
Cedar Point (CP-1 to CP-8)	U.S. GEOLOGICAL SURVEY WELL CLUSTER AND INDIVIDUAL WELL NAME
Paulsell Petrified Forest-1,2	PRIVATE WELL AND WELL NAME
Waterfall Spring	SPRING AND SPRING NAME

Figure 2. Well clusters, temporary hand-driven wells, private wells, and spring used for collection of data.

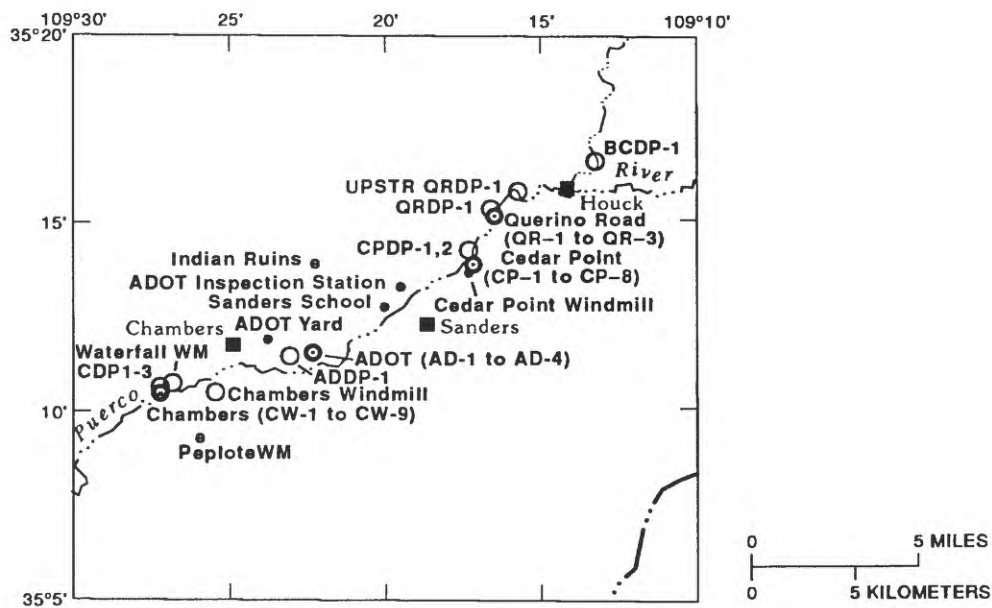
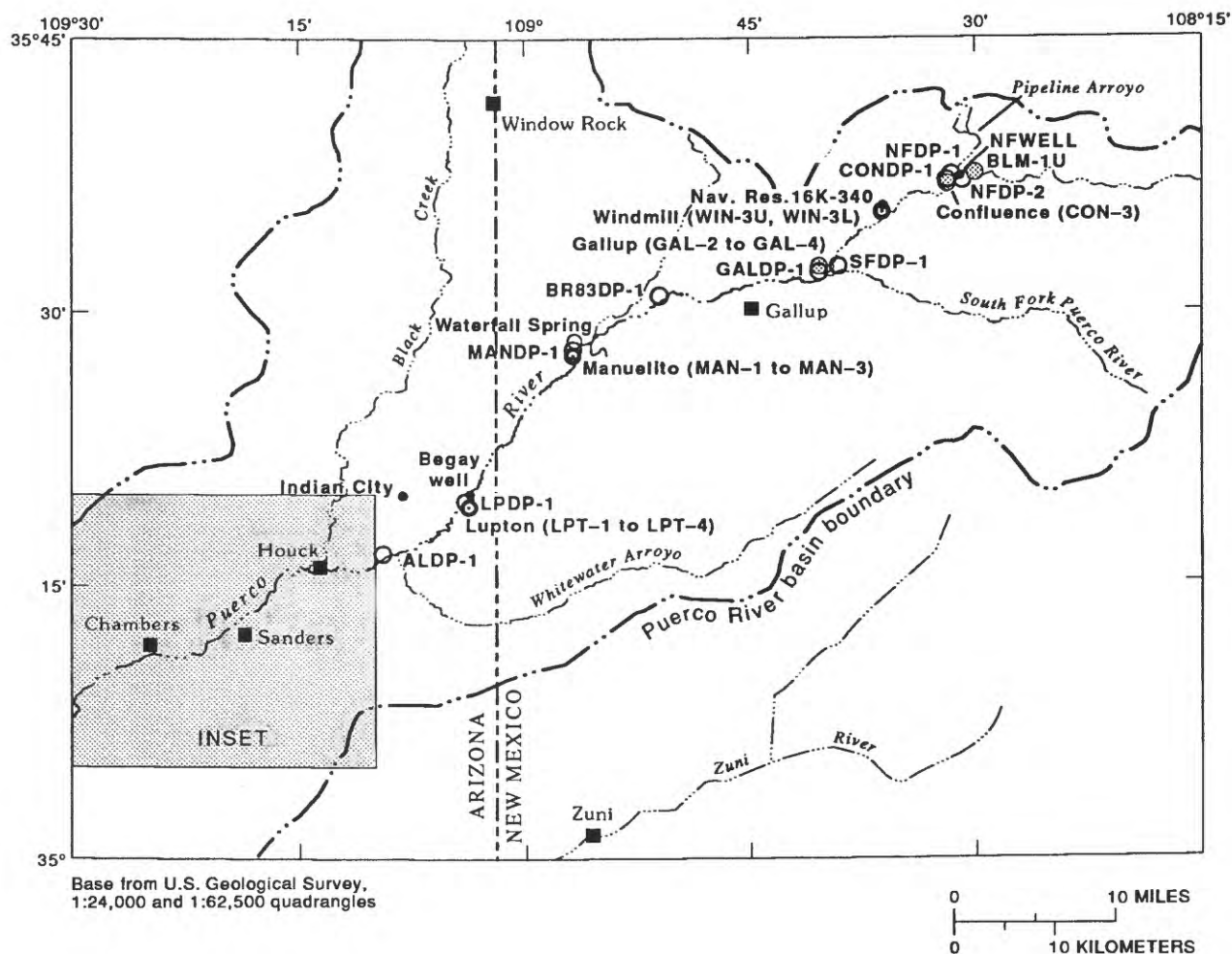


Figure 2. Continued.

In 1988, the USGS began a more detailed study of the occurrence and movement of radionuclides and other chemical constituents in the Puerco and Little Colorado River basins in cooperation with the NHR, U.S. Bureau of Indian Affairs (BIA), Arizona Department of Environmental Quality (ADEQ), Arizona Department of Water Resources (ADWR), the Navajo Nation, and New Mexico Environment Department (NMED).

Purpose and Scope

The purpose of this report is to present chemical, geologic, and hydrologic data for the Little Colorado River basin collected from June 1, 1988, to September 30, 1991. Types of data collected include ground-water levels, ground-water and well-core samples, surface-water discharge, surface-water and suspended-sediment samples, and precipitation data. Ground-water data include well-construction information, lithologic logs, water levels, and chemical analysis including analysis of radionuclides. Sixty-nine wells were sampled—31 wells drilled by the USGS, 7 wells drilled by the NMED, 11 private wells, and 20 temporary hand-driven wells—in addition, 1 spring was sampled. Data from the spring include flow rate and chemical analysis. Surface-water data for nine continual-record and five partial-record streamflow-gaging stations include daily mean values for streamflow discharge, suspended-sediment concentration and discharge, and laboratory analysis of selected radionuclides and chemical constituents. Daily precipitation data are presented for the nine continual-record streamflow-gaging stations.

Acknowledgments

Wayne Lynch, Toby Martinez, and the Navajo Nation granted permission to install and access monitor wells. The Petrified Forest National Park, the Arizona Department of Transportation Maintenance Yard and Inspection Station, Sanders Public School, Indian City and Indian Ruins Trading Posts, and the Paulsell Ranch Trust gave permission for wells on their properties to be sampled. The State of New Mexico Highway Department granted

permission to sample from the Interstate 40 bridge at Manuelito, New Mexico. The Atchison, Topeka, and Santa Fe Railroad Company granted permission to install a continual-record streamflow-gaging station near Chambers, Arizona.

Background

Physical Setting

The Little Colorado River basin of northeastern Arizona and northwestern New Mexico has a drainage area of 68,529 km² upstream from the USGS streamflow-gaging station near Cameron, Arizona, which is 72 km upstream from the confluence with the Colorado River in northern Arizona. The Little Colorado River originates in the White Mountains of eastern Arizona and western New Mexico and flows 573 km to the northwest to its confluence with the Colorado River (fig. 2). Streamflow in the Little Colorado River generally is perennial upstream and ephemeral downstream from Joseph City, Arizona, and has steadily decreased in the last 100 years because of the construction of dams in the upper basin, which created lakes for recreation and provided storage for irrigation diversions.

The Puerco River drains about 7,800 km² of the Little Colorado River basin (fig. 2). The headwaters of the Puerco River are in northwestern New Mexico, north of the Zuni Mountains and south of the Chuska Mountains in the southeastern part of the Colorado Plateau. The river flows 170 km southwest through Gallup, New Mexico, and west-southwest to the Little Colorado River near Holbrook, Arizona. The Puerco River is ephemeral along most of its length and is characterized by long periods of no flow. Peak runoff typically occurs in March and April from snowmelt and rainfall or in July and August from rainfall from thunderstorms (U.S. Department of Agriculture, 1981). Streamflow in some reaches of the Puerco River has become perennial as a result of effluent discharge from the municipal sewage-treatment plant at Gallup, New Mexico (Gallaher and Cary, 1986; Perkins and Goad, 1980).

Climate in the Little Colorado River basin is arid in the lower elevations and semiarid to

subhumid in the mountainous regions. The mean annual precipitation ranges from about 200 mm near Cameron, Arizona, to about 800 mm at the basin divide south of Winslow, Arizona. Average daily temperatures in the basin range from -3° to 27°C.

Hydrogeologic Setting

The Little Colorado River and Puerco River channels are cut into older alluvium that fills valleys eroded in the Quaternary Period (Leopold and Snyder, 1951; Mann and Nemecek, 1983). The valley fill varies in thickness from zero to about 45 m and in width from about 100 m to about 6 km (Mann and Nemecek, 1983). Graf (1990) found that the uppermost 48 km of the Puerco River channel could be divided into reaches underlain by thick alluvial-fill material separated by reaches where bedrock constrains the channel laterally or vertically.

The thickness of the alluvial aquifer along the Puerco and Little Colorado Rivers generally is unknown. Bedrock was found at 20, 32, and 41 m below land surface during the drilling of monitor wells CP-7, CW-1, and CP-1, respectively (table 2) in the Chambers (CW) and Cedar Point (CP) well clusters (fig. 2). Bedrock was not found in a fourth well, AD-1, drilled to a depth of 59 m at the Arizona Department of Transportation cluster (ADOT) on the Lynch Ranch near Sanders, Arizona. In most places, the alluvial aquifer of the Puerco River is underlain by the nearly impermeable siltstone of the Chinle Formation of Triassic age, which impedes downward movement of water. In some areas, such as in tributary channels of the Puerco River near Navajo, Arizona, the alluvium overlies both the permeable sandstone of the Bidahochi Formation of Tertiary age and the sandstone beds of the Chinle Formation. In these areas the alluvium is hydraulically connected to the underlying unit. Most wells that penetrate these formations provide water for livestock and domestic supplies (Wirt and others, 1991).

When mining was active near Church Rock, New Mexico, water was pumped from deep mine shafts and discharged into Pipeline Arroyo. Discharge from mine-dewatering effluent from the Church Rock Mine ranged from 0.03 to 0.37 m³/s

during mining operations (Hearne, 1977; Perkins and Goad, 1980; and Gallaher and Carey, 1986). In 1958, the City of Gallup, New Mexico, began operation of the sewage-treatment facility and has gradually increased effluent discharges. The facility typically discharges about 0.15 m³/s into the Puerco River (Albert Jackson, Wastewater System Superintendent, Water Maintenance and Repair, City of Gallup, New Mexico, written commun., 1990). Effluent discharged from the sewage-treatment plant in Gallup and from mine dewatering near Church Rock resulted in perennial flow in the Puerco River as far downstream as 24 km west of the Arizona-New Mexico border (Arizona Department of Health Services, 1983). Although mine dewatering ceased in 1986, discharges from the sewage-treatment facility in Gallup maintained perennial flow from Gallup to beyond the Arizona-New Mexico border.

APPROACH

Radionuclides and other chemical constituents have a strong tendency to sorb to fine-grained sediment under most natural surface-water conditions (Ames and Rai, 1978; Horowitz, 1985; Horowitz and Elrick, 1987; Hsi and Langmuir, 1985; Langmuir, 1978). The high percentage of silt and clay-sized sediment in the Puerco and Little Colorado Rivers and the corresponding large-particle surface area gives these sediments a high potential for sorption of chemical constituents. Radioactivity of unfiltered samples of storm runoff from the Puerco River has been measured as 2 to 3 orders of magnitude larger than in filtered water samples (Gallaher and Cary, 1986, p. 45-51; Gray and Webb, 1991). Sorbed chemical constituents on suspended sediment are easily transported by runoff. Because of the importance of sediment in transporting radionuclides and other constituents of concern in the Puerco and Little Colorado Rivers, the sampling-site network was designed for collection of data for computation of suspended-sediment loads and loads of chemical constituents carried with the sediment. Because most sediment is carried during brief, infrequent periods of runoff and sample sites are in remote locations, automatic suspended-sediment samplers were the primary mechanism for sample collection.

Table 2. Summary of well-completion data for selected wells, Puerco River basin, Arizona and New Mexico

[Dashes indicate that data is not available]

Well name	Site identification	Land-surface altitude, in meters above sea level	Hole depth, in meters	Casing depth, in meters	Screened interval, in meters		Lithologic unit	Water level below land surface, in meters	Date measured
					From	To			
CW-1	351043109270301	1,744.22	32.0	32.0	27.4	29.0	Bedrock	4.7	09-27-88
CW-2	351043109270302	1,743.85	25.0	25.0	14.3	15.8	Alluvium	3.6	09-27-88
CW-3	351043109270303	1,744.31	11.7	11.7	4.6	6.1	Alluvium	4.2	09-27-88
CW-4	351038109270801	1,743.09	30.5	30.5	27.4	29.0	Alluvium	3.4	09-27-88
CW-5	351038109270802	1,743.02	19.8	19.8	16.8	18.3	Alluvium	3.4	09-27-88
CW-6	351038109270803	1,743.14	9.1	9.1	4.6	7.6	Alluvium	3.6	09-28-88
CW-7	351039109270001	1,748.75	30.0	30.0	24.4	26.0	Alluvium	8.9	09-30-88
CW-8	351039109270002	1,748.88	21.2	21.2	18.3	19.8	Alluvium	8.9	09-30-88
CW-9	351039109270003	1,748.81	16.5	16.5	11.6	14.6	Alluvium	8.8	09-30-88
CDP-1	351044109270501	¹ 1,740	-----	-----	-----	-----	Alluvium	.7	01-16-89
CDP-2	351044109270502	¹ 1,740	-----	-----	-----	-----	Alluvium	-----	-----
CDP-3	351044109270503	¹ 1,740	4.7	-----	-----	-----	Alluvium	.3	04-04-89
CDP-4	351045109270601	1,740.87	-----	-----	-----	-----	Alluvium	-----	-----
AD-1	351140109220901	1,766.01	59.1	57.9	36.6	39.6	Alluvium	5.3	06-20-89
AD-3	351140109220403	1,765.97	12.2	10.1	5.5	8.5	Alluvium	6.1	06-22-89
AD-4	351144109220701	1,765.23	12.2	11.6	5.5	8.5	Alluvium	7.6	06-28-89
AD-5	351139109221301	1,765.44	11.1	9.9	5.3	8.4	Alluvium	3.8	06-23-89
ADDP-1	351135109225001	¹ 1,760	11.0	-----	-----	-----	Alluvium	.7	05-15-90
CP-1	351411109170701	1,792.23	41.0	33.2	26.8	28.3	Bedrock	6.6	06-15-89
CP-2	351411109170702	1,792.30	18.1	18.1	15.4	16.9	Alluvium	6.1	06-28-89
CP-3	351411109170703	1,792.17	8.1	8.1	6.2	7.8	Alluvium	6.0	06-28-89
CP-4	351415109170201	1,792.11	8.1	8.1	5.8	7.3	Alluvium	5.7	06-28-89
CP-5	351410109170201	1,791.71	8.1	8.1	5.3	7.8	Alluvium	5.4	06-19-89
CP-6	351407109165801	1,791.48	7.9	7.7	4.9	7.6	Alluvium	6.9	06-19-89
CP-7	351407109165601	¹ 1,800	20.4	20.4	15.8	18.9	Bedrock	5.8	07-26-90
CP-8	351407109165602	¹ 1,800	39.6	39.6	35.1	38.1	Bedrock	5.8	07-26-90
CPDP-1	351419109165901	¹ 1,790	17.0	-----	1.3	1.6	Alluvium	.7	11-17-89
CPDP-2	351419109165902	¹ 1,790	13.0	-----	-----	-----	Alluvium	.5	05-16-90
QR-1	351519109161501	1,796.55	48.3	34.7	31.7	33.2	Alluvium	4.0	06-30-89
QR-2	351519109161502	1,796.61	9.1	9.0	4.3	7.5	Alluvium	3.8	06-27-89

See the footnotes at the end of the table.

Table 2. Summary of well-completion data for selected wells, Puerco River basin, Arizona and New Mexico—Continued

Well name	Site identification	Land-surface altitude, in meters above sea level	Hole depth, in meters	Casing depth, in meters	Screened interval, in meters		Lithologic unit	Water level below land surface, in meters	Date measured
					From	To			
QR-3	351519109161801	1,794.39	9.1	8.8	4.3	7.3	Alluvium	1.4	06-27-89
QRDP-1	351527109161901	¹ 1,790	16.0	-----	-----	-----	Alluvium	1.6	06-07-89
UPSTR QRDP-1	351620109152101	¹ 1,790	-----	-----	.8	1.1	Alluvium	1.9	06-08-89
LPT-1	351928109042601	1,888.52	21.6	21.6	14.0	15.5	Alluvium	1.1	10-11-90
LPT-2	351928109042602	1,888.76	6.1	6.1	3.0	4.6	Alluvium	1.4	10-11-90
LPT-3	351929109042401	¹ 1,890	8.1	8.1	1.8	5.0	Alluvium	2.1	10-12-90
LPT-4	351930109042701	¹ 1,890	9.1	9.0	2.9	5.9	Alluvium	2.2	10-11-90
LPDP-1	351942109041401	¹ 1,880	-----	-----	1.1	1.4	Alluvium	² .6	06-11-90
MAN-1	352742108563301	¹ 1,910	24.8	24.8	21.8	23.3	Alluvium	6.5	10-10-90
MAN-2	352742108563302	¹ 1,910	13.7	13.7	7.6	10.7	Alluvium	7.9	06-06-90
MAN-3	352743108563401	¹ 1,910	15.7	15.7	9.6	14.2	Alluvium	7.9	10-06-90
MANDP-1	352743108563201	¹ 1,900	-----	-----	0.7	1.0	Alluvium	² .1	10-16-90
GAL-2	353219108400301	¹ 2,000	12.2	12.2	9.1	12.2	Alluvium	4.1	10-24-90
GAL-3	353218108400303	¹ 2,000	3.7	3.7	2.8	3.7	Alluvium	4.2	10-24-90
GAL-4	353218108400304	¹ 2,000	7.4	7.4	6.5	7.4	Alluvium	4.0	10-24-90
GALDP-1	353215108400401	¹ 1,980	3.1	-----	-----	-----	Alluvium	² .5	05-02-90
WIN-3U	353535108355003	¹ 2,040	11.5	11.5	5.5	8.5	Alluvium	5.6	10-24-90
WIN-3L	353535108355004	¹ 2,040	13.7	13.7	-----	-----	Alluvium	6.1	10-24-90
CON-3	353710108312803	¹ 2,080	13.1	13.1	8.5	11.6	Alluvium	10.0	01-11-88
CONDP-1	353717108312801	¹ 2,070	14.0	-----	.7	1.0	Alluvium	.6	10-18-90
BLM-1U	353742108293601	¹ 2,090	16.8	16.8	10.7	13.7	Alluvium	8.8	01-10-89
NF WELL	353726108303702	¹ 2,085	-----	-----	-----	-----	Alluvium	-----	-----
NFDP-1	353727108311501	¹ 2,090	-----	-----	-----	-----	Alluvium	-----	-----
NFDP-2	353726108303701	¹ 2,085	-----	-----	-----	-----	Alluvium	.5	11-18-89
Paulsell Ranch, Petrified Forest	345757109482001	¹ 1,620	13.7	13.7	-----	-----	Alluvium	4.4	07-14-89
Petrified Forestfl2	345850109475001	¹ 1,620	33.5	33.5	.0	33.2	Alluvium	4.0	09-26-75
Paulsell Ranch, Pinta	350338109384801	¹ 1,670	16.8	16.8	-----	-----	Alluvium	4.2	12-05-86
Waterfall Windmill	351044109265401	¹ 1,750	11.3	11.3	-----	-----	Alluvium	9.5	08-21-75
Chambers Windmill	351039109251301	¹ 1,820	-----	-----	-----	-----	-----	-----	-----
Peplote Windmill	350925109254201	¹ 1,850	61.0	61.0	-----	-----	-----	56.8	08-20-75

See the footnotes at the end of the table.

Table 2. Summary of well-completion data for selected wells, Puerco River basin, Arizona and New Mexico—Continued

Well name	Site identification	Land-surface altitude, in meters above sea level	Hole depth, in meters	Casing depth, in meters	Screened interval, in meters		Lithologic unit	Water level below land surface, in meters	Date measured
					From	To			
ADOT Yard	351202109233001	¹ 1,760	-----	-----	-----	-----	-----	-----	-----
Cedar Point Windmill	351311109183701	¹ 1,800	39.6	22.9	0.0	22.2	Bedrock	9.1	12-11-75
Sanders School	351254109194501	¹ 1,770	48.8	48.8	-----	-----	Alluvium	36.6	-----
ADOT Inspection Station	351325109191601	¹ 1,790	-----	-----	-----	-----	-----	-----	-----
Indian Ruins	351400109220001	¹ 1,870	-----	-----	-----	-----	Bedrock	-----	-----
Indian City	352000109075001	¹ 2,010	-----	-----	-----	-----	-----	-----	-----
Begay Well	351933109041701	¹ 1,860	3.07	3.07	-----	-----	Alluvium	2.1	12-03-86
Navajo Res. 16K-340	353535108355005	¹ 2,040	43.0	43.0	-----	-----	-----	11.3	06-22-54
Holbrook DP (HBDP-1)	345351110094401	-----	-----	-----	-----	-----	-----	-----	-----
Navajo DP (NAVDP-1)	350719109320801	¹ 1,710	1.46	-----	-----	-----	-----	-----	-----
Allentown DP (ALDP-1)	351650109064801	¹ 1,830	1.46	-----	-----	-----	-----	.49	06-12-91
Black Creek DP (BCDP-1)	351645109130001	¹ 1,840	1.22	-----	-----	-----	-----	.35	05-16-90
South Fork DP (SFDP-1)	353232108384801	¹ 2,010	1.46	-----	-----	-----	-----	-----	-----
Bridge-83 DP (BR83DP-1)	350356108504401	¹ 1,930	1.46	-----	-----	-----	-----	.061	10-16-90
Rio Puerco DP (RPDP-1)	354020107043301	¹ 1,800	1.22	-----	-----	-----	-----	-----	-----

¹Elevation measured from topographic map.²Water level measured below streambed.

METHODS

Most of the data in this report were collected using standard USGS methods. Methods for collection, examination, and computation of records of discharge, sediment, water chemistry, and other hydrologic data; definition of downstream order; and methods of identifying data-collection sites are described by Boner and others (1992, p. 6–37), except as noted.

Well-Numbering Systems

The well numbers used by the USGS in Arizona are in accordance with the Bureau of Land Management's system of land subdivision. The land survey in Arizona is based on the Gila and Salt River Meridian and Base Line, which divides the State into four quadrants (fig. 3). These quadrants are designated counterclockwise by the capital letter—A, B, C, and D. All land north and east of the point of origin is in A quadrant, that north and

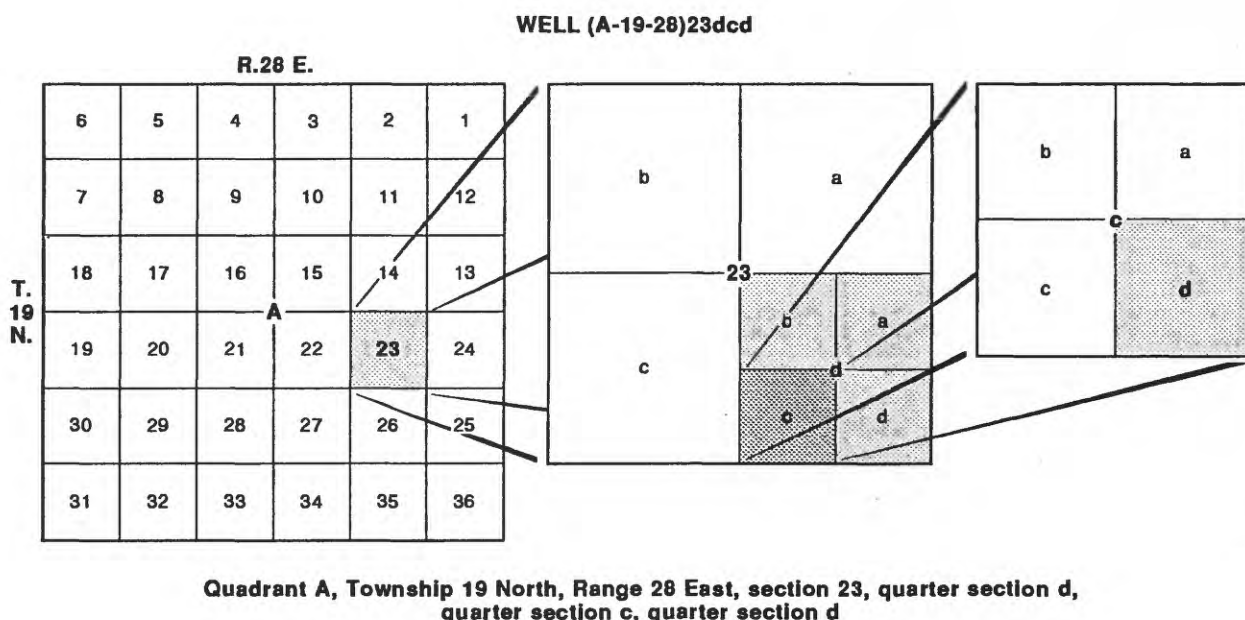


Figure 3. Well-numbering system in Arizona. Wells are numbered according to a system that uses numbers and letters to identify the location of wells (Smith and others, 1992).

west in B quadrant, that south and west in C quadrant, and that south and east in D quadrant. The first digit of a well number indicates the township, the second the range, and the third the section in which the well is situated. The lower case letters a, b, c, and d after the section number indicate the subsections. The first letter denotes the first quarter section, the second the quarter section of the first quarter section, and the third the quarter section of the second quarter section. These letters also are assigned in a counterclockwise direction, beginning in the northeast quarter. Lowercase letters are assigned only to known subsections; for example, if the well location within the third subsection is not known, then there will be only two lowercase letters. The well number (A-19-28)23dcd designates the well as being in quadrant A, Township 19 North, Range 28 East, section 23, subsection d, subsection c, subsection d (fig. 3). The well is in the $SE\frac{1}{4}SW\frac{1}{4}SE\frac{1}{4}$; sec. 23, T. 19 N., R. 28 E. Where there is more than one well within a subsection, consecutive numbers beginning with 1 are added as suffixes.

In New Mexico, the State identification number locates the well site to the nearest 10-acre tract in

the land network (fig. 4). The site number is divided into four segments. The first segment denotes the township north or south of the New Mexico Base Line; the second segment denotes the range east or west of the New Mexico Principal Meridian; the third segment denotes the section. The fourth segment, consisting of three digits, denotes the 160-, 40-, and 10-acre tracts, respectively, in which the site is situated. The section is divided into four quarters, numbered 1, 2, 3, and 4, clockwise, for the northwest, northeast, southeast, and southwest quarters, respectively. The first digit of the fourth segment gives the quarter section, which is a tract of 160 acres. Similarly, the quarter section is divided into four 40-acre tracts numbered in the same manner; the second digit denotes the 40-acre tract. Finally, the 40-acre tract is divided into four 10-acre tracts; the third digit denotes the 10-acre tract. Thus, site T.16N., R.16W.,17.214 is in the $SE\frac{1}{4}NW\frac{1}{4}NE\frac{1}{4}$, section 17, Township 16 North, Range 16 West. If the site cannot be located accurately within a 10-acre tract, the third digit is absent; if it cannot be located accurately within a 40-acre tract, both the second and third digits are absent. If the site cannot be located more closely

WELL T.16N.R.16W.17.214

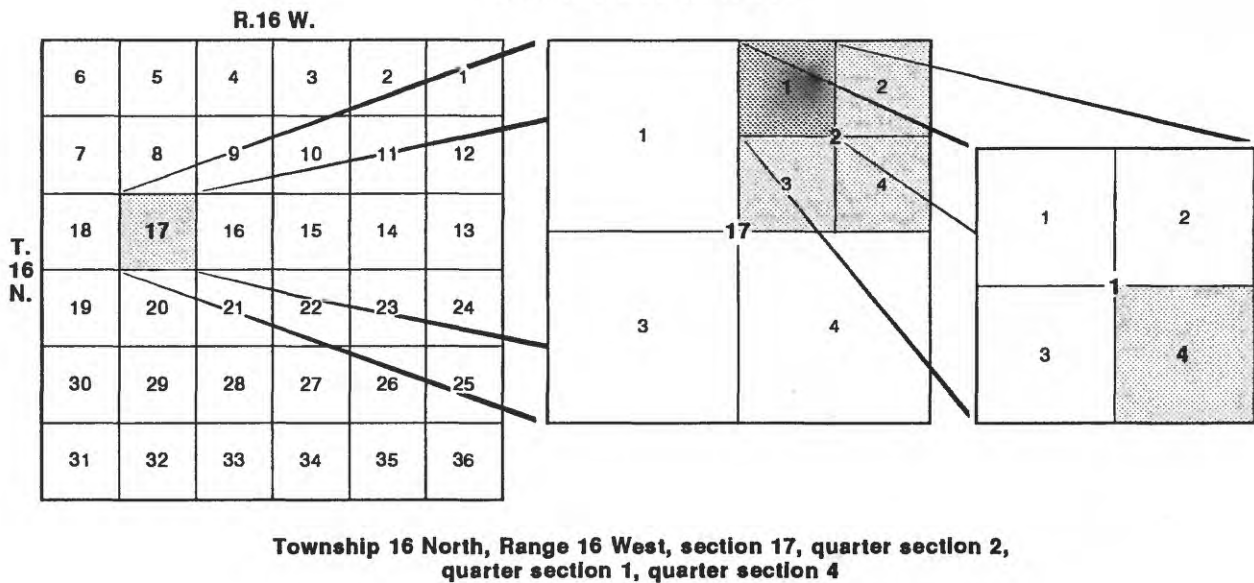


Figure 4. Well-numbering system in New Mexico. The well-numbering system for New Mexico is similar to that in Arizona, but uses numbers rather than letters (Gallaher and Cary, 1986).

than a section, the entire fourth segment of the number is omitted (Gallaher and Cary, 1986).

Ground-Water Data Collection

The USGS drilled 33 wells at 6 different sites, referred to as clusters that had 3 to 9 wells each. Thirty-one wells had sufficient flow to monitor water levels and to sample for chemical constituents. The six USGS well clusters (fig. 2) are: (1) near Manuelito, New Mexico; (2) near Lupton, Arizona; (3) downstream from Querino Road near Houck, Arizona; (4) at Cedar Point, Arizona; (5) near the Arizona Department of Transportation (ADOT) maintenance yard near Chambers, Arizona (referred to as the ADOT Cluster); and (6) near Chambers, Arizona. Monitor wells were constructed of 51-millimeter-diameter polyvinyl-chloride (PVC) pipe with a 0.25-millimeter screen that was 1.6 to 3.0 m in length. Twenty-seven of the 31 wells were drilled into the alluvium and four were drilled into the bedrock below the alluvium. Ten wells—four at Chambers Cluster (CW-2, CW-3, CW-6, and CW-9); two at ADOT Cluster

(AD-3 and AD-5); one at Querino Road Cluster (QR-2); and three at Cedar Point Cluster (CP-2, CP-3, and CP-4) were equipped with continual water-level recorders (table 2). Water levels were recorded at 15-minute intervals. The remaining wells were inspected and water levels were measured monthly. Thirty-one wells were sampled at least once, and selected wells were measured biannually to determine temporal variations. Water samples were collected from monitor wells using a submersible pump. Dissolved-oxygen concentration, specific conductance, water temperature, and pH were monitored continually during pumping to ensure that the conditions in the well had stabilized before samples were collected.

Temporary shallow wells were placed at 20 locations in the Puerco River streambed. The wells were hand driven into the streambed to a depth where the screen was below the water table. Well casings were constructed of 32-millimeter-diameter stainless-steel pipe with a 0.25-millimeter screen that was 61 cm in length. Water samples were collected with a peristaltic pump.

In addition to wells installed by the USGS, 18 existing wells also were sampled. The New Mexico Environment Department (NMED) granted access

to 7 wells in 4 NMED clusters between Pipeline Arroyo and Gallup, New Mexico (fig. 2). Eleven private wells also were sampled. These samples were collected from a spigot or with a submersible pump. The spring was sampled using a peristaltic pump to pump water from the spring opening directly to the churn splitter.

Surface-Water Data Collection

Data were collected at nine continual-record and five partial-record streamflow-gaging stations

(table 1). The continual-record streamflow-gaging stations had five principal components: (1) a data-collection platform (DCP), (2) a stage sensor, (3) a rain gage, (4) an automatic water sampler, and (5) an auxiliary pump (fig. 5). The DCP's were programmed to: (1) receive and store input from the stage sensor and rain gage, (2) trigger as many as 24 automatic water samples, (3) record individual water-sample numbers and their corresponding times, and (4) transmit data every 4 hours to a USGS computer by satellite.

The automatic water-sampling system had two subcomponents—a Manning Environmental

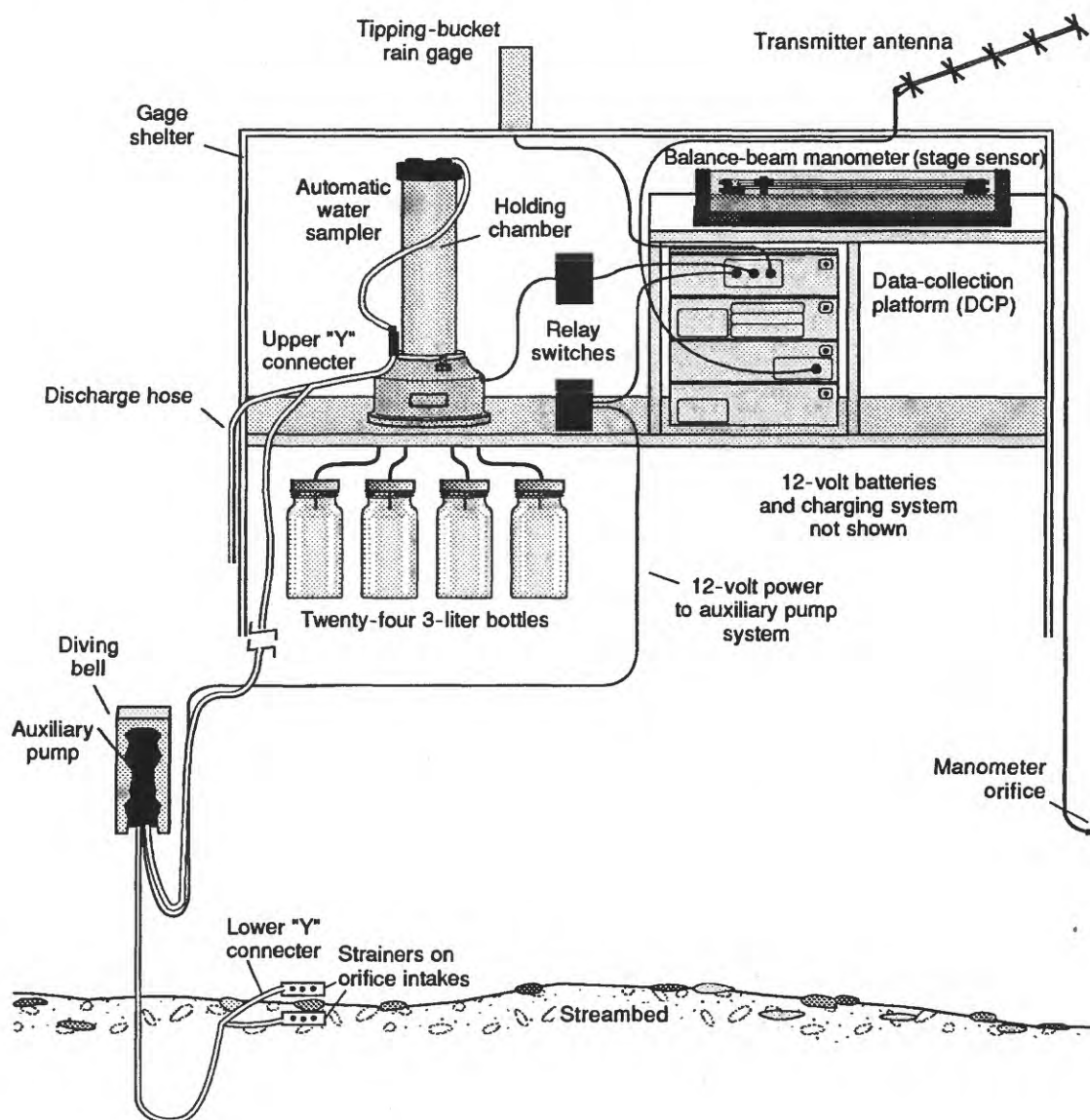


Figure 5. Surface-water samples collected using a continual-record streamflow-gaging station and an automatic water sampler.

Corporation Model S-4050 automatic water sampler and an auxiliary pump (fig. 5). All automatic water-sampling system parts that contacted water samples were nonmetallic. The auxiliary pumps were near the channel and pumped water from the stream to the automatic samplers. The automatic samplers collected as many as 24 individual 3-liter samples and distributed them to sample bottles. The DCP's were programmed to activate the automatic sampler and auxiliary pump when stage, change-in-stage, and change-in-time criteria were met. The automatic water-sampling system resulted in the sampling of 6 to 19 flow events at the nine continual-record streamflow-gaging stations (table 3).

The five partial-record streamflow-gaging stations consisted of a bank of as many as eight passive single-stage samplers and a peak-stage indicator. The samplers collected water samples from near the water surface during rising stages (fig. 6). Samplers designed for this study were a modification of the U-59 series single-stage sampler developed by the Subcommittee on Sedimentation (1961).

Continual-record and partial-record streamflow-gaging stations were visited during runoff, when possible, or soon after runoff occurred. Water samples were removed and

prepared for processing and analysis. During runoff, water discharge was measured using methods described by Rantz and others (1982) and flow-integrated samples were collected using methods described by Edwards and Glysson (1988).

Water samples collected manually and with automatic water samplers typically had high concentrations of sediment, which made filtering difficult. Consequently, samples were transported to field offices in Flagstaff, Arizona, or Albuquerque, New Mexico, for processing. Water samples were processed either as individual discrete samples to obtain an instantaneous value, or as a flow-weighted composite, to obtain a value representative of a period of runoff, using the following equation

$$S_i = \frac{T_i Q_i \sum_{i=1}^n S_i}{\sum_{i=1}^n T_i Q_i}$$

where

S_i = volume of the individual sample, representing the interval T_i ;

Table 3. Number of flow events sampled and samples collected at continual-record streamflow-gaging stations in the Little Colorado River basin, Arizona and New Mexico, water years 1989-91.

Station number	Station name	Number of flow events sampled	Number of samples collected	Number of composite samples	Number of flow-integrated samples
09386950	Zuni River above Black Rock Reservoir, New Mexico	13	27	0	3
09394500	Little Colorado River at Woodruff, Arizona	13	79	5	2
09395350	Puerco River near Church Rock, New Mexico	11	32	0	3
09395630	Puerco River near Manuelito, New Mexico	14	35	0	2
09395990	Black Creek near Houck, Arizona	6	22	0	2
09396100	Puerco River near Chambers, Arizona	15	37	2	2
09397300	Little Colorado River near Joseph City, Arizona	16	78	2	3
0940100	Little Colorado River at Grand Falls, Arizona	14	90	7	8
09402000	Little Colorado River near Cameron, Arizona	19	33	3	11

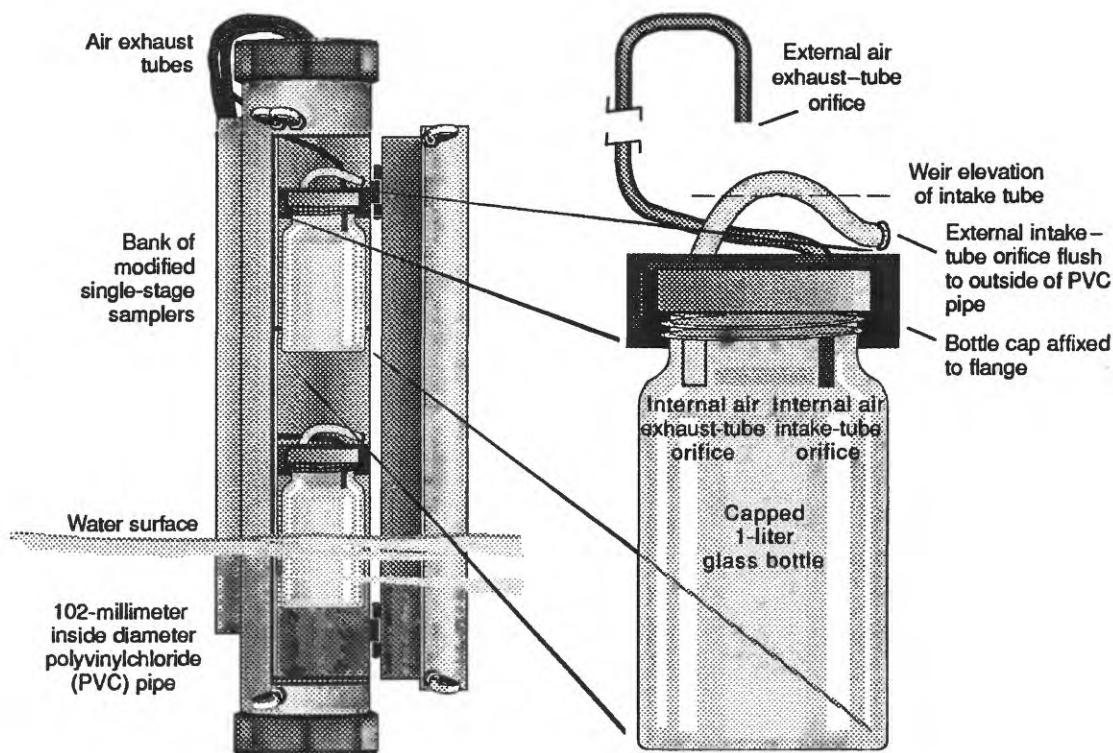


Figure 6. Passive single-stage sampler, which collects water from near the surface during rising stages (Gray and Fisk, 1992).

T_i = interval time, in minutes, from the start of the event to the midpoint between the first and second sample, or from the midpoints between the following samples, and from the midpoint before the last sample to the end of the event;

Q_i = mean discharge during the sample interval; and

n = number of intervals.

Flow-weighted composite samples, which require a single laboratory analysis for constituent concentration to represent an entire runoff period, were used to reduce the number and cost of analyses. A representative aliquot from each discrete sample that was proportional to the volume of runoff event was obtained using a cone-splitter.

The composite sample was processed using standard methods. All individual samples of the runoff event were processed and analyzed for sediment concentration.

Because suspended-sediment samples from the Little Colorado River basin normally contained large amounts (5–20 percent sediment by weight) of fine-grained (<0.062 mm) sediment, special techniques were required to separate sediment from water for chemical analysis of dissolved constituents. Samples for dissolved-constituent analyses usually were centrifuged before filtering to remove the large concentrations of sediment from suspension. Disposable high-surface area (0.45 μ m) cartridge filters were used to filter the centrifuged water. Filters were rinsed before use with about 200 mL of deionized water and about 100 mL of sample water. Because large amounts of colloidal material in the water quickly clogged the filter, only 100 mL of sample water were used to rinse the filter. The sediment obtained from the centrifuge was oven dried at 80°C and then

processed for the analysis of suspended constituents.

Because certain dissolved gases, such as carbon dioxide (CO₂) in streamflow, are volatile and escape rapidly to the atmosphere, the chemistry of the streamflow samples may have changed between collection, processing, and preservation. A change in the chemistry would account for high concentrations of dissolved iron, dissolved manganese, dissolved copper, and dissolved zinc that were determined in some automated and manual samples. Manually collected cross-section samples could have been contaminated by samplers used for collection of integrated samples (David A. Rickert, hydrologist, U.S. Geological Survey, oral commun., 1992). Sampler contamination has been shown to cause high concentrations of arsenic, cadmium, chromium, copper, iron, lead, zinc, and beryllium in the dissolved phase. In this study, the dissolved chemistry of manually collected samples was not significantly different from the chemistry of automated (Manning) samples; therefore, sampler contamination was not evident.

Precipitation

Precipitation data were collected at the nine continual-record surface-water sites with tipping-bucket gages. The precipitation gages recorded in increments of 0.25 mm per tip, and data were compiled as daily totals.

Data Analyses

Chemical analyses were made by the USGS National Water Quality Laboratory (NWQL), Arvada, Colorado, except as noted. All non-USGS laboratories that analyzed samples were inspected and approved by the NWQL before use. Analyses not made by the NWQL are identified by numeric or letter codes in the data tables. Most samples were shipped to the NWQL and then to laboratories subcontracted by the NWQL; however, some samples were shipped directly to other USGS laboratories and to the New Mexico Health and Environment Department Scientific Laboratory Division (NMSLD; table 4, this report). Most of the column headings in tables containing results of

chemical analysis include a five-digit parameter code used by the USGS computer system, WATSTORE, to uniquely identify a constituent.

Dissolved Chemical Constituents

Analyses for dissolved chemical constituents were made by NWQL, which performed analyses using standard methods described by Fishman and Friedman (1989). An ionic balance was computed as part of the review of laboratory results for dissolved constituents (Hem, 1985, p. 164). The balance was computed as:

$$\frac{\text{cations} - \text{anions}}{\text{cations} + \text{anions}} \times 100,$$

where

cations = sum of the concentrations of all positively charged ions, in milliequivalents per liter; and

anions = sum of the concentrations of all negatively charged ions, in milliequivalents per liter.

All major ionic species determined in the analysis were included in the computation. If the result of the equation was less than 8 percent, the numerical values for each chemical constituent were accepted. Balances greater than 8 percent could have been the result of a rapid change in the water chemistry between time of collection and processing and analysis. Laboratory reruns of analyses were requested when results exceeded 8 percent, providing additional water samples were available.

Analyses of chemical constituents on suspended sediment were done by the USGS Branch of Mineral Resources Laboratory, Denver, Colorado. The method involved the complete digestion of dried sediment in mixed acids before analysis by induction-coupled plasma atomic-emission spectrometry (Fishman and Friedman, 1989). Duplicate analyses on selected samples were made by the USGS Sediment Partitioning

Table 4. Agencies that analyzed samples from the Little Colorado River basin, Arizona and New Mexico

Type of analytals	Date	Analyzing agency and laboratory
Field measurements	1988–91	U.S. Geological Survey, Water Resources Division, Arizona District
Dissolved and total ions, trace metals, and nutrients	1988–91	U.S. Geological Survey, Water Resources Division, National Water Quality Laboratory, Arvada, Colorado
¹⁸ Oxygen/ ¹⁶ oxygen, deuterium/protium	1988–91	U.S. Geological Survey, Water Resources Division, Reston, Virginia
Sulfur isotopes (³⁴ S/ ³² S)	1988–91	U.S. Geological Survey, Geologic Division, Denver, Colorado
Solid-phase trace metals	1988–91	U.S. Geological Survey, Geologic Division, Denver, Colorado
Solid-phase radiochemicals: Gross alpha, gross beta, uranium-234, uranium-235, uranium-238, radium-226, radium-228, thorium-230, thorium-232	1988–89	New Mexico Health and Environment Department Scientific Laboratory Division, Albuquerque, New Mexico
Dissolved and total radiochemicals: Gross alpha, gross beta, uranium-234, uranium-235, uranium-238, polonium-210, lead-210, radium-226, radium-228, thorium-230, thorium-232, tritium	1988 1989 1990–91	U.S. Testing, Richland, Washington International Technology Corporation, Oak Ridge, Tennessee International Technology Corporation, Richland, Washington
Cesium-137	1989–91	U.S. Geological Survey, National Research Program, Menlo Park, California
Grain size and sediment concentration	1988–90	U.S. Geological Survey, Sediment Laboratory, Iowa City, Iowa
	1990–92	U.S. Geological Survey, Cascades Volcanic Observatory, Washington
	1992	U.S. Geological Survey, Arizona District Sediment Laboratory

Research Project Laboratory in Doraville, Georgia (Fishman and Friedman, 1989, p. 535–545).

Isotope Analyses

Selected ground-water and surface-water samples were analyzed for isotopes of hydrogen (protium, deuterium, and tritium), oxygen (¹⁸O/¹⁶O), and sulfur (³⁴S/³²S). Analyses of samples for isotopes of oxygen and hydrogen were made at the USGS Isotope Fractionation Laboratory in Reston, Virginia. Sulfur isotope ratios (³⁴S/³²S) for dissolved samples and suspended sediment were measured by the USGS, Geologic Division, Denver, Colorado. Thirty

suspended-sediment samples were analyzed for cesium-137 at the USGS National Research Laboratory in Menlo Park, California.

Radionuclide Analyses

Several laboratories were subcontracted by the NWQL to analyze samples for radionuclide activity during the 4-year collection period. The NWQL subcontracted radionuclide analysis of water and sediment to three laboratories in the private sector: U.S. Testing, Richland, Washington, in 1988; International Technology Corporation (IT), Oak Ridge, Tennessee, in 1989; and IT, Richland, Washington (formerly U.S. Testing), in 1990 and 1991. In

addition, NMSLD analyzed suspended sediment and well-core material for radionuclides from June 1988 to September 1990. Analytical methods and quality-assurance procedures varied among the Oak Ridge, Richland, and NMSLD laboratories. At all three laboratories, concentrations of radioactive isotopes in the suspended phase were reported in picocuries per gram.

Measurements of uranium-series radionuclides followed standard methods described by U.S. Environmental Protection Agency (USEPA), USGS, and American Society for Testing and Materials (ASTM). Dissolved isotopic uranium (^{238}U , ^{234}U , and ^{235}U) was measured using ASTM method D 3972-90, through an alpha spectrometer (American Society for Testing and Materials, 1992). For solid-phase isotopic uranium, the uranium is separated from sediment using wet-chemical extraction techniques before the radioactivity of the individual uranium isotopes is measured. Chemical-extraction techniques also are used for solid-phase radium and thorium isotope measurements. Elemental uranium concentration, in micrograms per liter, is determined by the standard fluorometric technique (USGS R-1180-76) described in Thatcher and others (1977, p. 89-92). Radioactivity of radium (^{226}Ra and ^{228}Ra) was measured by radon-222 (^{222}Rn) emanation using a scintillation counter according to USEPA methods 903.1 and 904.0, respectively (U.S. Environmental Protection Agency, 1980). Measurements of ^{232}Th and ^{230}Th activities were made using the ASTM method D 3084-89 and an alpha spectrometer (American Society for Testing and Materials, 1992). The chemical separation and precipitation method (USGS R-1130-76) was used for ^{210}Pb (Thatcher and others, 1977, p. 33-37). Gross-alpha and gross-beta radioactivities were measured according to EPA method 900.0, using a thin end-window proportional counter (U.S. Environmental Protection Agency, 1980). The NMSLD also followed approved EPA methods. Concentration of ^{226}Ra was measured by counting the ^{222}Rn progeny by gas-phase scintillation using a Lucas cell. Radioactivities of ^{210}Pb and ^{228}Ra were measured by beta counting of the bismuth-210 and actinium-228 daughters, respectively (Loren Berge, radiochemist, New Mexico Health and Environment Department Scientific Laboratory Division, oral commun., 1990).

Gross-alpha and gross-beta analyses were affected by several types of analytical errors in addition to those normally inherent in procedures for other chemical constituents. The degree of error for gross alpha and gross beta was observed to vary significantly between duplicate samples and between samples analyzed by different laboratories. Other possible sources of error include interferences caused by uneven particle surfaces (for unfiltered samples) and ingrowth of radionuclides between the time of collection and analysis. In many instances, the measured uncertainty of gross-alpha and gross-beta radioactivity is more than half of the numerical value determined, as indicated by reported counting and precision errors. Analytical procedures used by the NWQL contract laboratory were not documented and in many instances reruns were not possible because there were inadequate volumes of sample remaining.

In addition to these measurement errors, a study of radionuclides in ground water in the Carson River basin of Nevada (Thomas and others, 1993), found that gross-beta activity in the dissolved phase was derived in part from decay of potassium-40 and ingrowth of ^{238}U progeny. Ingrowth occurred in the sample between the time it was collected and the time it was analyzed. The gross-beta activity in water samples was found to increase proportionally in relation to sample-storage time. In this study, it is presumed that ingrowth during sample storage may have affected the accuracy of total gross-alpha and total gross-beta results.

Although data for total gross-alpha and total gross-beta radioactivities from unfiltered water samples are included in this report, they are considered poor values and are flagged accordingly in the tables. Most of the total gross-alpha and gross-beta analyses are from the first year of the study. Subsequently, a different method was used. Quality-assurance checks on gross-alpha analyses of sample splits showed that analyses of dried sediment (reported in picocuries per gram), were more precise than sample splits for whole samples, reported in picocuries per liter. Differences in the analytical values for replicate analyses on unfiltered samples were probably caused by nonrepresentative sample-splitting techniques used by the laboratory. Subsequent to this finding, all analyses for total radioactivity were made on dried

suspended sediment rather than whole-water samples. Values of total or suspended-phase radionuclides reported in this study were converted from picocuries per gram to picocuries per liter. Although this method of analyzing samples is more precise and therefore more accurate, the sample analyses should not be compared with data collected by other agencies before this study because of differences in sample-collection and laboratory procedures.

Sediment

Suspended-sediment and bed-material samples were analyzed by USGS sediment laboratories in Iowa City, Iowa, and Vancouver, Washington. Suspended-sediment samples were analyzed for sediment concentration and grain-size distribution, and bed-material samples were analyzed for grain-size distribution using methods described by Guy (1969).

Daily suspended-sediment concentration and sediment discharge were calculated from values of streamflow discharge collected at 10-minute intervals (discharge unit values) and discrete suspended-sediment concentrations using methods described by Porterfield (1972) and a computer program (SEDCALC) to calculate sediment-discharge records (J.R. Gray, hydrologist, U.S. Geological Survey, written commun., 1990).

Two SEDCALC subroutines were used to calculate unit and daily suspended-sediment concentration and discharge: (1) linear interpolation using an uneven time interval and (2) transport curve. Measured suspended-sediment concentrations were used in conjunction with concentrations extrapolated from a transport curve to develop a plot of suspended-sediment concentration with time for each runoff event. Linear interpolation then was used to calculate 10-minute suspended-sediment concentration unit values, which were used with discharge-unit values to calculate suspended-sediment discharge. The transport-curve method calculates suspended-sediment discharge by utilizing suspended-sediment concentrations from samples and the corresponding discharge in a linear regression on the logarithms of both variables. The results of the regression were a log offset and a slope

of the sediment-discharge line, which were used with discharge unit values to calculate suspended-sediment discharge.

SUMMARY

During 1988–91, chemical, geologic, and hydrologic data were collected in the Little Colorado River basin in Arizona and New Mexico to determine the distribution and movement of radionuclides and other chemical constituents in ground water and surface water. Sixty-nine ground-water wells were sampled—31 wells drilled by the USGS, 7 wells drilled by the NMED, 11 private wells, and 20 temporary hand-driven wells—in addition, 1 spring was sampled. Data from wells include well-construction information, lithologic logs, water levels, and chemical data for discrete samples. Data from the spring include flow rate and chemical analysis. Surface-water data were collected from nine continual-record and five partial-record streamflow-gaging stations. Data from streamflow-gaging stations include daily-mean discharge, daily-mean suspended-sediment concentration and discharge, and chemical data for discrete samples. Precipitation data also were collected at the continual-record streamflow-gaging stations.

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BASIC DATA

GROUND-WATER DATA
DAILY WATER LEVELS
CHAMBERS WELL CLUSTER

STATION NUMBER—351043109270302

STATION NAME—CW-2

LOCATION—Lat 35°10'43", Long 109°27'03", in SW¼SE¼NW¼ sec. 25, T.21 N., R.27 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-27)35bdc2.

LAND SURFACE ALTITUDE—1743.58 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, NOVEMBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1740.14	1740.17	---	1740.27	1740.21	1740.15	1740.06	1739.96	1739.76	1739.67
2	---	---	1740.13	1740.19	---	1740.27	1740.21	1740.15	1740.04	1739.96	1739.74	1739.68
3	---	---	1740.14	1740.18	---	1740.28	1740.21	1740.16	1740.04	1739.96	1739.74	1739.71
4	---	---	1740.15	1740.17	---	1740.28	1740.21	1740.17	1740.05	1739.96	1739.73	1739.71
5	---	---	1740.15	1740.16	---	1740.28	1740.22	1740.19	1740.04	1739.95	1739.72	1739.70
6	---	---	1740.16	1740.15	---	1740.26	1740.22	1740.19	1740.04	1739.96	1739.71	1739.83
7	---	---	1740.15	1740.16	---	1740.24	1740.21	1740.19	1740.03	1739.97	1739.71	1739.81
8	---	---	1740.15	1740.17	1740.23	1740.24	1740.22	1740.17	1740.03	1740.02	1739.73	1739.78
9	---	---	1740.16	1740.15	1740.22	1740.24	1740.20	1740.14	1740.03	1740.12	1739.72	1739.77
10	---	---	1740.17	1740.17	1740.23	1740.26	1740.19	1740.15	1740.03	1740.13	1739.71	1739.78
11	---	---	1740.15	---	1740.23	1740.28	1740.19	1740.14	1740.02	1740.21	1739.70	1739.74
12	---	---	1740.15	---	1740.26	1740.27	1740.19	1740.13	1740.02	1740.21	1739.69	1739.72
13	---	---	1740.15	---	1740.26	1740.29	1740.18	1740.13	1740.02	1740.25	1739.70	1739.69
14	---	---	1740.15	---	1740.27	1740.28	1740.17	1740.13	1740.01	1740.20	1739.76	1739.68
15	---	---	1740.15	---	1740.24	1740.28	1740.18	1740.12	1740.01	1740.02	1739.94	1739.67
16	---	1740.14	1740.17	---	1740.22	1740.26	1740.18	1740.11	1740.01	1739.94	1739.87	1739.67
17	---	1740.14	1740.17	---	1740.23	1740.26	1740.17	1740.12	1739.99	1739.90	1739.96	1739.68
18	---	1740.13	1740.17	---	1740.23	1740.25	1740.17	---	1739.99	1739.93	1739.90	1739.69
19	---	1740.13	1740.15	---	1740.23	1740.23	1740.17	---	1739.99	1739.89	1739.83	1739.69
20	---	1740.14	1740.15	---	1740.23	1740.23	1740.17	---	1739.99	1739.87	1739.79	1739.72
21	---	1740.15	1740.15	---	1740.24	1740.23	1740.17	---	1739.99	1739.86	1739.84	1739.76
22	---	1740.14	1740.15	---	1740.24	1740.22	1740.17	1740.09	1739.99	1739.84	1739.82	1739.77
23	---	1740.15	1740.15	---	1740.24	1740.22	1740.18	1740.09	1739.98	1739.83	1739.78	1739.83
24	---	1740.15	1740.15	---	1740.24	1740.22	1740.19	1740.09	1739.98	1739.84	1739.75	1739.81
25	---	1740.15	1740.15	---	1740.25	1740.21	1740.19	1740.08	1739.98	1739.83	1739.72	1739.77
26	---	1740.15	1740.17	---	1740.25	1740.21	1740.19	1740.08	1739.98	1739.81	1739.71	1739.74
27	---	1740.14	1740.17	---	1740.25	1740.22	1740.17	1740.08	1739.98	1739.80	1739.70	1739.73
28	---	1740.13	1740.18	---	1740.25	1740.22	1740.16	1740.08	1739.97	1739.78	1739.69	1739.71
29	---	1740.13	1740.19	---	---	1740.22	1740.16	1740.08	1739.96	1739.76	1739.69	1739.69
30	---	1740.14	1740.18	---	---	1740.22	1740.15	1740.07	1739.96	1739.76	1739.68	1739.69
31	---	---	1740.16	---	---	1740.21	---	1740.07	---	1739.76	1739.67	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351043109270302 (CW-2)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1739.70	1739.64	1739.64	1739.66	1739.74	1739.87	1739.96	1739.82	1739.70	---	---	---
2	1739.71	1739.69	1739.63	1739.66	1739.76	1739.94	1739.95	1739.81	1739.71	---	---	---
3	1739.71	1739.70	1739.62	1739.67	1739.76	1739.96	1739.96	1739.80	1739.70	---	---	---
4	1739.69	1739.69	1739.63	1739.71	1739.76	1739.92	1739.95	1739.78	1739.70	---	---	---
5	1739.69	1739.71	1739.64	1739.71	1739.79	1739.91	1739.96	1739.78	---	---	---	---
6	1739.68	1739.70	1739.63	1739.73	1739.79	1739.97	1739.96	1739.79	---	---	---	---
7	1739.67	1739.70	1739.63	1739.79	1739.79	1739.97	1739.97	1739.78	---	---	---	---
8	1739.66	1739.68	1739.63	1739.81	1739.82	1739.94	1739.95	1739.77	---	---	---	---
9	1739.65	1739.68	1739.63	1739.82	1739.87	1739.91	1739.94	1739.77	---	---	---	---
10	1739.66	1739.68	1739.63	1739.83	1739.88	1739.90	1739.94	1739.76	---	---	---	---
11	1739.66	1739.67	1739.64	1739.81	1739.91	1739.89	1739.92	1739.74	---	---	---	---
12	1739.65	1739.67	1739.64	1739.82	1739.93	1739.86	1739.90	1739.73	---	---	---	---
13	1739.65	1739.67	1739.68	1739.82	1739.95	1739.86	1739.92	1739.74	---	---	---	---
14	1739.64	1739.66	1739.70	1739.82	1739.94	1739.88	1739.92	1739.74	---	---	---	---
15	1739.64	1739.65	1739.71	1739.83	1739.89	1739.88	1739.90	1739.73	---	---	---	---
16	1739.64	1739.64	1739.75	1739.82	1739.89	1739.89	1739.87	1739.73	---	---	---	---
17	1739.63	1739.65	1739.70	1739.80	1739.90	1739.88	1739.86	1739.73	---	---	---	---
18	1739.63	1739.66	1739.69	1739.80	1739.89	1739.89	1739.87	1739.72	---	---	---	---
19	1739.66	1739.66	1739.70	1739.81	1739.84	1739.90	1739.90	1739.71	---	---	---	---
20	1739.85	1739.65	1739.70	1739.80	1739.83	1739.89	1739.91	1739.72	---	---	---	---
21	1739.80	1739.63	1739.68	1739.80	1739.83	1739.90	1739.91	1739.73	---	---	---	---
22	1739.76	1739.63	1739.67	1739.80	1739.83	1739.88	1739.90	1739.71	---	---	---	---
23	1739.73	1739.63	1739.64	1739.79	1739.82	1739.89	1739.90	1739.70	---	---	---	---
24	1739.71	1739.63	1739.65	1739.79	1739.81	1739.91	1739.89	1739.71	---	---	---	---
25	1739.69	1739.64	1739.66	1739.77	1739.79	1739.90	1739.88	1739.71	---	---	---	---
26	1739.68	1739.69	1739.66	1739.77	1739.80	1739.90	1739.87	1739.71	---	---	---	---
27	1739.67	1739.66	1739.65	1739.78	1739.80	1739.90	1739.86	1739.70	---	---	---	---
28	1739.66	1739.63	1739.68	1739.79	1739.83	1739.94	1739.84	1739.69	---	---	---	---
29	1739.66	1739.63	1739.70	1739.78	---	1739.95	1739.83	1739.69	---	---	---	---
30	1739.64	1739.65	1739.68	1739.75	---	1739.96	1739.82	1739.70	---	---	---	---
31	1739.64	---	1739.66	1739.74	---	1739.94	---	1739.69	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER—351043109270303

STATION NAME—CW-3

LOCATION—Lat 35°10'43", Long 109°27'03", in SW¼SE¼NW¼ sec. 35, T.21 N., R.27 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-27)35bdc3.

LAND SURFACE ALTITUDE—1743.78 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1740.07
2	---	---	---	---	---	---	---	---	---	---	---	1740.06
3	---	---	---	---	---	---	---	---	---	---	---	1740.06
4	---	---	---	---	---	---	---	---	---	---	---	1740.07
5	---	---	---	---	---	---	---	---	---	---	---	1740.06
6	---	---	---	---	---	---	---	---	---	---	---	1740.09
7	---	---	---	---	---	---	---	---	---	---	---	1740.15
8	---	---	---	---	---	---	---	---	---	---	---	1740.15
9	---	---	---	---	---	---	---	---	---	---	---	1740.13
10	---	---	---	---	---	---	---	---	---	---	---	1740.12
11	---	---	---	---	---	---	---	---	---	---	---	1740.10
12	---	---	---	---	---	---	---	---	---	---	---	1740.09
13	---	---	---	---	---	---	---	---	---	---	---	1740.07
14	---	---	---	---	---	---	---	---	---	---	---	1740.06
15	---	---	---	---	---	---	---	---	---	---	---	1740.06
16	---	---	---	---	---	---	---	---	---	---	---	1740.06
17	---	---	---	---	---	---	---	---	---	---	---	1740.06
18	---	---	---	---	---	---	---	---	---	---	---	1740.06
19	---	---	---	---	---	---	---	---	---	---	---	1740.05
20	---	---	---	---	---	---	---	---	---	---	---	1740.04
21	---	---	---	---	---	---	---	---	---	---	---	1740.04
22	---	---	---	---	---	---	---	---	---	---	1740.19	1740.04
23	---	---	---	---	---	---	---	---	---	---	1740.16	1740.04
24	---	---	---	---	---	---	---	---	---	---	1740.15	1740.04
25	---	---	---	---	---	---	---	---	---	---	1740.13	1740.03
26	---	---	---	---	---	---	---	---	---	---	1740.11	1740.03
27	---	---	---	---	---	---	---	---	---	1740.43	1740.10	1740.03
28	---	---	---	---	---	---	---	---	---	---	1740.09	1740.02
29	---	---	---	---	---	---	---	---	---	---	1740.09	1740.02
30	---	---	---	---	---	---	---	---	---	---	1740.09	1740.03
31	---	---	---	---	---	---	---	---	---	---	1740.08	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351043109270303 (CW-3)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1740.03	---	1740.12	1740.14	1740.19	1740.24	1740.18	1740.12	---	---	1739.72	1739.64
2	1740.03	---	1740.11	1740.15	1740.19	1740.24	1740.18	1740.12	---	---	1739.71	1739.64
3	1740.03	---	1740.11	1740.14	1740.16	1740.25	1740.17	1740.13	---	---	1739.70	1739.67
4	1740.06	---	1740.12	1740.14	1740.18	1740.25	1740.18	1740.14	---	---	1739.70	1739.68
5	1740.09	---	1740.13	1740.13	1740.19	1740.25	1740.19	1740.15	---	---	1739.69	1739.67
6	1740.08	---	1740.13	1740.12	1740.18	1740.23	1740.18	1740.16	---	---	1739.68	1739.80
7	1740.08	---	1740.12	1740.13	1740.19	1740.21	1740.18	1740.15	---	---	1739.68	1739.78
8	1740.08	---	1740.12	1740.13	1740.20	1740.21	1740.19	1740.13	---	---	1739.70	1739.75
9	1740.07	---	1740.13	1740.12	1740.19	1740.21	1740.17	1740.11	---	---	1739.69	1739.74
10	1740.06	---	1740.14	1740.13	1740.19	1740.22	1740.15	1740.12	---	---	1739.68	1739.75
11	1740.06	---	1740.12	1740.14	1740.20	1740.24	1740.16	1740.11	---	---	1739.66	1739.71
12	1740.06	---	1740.12	1740.15	1740.22	1740.24	1740.16	1740.10	---	---	1739.65	1739.68
13	1740.06	---	1740.12	1740.15	1740.22	1740.25	1740.15	1740.09	---	---	1739.67	1739.66
14	1740.07	---	1740.12	1740.15	1740.24	1740.25	1740.14	1740.09	---	---	1739.72	1739.64
15	1740.08	---	1740.12	1740.16	1740.21	1740.25	1740.15	1740.09	---	---	1739.90	1739.64
16	1740.06	1740.12	1740.14	1740.16	1740.19	1740.22	1740.15	1740.08	---	---	1739.84	1739.64
17	1740.05	1740.11	1740.14	1740.17	1740.19	1740.22	1740.14	1740.08	---	---	1739.94	1739.64
18	1740.05	1740.10	1740.14	1740.17	1740.19	1740.22	1740.14	---	---	---	1739.87	1739.66
19	1740.05	1740.10	1740.12	1740.17	1740.19	1740.20	1740.13	---	---	---	1739.80	1739.66
20	1740.07	1740.11	1740.12	1740.16	1740.19	1740.20	1740.13	---	---	---	1739.76	1739.68
21	1740.09	1740.12	1740.13	1740.15	1740.20	1740.20	1740.13	---	---	---	1739.81	1739.73
22	1740.09	1740.11	1740.12	1740.16	1740.21	1740.19	1740.13	---	---	---	1739.79	1739.74
23	1740.09	1740.12	1740.12	1740.17	1740.20	1740.19	1740.14	---	---	---	1739.75	1739.80
24	1740.10	1740.13	1740.12	1740.16	1740.21	1740.19	1740.15	---	---	---	1739.71	1739.78
25	1740.11	1740.12	1740.12	1740.16	1740.22	1740.17	1740.15	---	---	---	1739.69	1739.74
26	1740.09	1740.12	1740.14	1740.18	1740.22	1740.17	1740.15	---	---	---	1739.67	1739.71
27	1740.10	1740.12	1740.14	1740.17	1740.22	1740.19	1740.13	---	---	1739.76	1739.66	1739.70
28	---	1740.10	1740.15	1740.17	1740.22	1740.18	1740.13	---	---	1739.75	1739.66	1739.68
29	---	1740.10	1740.15	1740.18	---	1740.18	1740.12	---	---	1739.73	1739.66	1739.66
30	---	1740.12	1740.14	1740.19	---	1740.18	1740.12	---	---	1739.72	1739.65	1739.66
31	---	---	1740.12	1740.19	---	1740.18	---	---	---	1739.72	1739.64	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351043109270303 (CW-3)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1739.66	1739.61	1739.61	1739.63	1739.70	1739.84	1739.93	1739.78	1739.66	---	---	---
2	1739.67	1739.65	1739.60	1739.62	1739.72	1739.91	1739.91	1739.77	1739.67	---	---	---
3	1739.67	1739.67	1739.59	1739.64	1739.73	1739.93	1739.92	1739.75	1739.66	---	---	---
4	1739.66	1739.66	1739.59	1739.67	1739.72	1739.89	1739.92	1739.74	1739.66	---	---	---
5	1739.66	1739.68	1739.60	1739.68	1739.75	1739.87	1739.93	1739.73	---	---	---	---
6	1739.65	1739.67	1739.59	1739.69	1739.75	1739.94	1739.93	1739.75	---	---	---	---
7	1739.64	1739.67	1739.59	1739.75	1739.75	1739.94	1739.93	1739.74	---	---	---	---
8	1739.62	1739.64	1739.60	1739.78	1739.78	1739.91	1739.91	1739.73	---	---	---	---
9	1739.62	1739.65	1739.59	1739.79	1739.83	1739.88	1739.91	1739.73	---	---	---	---
10	1739.62	1739.64	1739.60	1739.80	1739.84	1739.86	1739.91	1739.72	---	---	---	---
11	1739.62	1739.63	1739.60	1739.77	1739.88	1739.85	1739.88	1739.70	---	---	---	---
12	1739.61	1739.63	1739.61	1739.79	1739.90	1739.83	1739.87	1739.70	---	---	---	---
13	1739.62	1739.63	1739.65	1739.79	1739.91	1739.83	1739.89	1739.70	---	---	---	---
14	1739.61	1739.63	1739.66	1739.78	1739.91	1739.84	1739.88	1739.70	---	---	---	---
15	1739.60	1739.61	1739.67	1739.79	1739.86	1739.85	1739.87	1739.69	---	---	---	---
16	1739.60	1739.60	1739.72	1739.78	1739.85	1739.85	1739.84	1739.69	---	---	---	---
17	1739.59	1739.62	1739.66	1739.77	1739.87	1739.84	1739.82	1739.69	---	---	---	---
18	1739.60	1739.62	1739.66	1739.77	1739.85	1739.86	1739.83	1739.68	---	---	---	---
19	1739.62	1739.62	1739.67	1739.77	1739.81	1739.86	1739.86	1739.67	---	---	---	---
20	1739.82	1739.62	1739.66	1739.76	1739.80	1739.85	1739.87	1739.68	---	---	---	---
21	1739.77	1739.60	1739.64	1739.77	1739.79	1739.87	1739.87	1739.68	---	---	---	---
22	1739.73	1739.59	1739.63	1739.77	1739.79	1739.84	1739.87	1739.67	---	---	---	---
23	1739.70	1739.59	1739.60	1739.76	1739.79	1739.86	1739.86	1739.66	---	---	---	---
24	1739.67	1739.60	1739.61	1739.76	1739.77	1739.88	1739.86	1739.67	---	---	---	---
25	1739.66	1739.61	1739.62	1739.74	1739.76	1739.87	1739.84	1739.67	---	---	---	---
26	1739.65	1739.65	1739.62	1739.73	1739.76	1739.87	1739.83	1739.67	---	---	---	---
27	1739.63	1739.62	1739.62	1739.75	1739.76	1739.86	1739.83	1739.66	---	---	---	---
28	1739.62	1739.59	1739.65	1739.75	1739.79	1739.90	1739.81	1739.65	---	---	---	---
29	1739.61	1739.59	1739.66	1739.74	---	1739.92	1739.80	1739.65	---	---	---	---
30	1739.60	1739.61	1739.64	1739.71	---	1739.92	1739.78	1739.66	---	---	---	---
31	1739.60	---	1739.63	1739.70	---	1739.91	---	1739.66	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER—351038109270803

STATION NAME—CW-6

LOCATION—Lat 35°10'38", Long 109°27'08", in NE¼NW¼SW¼ sec. 35, T.21 N., R.27 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-27)35cba3.

LAND SURFACE ALTITUDE—1742.78 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1739.37
2	---	---	---	---	---	---	---	---	---	---	---	1739.37
3	---	---	---	---	---	---	---	---	---	---	---	1739.36
4	---	---	---	---	---	---	---	---	---	---	---	1739.37
5	---	---	---	---	---	---	---	---	---	---	---	1739.36
6	---	---	---	---	---	---	---	---	---	---	---	1739.39
7	---	---	---	---	---	---	---	---	---	---	---	1739.46
8	---	---	---	---	---	---	---	---	---	---	---	1739.45
9	---	---	---	---	---	---	---	---	---	---	---	1739.44
10	---	---	---	---	---	---	---	---	---	---	---	1739.43
11	---	---	---	---	---	---	---	---	---	---	---	1739.41
12	---	---	---	---	---	---	---	---	---	---	---	1739.40
13	---	---	---	---	---	---	---	---	---	---	---	1739.38
14	---	---	---	---	---	---	---	---	---	---	---	1739.37
15	---	---	---	---	---	---	---	---	---	---	---	1739.37
16	---	---	---	---	---	---	---	---	---	---	---	1739.37
17	---	---	---	---	---	---	---	---	---	---	---	1739.37
18	---	---	---	---	---	---	---	---	---	---	---	1739.36
19	---	---	---	---	---	---	---	---	---	---	---	1739.36
20	---	---	---	---	---	---	---	---	---	---	---	1739.34
21	---	---	---	---	---	---	---	---	---	---	1739.54	1739.34
22	---	---	---	---	---	---	---	---	---	---	1739.51	1739.34
23	---	---	---	---	---	---	---	---	---	---	1739.48	1739.33
24	---	---	---	---	---	---	---	---	---	---	1739.47	1739.34
25	---	---	---	---	---	---	---	---	---	---	1739.44	1739.33
26	---	---	---	---	---	---	---	---	---	---	1739.43	1739.33
27	---	---	---	---	---	---	---	---	---	1739.31	1739.42	1739.33
28	---	---	---	---	---	---	---	---	---	1739.41	1739.41	1739.33
29	---	---	---	---	---	---	---	---	---	1739.57	1739.41	1739.33
30	---	---	---	---	---	---	---	---	---	---	1739.40	1739.33
31	---	---	---	---	---	---	---	---	---	---	1739.39	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351038109270803 (CW-6)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1739.33	1739.38	1739.41	---	1739.50	1739.54	1739.50	1739.44	---	---	1739.05	---
2	1739.32	1739.38	1739.41	---	1739.50	1739.55	1739.49	1739.44	---	---	1739.05	---
3	1739.32	1739.39	1739.41	---	1739.48	1739.55	1739.50	1739.44	---	---	1739.04	---
4	1739.34	1739.40	1739.42	---	1739.49	1739.56	1739.50	1739.45	---	---	1739.04	---
5	1739.37	1739.39	1739.43	---	1739.50	1739.57	1739.51	1739.47	---	---	1739.03	---
6	1739.37	1739.39	1739.44	---	1739.49	1739.55	1739.50	1739.47	---	---	1739.01	1739.10
7	1739.37	1739.40	1739.43	---	1739.50	1739.54	1739.50	1739.47	---	---	1739.01	1739.06
8	1739.36	1739.39	---	---	1739.51	1739.53	1739.50	1739.46	---	---	1739.03	1739.05
9	1739.36	1739.39	---	---	1739.51	1739.53	1739.49	1739.44	---	---	1739.02	1739.05
10	1739.36	1739.40	---	---	1739.51	1739.54	1739.48	1739.44	---	---	1739.01	1739.05
11	1739.35	1739.40	---	1739.45	1739.51	1739.55	1739.49	1739.44	---	---	1739.00	1739.02
12	1739.35	1739.41	---	1739.45	1739.53	1739.55	1739.48	1739.43	---	---	1738.99	1739.00
13	1739.35	1739.41	---	1739.46	1739.54	1739.55	1739.47	1739.42	---	---	1738.99	1738.98
14	1739.36	1739.41	---	1739.46	1739.55	1739.56	1739.47	1739.42	---	---	1739.03	1738.97
15	1739.36	1739.40	---	1739.47	1739.53	1739.56	1739.47	1739.41	---	---	1739.16	1738.96
16	1739.35	1739.41	---	1739.47	1739.51	1739.55	1739.47	1739.40	---	---	1739.14	1738.96
17	1739.34	1739.41	---	1739.47	1739.52	1739.55	1739.47	1739.41	---	---	1739.19	1738.95
18	1739.34	1739.41	---	1739.48	1739.52	1739.54	1739.46	---	---	---	---	1738.96
19	1739.34	1739.40	---	1739.48	1739.51	1739.53	1739.45	---	---	---	---	1738.97
20	1739.35	1739.41	---	1739.47	1739.51	1739.53	1739.45	---	---	---	---	1738.98
21	1739.37	1739.42	---	1739.47	1739.52	1739.53	1739.45	---	---	---	---	1739.03
22	1739.38	1739.42	---	1739.48	1739.52	1739.52	1739.45	---	---	---	---	1739.04
23	1739.39	1739.42	---	1739.49	1739.52	1739.52	1739.46	---	---	---	---	1739.08
24	1739.39	1739.43	---	1739.48	1739.53	1739.51	1739.46	---	---	---	---	1739.08
25	1739.40	1739.43	---	1739.47	1739.54	1739.51	1739.46	---	---	---	---	1739.05
26	1739.38	1739.43	---	1739.49	1739.53	1739.50	1739.47	---	---	---	---	1739.03
27	1739.39	1739.42	---	1739.48	1739.54	1739.51	1739.45	---	---	1739.11	---	1739.02
28	1739.39	1739.41	---	1739.47	1739.53	1739.51	1739.45	---	---	1739.09	---	1739.00
29	1739.38	1739.41	---	1739.49	---	1739.51	1739.44	---	---	1739.08	---	1738.98
30	1739.37	1739.41	---	1739.50	---	1739.50	1739.44	---	---	1739.06	---	1738.97
31	1739.39	---	---	1739.50	---	1739.50	---	---	---	1739.06	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351038109270803 (CW-6)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1738.97	1738.92	1738.92	1738.94	1738.99	1739.11	1739.19	1739.06	1738.94	---	---	---
2	1738.98	1738.94	1738.91	1738.94	1739.00	1739.14	1739.18	1739.06	1738.94	---	---	---
3	1738.99	1738.97	1738.90	1738.94	1739.01	1739.15	1739.19	1739.04	1738.94	---	---	---
4	1738.97	1738.97	1738.91	1738.97	1739.01	1739.16	1739.19	1739.02	1738.94	---	---	---
5	1738.97	1738.99	1738.91	1738.97	1739.04	1739.16	1739.19	1739.01	---	---	---	---
6	1738.97	1738.98	1738.91	1738.98	1739.03	1739.17	1739.20	1739.02	---	---	---	---
7	1738.95	1738.97	1738.91	1739.02	1739.04	1739.19	1739.21	1739.02	---	---	---	---
8	1738.94	1738.95	1738.91	1739.04	1739.06	1739.18	1739.20	1739.01	---	---	---	---
9	1738.94	1738.95	1738.91	1739.05	1739.08	1739.16	1739.19	1739.01	---	---	---	---
10	1738.94	1738.96	1738.91	1739.06	1739.10	1739.16	1739.20	1739.01	---	---	---	---
11	1738.94	1738.95	1738.91	1739.05	1739.12	1739.15	1739.18	1738.99	---	---	---	---
12	1738.94	1738.95	1738.91	1739.06	1739.14	1739.12	1739.15	1738.98	---	---	---	---
13	1738.94	1738.95	1738.94	1739.07	1739.15	1739.13	1739.16	1738.99	---	---	---	---
14	1738.92	1738.94	1738.96	1739.07	1739.15	1739.13	1739.17	1738.99	---	---	---	---
15	1738.92	1738.93	1738.96	1739.07	1739.14	1739.14	1739.17	1738.98	---	---	---	---
16	1738.92	1738.92	1739.00	1739.07	1739.14	1739.14	1739.14	1738.97	---	---	---	---
17	1738.91	1738.93	1738.97	1739.05	1739.16	1739.12	1739.11	1738.97	---	---	---	---
18	1738.91	1738.93	1738.96	1739.05	1739.15	1739.14	1739.10	1738.97	---	---	---	---
19	1738.93	1738.93	1738.97	1739.06	1739.11	1739.15	1739.13	1738.96	---	---	---	---
20	1739.05	1738.93	1738.96	1739.05	1739.10	1739.14	1739.15	1738.96	---	---	---	---
21	1739.05	1738.91	1738.95	1739.05	1739.09	1739.15	1739.16	1738.97	---	---	---	---
22	1739.03	1738.91	1738.93	1739.05	1739.09	1739.13	1739.15	1738.96	---	---	---	---
23	1739.01	1738.91	1738.91	1739.04	1739.09	1739.13	1739.15	1738.95	---	---	---	---
24	1738.98	1738.91	1738.91	1739.04	1739.08	1739.15	1739.14	1738.95	---	---	---	---
25	1738.97	1738.92	1738.92	1739.02	1739.06	1739.15	1739.13	1738.96	---	---	---	---
26	1738.95	1738.95	1738.92	1739.02	1739.07	1739.15	1739.12	1738.95	---	---	---	---
27	1738.94	1738.93	1738.92	1739.03	1739.06	1739.13	1739.11	1738.94	---	---	---	---
28	1738.93	1738.91	1738.95	1739.04	1739.08	1739.16	1739.09	1738.94	---	---	---	---
29	1738.92	1738.91	1738.95	1739.03	---	1739.17	1739.08	1738.94	---	---	---	---
30	1738.92	1738.92	1738.94	1738.99	---	1739.18	1739.06	1738.95	---	---	---	---
31	1738.92	---	1738.93	1738.99	---	1739.17	---	1738.95	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER—351039109270003

STATION NAME—CW-9

LOCATION—Lat 35°10'39", Long 109°27'00", in SW¼SE¼NW¼ sec. 35. T.21 N., R.27 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-27)35bdc3.

LAND SURFACE ALTITUDE—1748.52 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1739.67
2	---	---	---	---	---	---	---	---	---	---	---	1739.67
3	---	---	---	---	---	---	---	---	---	---	---	1739.66
4	---	---	---	---	---	---	---	---	---	---	---	1739.67
5	---	---	---	---	---	---	---	---	---	---	---	1739.66
6	---	---	---	---	---	---	---	---	---	---	---	1739.68
7	---	---	---	---	---	---	---	---	---	---	---	1739.75
8	---	---	---	---	---	---	---	---	---	---	---	1739.75
9	---	---	---	---	---	---	---	---	---	---	---	1739.73
10	---	---	---	---	---	---	---	---	---	---	---	1739.72
11	---	---	---	---	---	---	---	---	---	---	---	1739.71
12	---	---	---	---	---	---	---	---	---	---	---	1739.69
13	---	---	---	---	---	---	---	---	---	---	---	1739.67
14	---	---	---	---	---	---	---	---	---	---	---	1739.67
15	---	---	---	---	---	---	---	---	---	---	---	1739.67
16	---	---	---	---	---	---	---	---	---	---	---	1739.67
17	---	---	---	---	---	---	---	---	---	---	---	1739.67
18	---	---	---	---	---	---	---	---	---	---	---	1739.67
19	---	---	---	---	---	---	---	---	---	---	---	1739.66
20	---	---	---	---	---	---	---	---	---	---	---	1739.65
21	---	---	---	---	---	---	---	---	---	---	---	1739.64
22	---	---	---	---	---	---	---	---	---	---	1739.80	1739.64
23	---	---	---	---	---	---	---	---	---	---	1739.79	1739.63
24	---	---	---	---	---	---	---	---	---	---	1739.78	1739.64
25	---	---	---	---	---	---	---	---	---	---	1739.76	1739.63
26	---	---	---	---	---	---	---	---	---	---	1739.74	1739.63
27	---	---	---	---	---	---	---	---	---	1739.62	1739.73	1739.63
28	---	---	---	---	---	---	---	---	---	1739.74	1739.71	1739.63
29	---	---	---	---	---	---	---	---	---	1739.89	1739.70	1739.63
30	---	---	---	---	---	---	---	---	---	---	1739.69	1739.63
31	---	---	---	---	---	---	---	---	---	---	1739.68	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351039109270003 (CW-9)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1739.63	1739.69	1739.72	1739.76	---	1739.85	1739.80	1739.73	---	---	1739.36	1739.27
2	1739.63	1739.70	1739.71	1739.78	---	1739.85	1739.79	1739.73	---	---	1739.35	1739.27
3	1739.62	1739.70	1739.72	1739.75	---	1739.86	1739.79	1739.74	---	---	1739.34	1739.30
4	1739.66	1739.71	1739.73	1739.75	---	1739.86	1739.80	1739.75	---	---	1739.34	1739.30
5	1739.68	1739.70	1739.74	1739.74	---	1739.87	1739.81	1739.76	---	---	1739.32	1739.29
6	1739.67	1739.70	1739.75	1739.74	---	1739.84	1739.80	1739.77	---	---	1739.32	1739.38
7	1739.67	1739.71	1739.72	1739.75	---	1739.83	1739.80	1739.77	---	---	1739.31	1739.39
8	1739.67	1739.70	1739.72	1739.75	---	1739.83	1739.80	1739.76	---	---	1739.33	1739.36
9	1739.67	1739.69	1739.75	1739.74	1739.81	1739.83	1739.78	1739.73	---	---	1739.32	1739.35
10	1739.66	1739.70	1739.76	1739.75	1739.81	1739.84	1739.77	1739.74	---	---	1739.31	1739.36
11	1739.66	1739.71	1739.73	1739.76	1739.82	1739.86	1739.79	1739.73	---	---	1739.30	1739.33
12	1739.66	1739.72	1739.73	---	1739.84	1739.85	1739.78	1739.72	---	---	1739.29	1739.31
13	1739.66	1739.72	1739.73	---	1739.85	1739.86	1739.76	1739.72	---	---	1739.30	1739.29
14	1739.67	1739.71	1739.73	---	1739.86	1739.86	1739.76	1739.72	---	---	1739.34	1739.28
15	1739.68	1739.69	1739.74	---	1739.83	1739.86	1739.77	1739.71	---	---	1739.47	1739.27
16	1739.66	1739.73	1739.75	---	1739.81	1739.83	1739.76	1739.69	---	---	1739.45	1739.27
17	1739.65	1739.72	1739.75	---	1739.82	1739.84	1739.76	1739.71	---	---	1739.51	1739.26
18	1739.65	1739.71	1739.75	---	1739.82	1739.84	1739.76	---	---	---	1739.48	1739.27
19	1739.65	1739.71	1739.73	---	1739.82	1739.82	1739.75	---	---	---	1739.42	1739.28
20	1739.67	1739.72	1739.73	---	1739.81	1739.82	1739.75	---	---	---	1739.39	1739.29
21	1739.69	1739.73	1739.74	---	1739.82	1739.83	1739.76	---	---	---	1739.41	1739.33
22	1739.69	1739.72	1739.72	---	1739.82	1739.82	1739.76	---	---	---	1739.41	1739.34
23	1739.69	1739.73	1739.72	---	1739.82	1739.81	1739.76	---	---	---	1739.38	1739.39
24	1739.70	1739.74	1739.73	---	1739.83	1739.81	1739.77	---	---	---	1739.34	1739.39
25	1739.71	1739.73	1739.74	---	1739.83	1739.80	1739.76	---	---	---	1739.32	1739.36
26	1739.69	1739.74	1739.75	---	1739.83	1739.80	1739.76	---	---	---	1739.31	1739.34
27	1739.70	1739.72	1739.76	---	1739.83	1739.81	1739.75	---	---	1739.41	1739.29	1739.33
28	1739.69	1739.71	1739.76	---	1739.83	1739.81	1739.76	---	---	1739.39	1739.29	1739.31
29	1739.68	1739.71	1739.77	---	---	1739.80	1739.75	---	---	1739.37	1739.29	1739.29
30	1739.69	1739.72	1739.76	---	---	1739.80	1739.73	---	---	1739.36	1739.28	1739.27
31	1739.69	---	1739.73	---	---	1739.80	---	---	---	1739.37	1739.27	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351039109270003 (CW-9)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO OCTOBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1739.29	---	---	---	---	---	---	---	---	---	---	---
2	1739.30	---	---	---	---	---	---	---	---	---	---	---
3	1739.29	---	---	---	---	---	---	---	---	---	---	---
4	1739.27	---	---	---	---	---	---	---	---	---	---	---
5	1739.28	---	---	---	---	---	---	---	---	---	---	---
6	1739.28	---	---	---	---	---	---	---	---	---	---	---
7	1739.27	---	---	---	---	---	---	---	---	---	---	---
8	1739.25	---	---	---	---	---	---	---	---	---	---	---
9	1739.24	---	---	---	---	---	---	---	---	---	---	---
10	1739.26	---	---	---	---	---	---	---	---	---	---	---
11	1739.25	---	---	---	---	---	---	---	---	---	---	---
12	1739.24	---	---	---	---	---	---	---	---	---	---	---
13	1739.25	---	---	---	---	---	---	---	---	---	---	---
14	1739.24	---	---	---	---	---	---	---	---	---	---	---
15	1739.24	---	---	---	---	---	---	---	---	---	---	---
16	1739.24	---	---	---	---	---	---	---	---	---	---	---
17	1739.22	---	---	---	---	---	---	---	---	---	---	---
18	1739.23	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

ADOT WELL CLUSTER

STATION NUMBER—351140109220403

STATION NAME—AD-3

LOCATION—Lat 35°11'40", Long 109°22'04", in NW¼SW¼NW¼ sec. 27, T.21 N., R.28 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-28)27bcb.

LAND SURFACE ALTITUDE—1765.97 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	1761.30	1761.47
2	---	---	---	---	---	---	---	---	---	---	1761.36	1761.45
3	---	---	---	---	---	---	---	---	---	---	1761.41	1761.45
4	---	---	---	---	---	---	---	---	---	---	1761.44	---
5	---	---	---	---	---	---	---	---	---	---	1761.46	---
6	---	---	---	---	---	---	---	---	---	---	1761.47	---
7	---	---	---	---	---	---	---	---	---	---	1761.48	---
8	---	---	---	---	---	---	---	---	---	---	1761.48	---
9	---	---	---	---	---	---	---	---	---	---	1761.48	---
10	---	---	---	---	---	---	---	---	---	---	1761.48	---
11	---	---	---	---	---	---	---	---	---	---	1761.47	---
12	---	---	---	---	---	---	---	---	---	---	1761.47	---
13	---	---	---	---	---	---	---	---	---	---	1761.47	---
14	---	---	---	---	---	---	---	---	---	---	1761.47	---
15	---	---	---	---	---	---	---	---	---	---	1761.47	---
16	---	---	---	---	---	---	---	---	---	---	1761.46	---
17	---	---	---	---	---	---	---	---	---	---	1761.45	---
18	---	---	---	---	---	---	---	---	---	---	1761.43	---
19	---	---	---	---	---	---	---	---	---	---	1761.44	---
20	---	---	---	---	---	---	---	---	---	---	1761.48	---
21	---	---	---	---	---	---	---	---	---	---	1761.50	---
22	---	---	---	---	---	---	---	---	---	---	1761.51	---
23	---	---	---	---	---	---	---	---	---	---	1761.52	---
24	---	---	---	---	---	---	---	---	---	---	1761.54	---
25	---	---	---	---	---	---	---	---	---	---	1761.53	---
26	---	---	---	---	---	---	---	---	---	---	1761.52	---
27	---	---	---	---	---	---	---	---	---	---	1761.51	---
28	---	---	---	---	---	---	---	---	---	1761.23	1761.50	---
29	---	---	---	---	---	---	---	---	---	1761.24	1761.50	---
30	---	---	---	---	---	---	---	---	---	1761.25	1761.51	---
31	---	---	---	---	---	---	---	---	---	1761.27	1761.49	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

ADOT WELL CLUSTER—Continued

STATION NUMBER 351140109220403 (AD-3)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1760.99	1760.90	1760.94	1760.98	1760.97	1760.83	1760.71	1760.61	1760.80	1760.92
2	---	---	1760.96	1760.94	1760.93	1760.99	1760.94	1760.81	1760.68	1760.61	1760.79	1760.92
3	---	---	1760.97	1760.91	1760.86	1761.00	1760.94	1760.78	1760.68	1760.60	1760.78	1760.91
4	---	---	1760.99	1760.87	1760.91	1761.03	1760.96	1760.77	1760.70	1760.60	1760.77	1760.90
5	---	---	1761.00	1760.87	1760.92	1761.05	1760.96	1760.76	1760.70	1760.59	1760.75	1760.91
6	---	---	1761.02	1760.86	1760.89	1761.03	1760.94	1760.78	1760.69	1760.59	1760.75	1760.93
7	---	---	1760.97	1760.86	1760.91	1761.00	1760.93	1760.80	1760.68	1760.59	1760.75	1760.96
8	---	---	1760.95	1760.87	1760.92	1761.01	1760.93	1760.80	1760.68	1760.58	1760.76	1760.99
9	---	---	1760.98	1760.84	1760.89	1761.02	1760.91	1760.77	1760.68	1760.57	1760.75	1761.00
10	---	---	1761.00	1760.84	1760.88	1761.04	1760.88	1760.80	1760.67	1760.57	1760.75	1761.01
11	---	---	1760.97	1760.85	1760.88	1761.05	1760.91	1760.81	1760.67	1760.57	1760.76	1761.03
12	---	---	1760.95	1760.86	1760.94	1761.04	1760.92	1760.77	1760.68	1760.56	1760.76	1761.04
13	---	---	1760.96	1760.87	1760.97	1761.04	1760.89	1760.77	1760.68	1760.57	1760.76	1761.03
14	---	---	1760.95	1760.88	1761.00	1761.03	1760.88	1760.77	1760.66	1760.62	1760.76	1761.02
15	---	---	1760.97	1760.87	1760.97	1761.03	1760.89	1760.77	1760.67	1760.65	1760.77	1761.03
16	---	---	1760.98	1760.88	1760.93	1760.99	1760.90	1760.74	1760.66	1760.67	1760.79	1761.03
17	---	---	1760.98	1760.89	1760.95	1761.01	1760.90	1760.75	1760.64	1760.68	1760.83	1761.00
18	---	1761.04	1760.97	1760.90	1760.96	1761.01	1760.88	1760.77	1760.64	1760.71	1760.87	1760.98
19	---	1761.03	1760.92	1760.89	1760.97	1760.98	1760.86	1760.77	1760.65	1760.73	1760.89	1760.99
20	---	1761.04	1760.92	1760.86	1760.95	1760.99	1760.85	1760.74	1760.64	1760.75	1760.91	1760.98
21	---	1761.06	1760.91	1760.83	1760.95	1761.01	1760.86	1760.73	1760.64	1760.76	1760.92	1760.96
22	---	1761.03	1760.88	1760.85	1760.94	1761.01	1760.86	1760.73	1760.63	1760.77	1760.95	1760.95
23	---	1761.04	1760.88	1760.87	1760.92	1761.01	1760.88	1760.74	1760.63	1760.78	1760.97	1760.98
24	---	1761.06	1760.88	1760.85	1760.93	1761.02	1760.90	1760.75	1760.63	1760.79	1760.97	1761.02
25	---	1761.04	1760.88	1760.83	1760.95	1761.00	1760.85	1760.73	1760.62	1760.79	1760.97	1761.04
26	---	1761.04	1760.90	1760.89	1760.97	1760.99	1760.84	1760.73	1760.62	1760.79	1760.96	1761.05
27	---	1761.01	1760.91	1760.87	1760.97	1761.02	1760.83	1760.73	1760.63	1760.80	1760.95	1761.07
28	---	1760.99	1760.94	1760.85	1760.97	1761.03	1760.85	1760.75	1760.63	1760.81	1760.95	1761.07
29	---	1760.99	1760.95	1760.90	---	1761.03	1760.86	1760.72	1760.61	1760.80	1760.95	1761.06
30	---	1761.00	1760.92	1760.93	---	1761.00	1760.84	1760.72	1760.60	1760.79	1760.95	1761.03
31	---	---	1760.88	1760.94	---	1760.98	---	1760.72	---	1760.79	1760.93	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

ADOT WELL CLUSTER—Continued

STATION NUMBER 351140109220403 (AD-3)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1761.04	1761.04	1760.98	1760.85	1761.10	1761.35	1761.62	1761.47	1761.13	---	---	---
2	1761.07	1761.05	1760.96	1760.84	1761.12	1761.30	1761.63	1761.47	1761.12	---	---	---
3	1761.03	1761.01	1760.92	1760.85	1761.14	1761.30	1761.64	1761.43	1761.10	---	---	---
4	1761.00	1760.98	1760.92	1760.88	1761.13	1761.38	1761.65	1761.39	---	---	---	---
5	1761.03	1761.04	1760.95	1760.85	1761.15	1761.43	1761.67	1761.36	---	---	---	---
6	1761.05	1761.06	1760.93	1760.82	1761.15	1761.46	1761.70	1761.38	---	---	---	---
7	1761.04	1761.03	1760.92	1760.82	1761.15	1761.47	1761.73	1761.37	---	---	---	---
8	1761.00	1761.01	1760.92	1760.85	1761.18	1761.47	1761.69	1761.36	---	---	---	---
9	1760.97	1760.99	1760.91	1760.89	1761.18	1761.48	1761.67	1761.38	---	---	---	---
10	1761.00	1760.99	1760.92	1760.89	1761.21	1761.52	1761.73	1761.36	---	---	---	---
11	1761.00	1760.99	1760.93	1760.89	1761.21	1761.54	1761.70	1761.31	---	---	---	---
12	1760.98	1761.00	1760.92	1760.92	1761.24	1761.49	1761.64	1761.29	---	---	---	---
13	1760.99	1761.02	1760.93	1760.96	1761.25	1761.51	1761.62	1761.30	---	---	---	---
14	1760.97	1761.03	1760.94	1760.99	1761.25	1761.53	1761.60	1761.31	---	---	---	---
15	1760.96	1761.01	1760.96	1761.03	1761.27	1761.52	1761.62	1761.29	---	---	---	---
16	1760.96	1761.00	1761.00	1761.04	1761.31	1761.49	1761.59	1761.27	---	---	---	---
17	1760.92	1761.02	1760.99	1761.03	1761.34	1761.46	1761.59	1761.26	---	---	---	---
18	1760.92	1761.04	1761.00	1761.05	1761.33	1761.49	1761.57	1761.25	---	---	---	---
19	1760.96	1761.05	1761.05	1761.07	1761.29	1761.54	1761.55	1761.23	---	---	---	---
20	1760.92	1761.05	1761.06	1761.08	1761.29	1761.53	1761.56	1761.24	---	---	---	---
21	1760.92	1761.00	1761.04	1761.08	1761.30	1761.53	1761.57	1761.23	---	---	---	---
22	1760.98	1760.97	1761.01	1761.09	1761.32	1761.46	1761.56	1761.21	---	---	---	---
23	1760.99	1760.97	1760.93	1761.10	1761.33	1761.47	1761.55	1761.19	---	---	---	---
24	1760.99	1760.98	1760.93	1761.08	1761.32	1761.51	1761.54	1761.18	---	---	---	---
25	1761.01	1761.01	1760.95	1761.09	1761.28	1761.53	1761.55	1761.19	---	---	---	---
26	1761.02	1761.07	1760.94	1761.11	1761.30	1761.54	1761.53	1761.19	---	---	---	---
27	1761.00	1761.00	1760.93	1761.13	1761.32	1761.51	1761.52	1761.16	---	---	---	---
28	1761.01	1760.94	1760.97	1761.16	1761.35	1761.52	1761.49	1761.15	---	---	---	---
29	1761.02	1760.93	1760.95	1761.15	---	1761.52	1761.48	1761.15	---	---	---	---
30	1761.01	1760.98	1760.86	1761.08	---	1761.52	1761.44	1761.19	---	---	---	---
31	1761.02	---	1760.85	1761.08	---	1761.55	---	1761.17	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

ADOT WELL CLUSTER—Continued

STATION NUMBER—351139109221301

STATION NAME—AD-5

LOCATION—Lat 35°11'39", Long 109°22'13", in NE¼SE¼NE¼ sec. 28, T.21 E., R.28 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-28)28ada.

LAND SURFACE ALTITUDE—1765.43 meters above mean sea level

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	1761.20	---
24	---	---	---	---	---	---	---	---	---	---	1761.23	---
25	---	---	---	---	---	---	---	---	---	---	1761.22	---
26	---	---	---	---	---	---	---	---	---	---	1761.21	---
27	---	---	---	---	---	---	---	---	---	1760.95	1761.21	---
28	---	---	---	---	---	---	---	---	---	1760.96	1761.21	---
29	---	---	---	---	---	---	---	---	---	---	1761.21	---
30	---	---	---	---	---	---	---	---	---	---	1761.22	---
31	---	---	---	---	---	---	---	---	---	---	1761.20	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

ADOT WELL CLUSTER—Continued

STATION NUMBER 351139109221301 (AD-5)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1760.72	1760.62	1760.65	1760.69	1760.69	1760.57	1760.46	1760.36	1760.52	1760.66
2	---	---	1760.69	1760.67	1760.64	1760.69	1760.67	1760.56	1760.43	1760.36	1760.52	1760.66
3	---	1760.87	1760.70	1760.64	1760.57	1760.71	1760.67	1760.53	1760.43	1760.35	1760.51	1760.65
4	---	1760.88	1760.72	1760.60	1760.62	1760.74	1760.69	1760.51	1760.44	1760.34	1760.51	1760.64
5	---	1760.87	1760.74	1760.60	1760.63	1760.76	1760.69	1760.51	1760.45	1760.34	1760.49	1760.64
6	---	1760.86	1760.76	1760.58	1760.61	1760.74	1760.67	1760.52	1760.44	1760.34	1760.49	1760.65
7	---	1760.87	1760.70	1760.59	1760.63	1760.71	1760.67	1760.55	1760.43	1760.34	1760.50	1760.67
8	---	1760.83	1760.69	1760.60	1760.63	1760.72	1760.67	1760.55	1760.43	1760.33	1760.50	1760.68
9	---	1760.82	1760.72	1760.57	1760.61	1760.73	1760.64	1760.52	1760.42	1760.32	1760.49	1760.69
10	---	1760.82	1760.74	1760.57	1760.60	1760.75	1760.62	1760.55	1760.42	1760.32	1760.49	1760.70
11	---	1760.82	1760.70	1760.58	1760.60	1760.76	1760.64	1760.55	1760.42	1760.31	1760.50	1760.72
12	---	1760.83	1760.69	1760.59	1760.65	1760.76	1760.65	1760.52	1760.43	1760.31	1760.50	1760.73
13	---	1760.83	1760.69	1760.61	1760.68	1760.76	1760.62	1760.51	1760.43	1760.31	1760.50	1760.74
14	---	1760.82	1760.69	1760.61	1760.71	1760.75	1760.61	1760.52	1760.41	1760.35	1760.51	1760.74
15	---	1760.78	1760.70	1760.61	1760.67	1760.74	1760.63	1760.52	1760.42	1760.36	1760.50	1760.75
16	---	1760.81	1760.72	1760.61	1760.64	1760.70	1760.64	1760.49	1760.41	1760.36	1760.51	1760.76
17	---	1760.82	1760.72	1760.61	1760.65	1760.72	1760.64	1760.50	1760.39	1760.37	1760.53	1760.74
18	---	1760.77	1760.71	1760.63	1760.66	1760.72	1760.62	1760.51	1760.39	1760.40	1760.55	1760.72
19	---	1760.76	1760.66	1760.62	1760.68	1760.69	1760.60	1760.52	1760.40	1760.42	1760.56	1760.73
20	---	1760.78	1760.65	1760.58	1760.66	1760.70	1760.59	1760.49	1760.39	1760.43	1760.58	1760.72
21	---	1760.80	1760.65	1760.55	1760.66	1760.72	1760.60	1760.48	1760.39	1760.44	1760.59	1760.70
22	---	1760.77	1760.61	1760.58	1760.64	1760.72	1760.60	1760.48	1760.38	1760.46	1760.62	1760.68
23	---	1760.78	1760.61	1760.59	1760.63	1760.73	1760.62	1760.49	1760.38	1760.47	1760.64	1760.69
24	---	1760.80	1760.62	1760.57	1760.63	1760.73	1760.64	1760.50	1760.37	1760.48	1760.65	1760.72
25	---	1760.78	1760.62	1760.55	1760.66	1760.72	1760.59	1760.48	1760.37	1760.49	1760.66	1760.74
26	---	1760.78	1760.63	1760.61	1760.67	1760.71	1760.58	1760.48	1760.37	1760.49	1760.66	1760.76
27	---	1760.74	1760.65	1760.59	1760.67	1760.74	1760.57	1760.49	1760.37	1760.50	1760.66	1760.78
28	---	1760.71	1760.68	1760.57	1760.67	1760.75	1760.59	1760.51	1760.37	1760.51	1760.67	1760.79
29	---	1760.72	1760.68	1760.62	---	1760.75	1760.60	1760.48	1760.36	1760.51	1760.67	1760.78
30	---	1760.74	1760.65	1760.64	---	1760.73	1760.58	1760.46	1760.35	1760.51	1760.67	1760.76
31	---	---	1760.61	1760.65	---	1760.71	---	1760.47	---	1760.52	1760.67	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

ADOT WELL CLUSTER—Continued

STATION NUMBER 351139109221301 (AD-5)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1760.77	1760.78	1760.72	1760.60	1760.81	1761.09	---	1761.14	1760.88	---	---	---
2	1760.80	1760.79	1760.70	1760.60	1760.82	1761.02	---	1761.13	1760.87	---	---	---
3	1760.76	1760.75	1760.66	1760.61	1760.84	1760.99	---	1761.11	1760.87	---	---	---
4	1760.72	1760.72	1760.66	1760.64	1760.83	1761.06	---	1761.10	1760.87	---	---	---
5	1760.75	1760.77	1760.69	1760.61	1760.85	1761.10	---	1761.09	---	---	---	---
6	1760.77	1760.78	1760.67	1760.58	1760.85	1761.12	---	1761.08	---	---	---	---
7	1760.77	1760.75	1760.66	1760.58	1760.86	---	---	1761.07	---	---	---	---
8	1760.73	1760.73	1760.66	1760.61	1760.87	---	---	1761.06	---	---	---	---
9	1760.71	1760.71	1760.66	1760.63	1760.88	---	---	1761.06	---	---	---	---
10	1760.74	1760.71	1760.66	1760.62	1760.90	---	---	1761.05	---	---	---	---
11	1760.75	1760.71	1760.68	1760.60	1760.91	---	1761.27	1761.03	---	---	---	---
12	1760.73	1760.71	1760.68	1760.62	1760.94	---	1761.25	1761.03	---	---	---	---
13	1760.74	1760.74	1760.68	1760.67	1760.94	---	1761.25	1761.02	---	---	---	---
14	1760.72	1760.76	1760.68	1760.69	1760.94	---	1761.24	1761.01	---	---	---	---
15	1760.71	1760.74	1760.68	1760.73	1760.97	---	1761.24	1761.00	---	---	---	---
16	1760.71	1760.73	1760.72	1760.74	1761.00	---	1761.23	1760.99	---	---	---	---
17	1760.67	1760.75	1760.71	1760.73	1761.03	---	1761.22	1760.98	---	---	---	---
18	1760.67	1760.77	1760.71	1760.75	1761.02	---	1761.22	1760.98	---	---	---	---
19	1760.72	1760.78	1760.77	1760.78	1760.97	---	1761.22	1760.96	---	---	---	---
20	1760.68	1760.79	1760.78	1760.79	1760.98	---	1761.22	1760.96	---	---	---	---
21	1760.65	1760.74	1760.76	1760.79	1761.00	---	1761.21	1760.95	---	---	---	---
22	1760.68	1760.71	1760.73	1760.81	1761.03	---	1761.21	1760.95	---	---	---	---
23	1760.69	1760.70	1760.65	1760.81	1761.05	---	1761.20	1760.94	---	---	---	---
24	1760.68	1760.72	1760.66	1760.81	1761.04	---	1761.19	1760.93	---	---	---	---
25	1760.70	1760.75	1760.68	1760.81	1761.01	---	1761.19	1760.93	---	---	---	---
26	1760.72	1760.81	1760.68	1760.82	1761.03	---	1761.19	1760.92	---	---	---	---
27	1760.72	1760.73	1760.67	1760.85	1761.06	---	1761.18	1760.92	---	---	---	---
28	1760.72	1760.67	1760.73	1760.87	1761.09	---	1761.18	1760.90	---	---	---	---
29	1760.73	1760.67	1760.71	1760.86	---	---	1761.17	1760.90	---	---	---	---
30	1760.73	1760.71	1760.61	1760.79	---	---	1761.15	1760.90	---	---	---	---
31	1760.75	---	1760.60	1760.79	---	---	---	1760.89	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER

STATION NUMBER—351411109170703

STATION NAME—CP-3

LOCATION—Lat 35°14'11", Long 109°17'07", in SE¼NW¼NE¼ sec.8, T.21 N., 29 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-29)08abc3.

LAND SURFACE ALTITUDE—1792.17 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	1787.03	---
2	---	---	---	---	---	---	---	---	---	---	1787.04	---
3	---	---	---	---	---	---	---	---	---	---	1787.05	---
4	---	---	---	---	---	---	---	---	---	1786.72	1787.03	---
5	---	---	---	---	---	---	---	---	---	1786.71	1787.00	---
6	---	---	---	---	---	---	---	---	---	1786.71	1786.98	---
7	---	---	---	---	---	---	---	---	---	1786.71	1786.96	---
8	---	---	---	---	---	---	---	---	---	1786.71	1786.94	---
9	---	---	---	---	---	---	---	---	---	1786.71	1786.93	---
10	---	---	---	---	---	---	---	---	---	1786.71	1786.95	---
11	---	---	---	---	---	---	---	---	---	1786.71	1786.94	---
12	---	---	---	---	---	---	---	---	---	1786.70	1786.93	---
13	---	---	---	---	---	---	---	---	---	---	1786.91	---
14	---	---	---	---	---	---	---	---	---	---	1786.90	---
15	---	---	---	---	---	---	---	---	---	---	1786.89	---
16	---	---	---	---	---	---	---	---	---	---	1786.88	---
17	---	---	---	---	---	---	---	---	---	---	1786.87	---
18	---	---	---	---	---	---	---	---	---	---	1786.91	---
19	---	---	---	---	---	---	---	---	---	---	1787.03	---
20	---	---	---	---	---	---	---	---	---	---	1787.06	---
21	---	---	---	---	---	---	---	---	---	---	1787.03	---
22	---	---	---	---	---	---	---	---	---	---	1787.01	---
23	---	---	---	---	---	---	---	---	---	---	1786.99	---
24	---	---	---	---	---	---	---	---	---	---	1786.97	---
25	---	---	---	---	---	---	---	---	---	---	1786.95	---
26	---	---	---	---	---	---	---	---	---	---	1786.94	---
27	---	---	---	---	---	---	---	---	---	---	1786.92	---
28	---	---	---	---	---	---	---	---	---	---	1786.91	---
29	---	---	---	---	---	---	---	---	---	---	1786.90	---
30	---	---	---	---	---	---	---	---	---	---	1786.89	---
31	---	---	---	---	---	---	---	---	---	1786.96	1786.88	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER 351411109170703 (CP-3)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	1786.78	1786.85	1786.94	1787.04	1786.93	1786.84	---	---	1786.77	1786.75
2	---	---	1786.77	1786.86	1786.94	1787.05	1786.92	1786.84	---	---	1786.76	1786.75
3	---	---	1786.77	1786.86	1786.94	1787.05	1786.92	1786.85	---	---	1786.76	1786.78
4	---	---	1786.77	1786.86	1786.94	1787.06	1786.92	1786.89	---	---	1786.76	1786.80
5	---	---	1786.78	1786.86	1786.94	1787.06	1786.95	1786.89	---	---	1786.75	1786.79
6	---	---	1786.79	1786.86	1786.95	1787.05	1786.96	1786.90	---	---	1786.75	1786.84
7	---	---	1786.80	1786.85	1786.96	1787.05	1786.97	1786.90	---	---	1786.74	1786.86
8	---	---	1786.80	1786.84	1786.96	1787.05	1786.97	1786.89	---	---	1786.74	1786.85
9	---	---	1786.80	1786.84	1786.96	1787.04	1786.97	1786.87	---	---	1786.73	1786.86
10	---	---	1786.80	1786.84	1786.97	1787.05	1786.97	1786.86	---	---	1786.73	1786.87
11	---	---	1786.80	1786.86	1786.98	1787.07	1786.96	1786.84	---	---	1786.73	1786.86
12	---	---	1786.80	1786.86	1786.99	1787.07	1786.95	1786.84	---	---	1786.72	1786.84
13	---	---	1786.80	1786.87	1787.00	1787.08	1786.93	1786.84	---	---	1786.72	1786.83
14	---	---	1786.80	1786.88	1787.00	1787.07	1786.92	1786.83	---	---	1786.74	1786.81
15	---	---	1786.80	1786.89	1787.00	1787.07	1786.91	1786.83	---	---	1786.82	1786.79
16	---	1786.77	1786.81	1786.89	1786.99	1787.06	1786.90	---	---	---	1786.85	1786.77
17	---	1786.77	1786.81	1786.89	1787.00	1787.06	1786.90	---	---	---	1786.88	1786.76
18	---	1786.76	1786.81	1786.90	1787.00	1787.07	1786.89	---	---	---	1786.88	1786.78
19	---	1786.77	1786.81	1786.90	1787.00	1787.06	1786.88	---	---	---	1786.87	1786.80
20	---	1786.77	1786.81	1786.90	1787.01	1787.05	1786.87	---	---	---	1786.85	1786.83
21	---	1786.77	1786.81	1786.90	1787.02	1787.05	1786.87	---	---	---	1786.88	1786.87
22	---	1786.77	1786.81	1786.90	1787.02	1787.04	1786.87	---	---	---	1786.88	1786.89
23	---	1786.78	1786.83	1786.90	1787.02	1787.02	1786.86	---	---	---	1786.86	1786.92
24	---	1786.78	1786.83	1786.91	1787.02	1787.01	1786.86	---	---	---	1786.84	1786.93
25	---	1786.78	1786.83	1786.91	1787.03	1786.99	1786.85	---	---	---	1786.82	1786.91
26	---	1786.80	1786.83	1786.92	1787.03	1786.98	1786.84	---	---	---	1786.81	1786.91
27	---	1786.80	1786.84	1786.92	1787.03	1786.97	1786.86	---	---	1786.81	1786.80	1786.90
28	---	1786.79	1786.84	1786.93	1787.03	1786.96	1786.87	---	---	1786.80	1786.78	1786.89
29	---	1786.79	1786.84	1786.93	---	1786.95	1786.87	---	---	1786.79	1786.78	1786.88
30	---	1786.78	1786.84	1786.93	---	1786.94	1786.86	---	---	1786.78	1786.77	1786.87
31	---	---	1786.84	1786.93	---	1786.94	---	---	---	1786.78	1786.76	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER 351411109170703 (CP-3)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1786.88	1786.93	1786.96	1787.03	1787.17	1787.20	1787.21	1786.95	1786.73	---	---	---
2	1786.90	1786.97	1786.97	1787.02	1787.17	1787.24	1787.20	1786.94	1786.73	---	---	---
3	1786.91	1787.01	1786.98	1787.02	1787.17	1787.24	1787.21	1786.91	1786.72	---	---	---
4	1786.90	1786.99	1786.99	1787.05	1787.17	1787.23	1787.20	1786.90	---	---	---	---
5	1786.88	1786.99	1786.99	1787.11	1787.18	1787.24	1787.21	1786.89	---	---	---	---
6	1786.87	1786.98	1786.98	1787.14	1787.17	1787.26	1787.21	1786.88	---	---	---	---
7	1786.87	1787.01	1786.98	1787.19	1787.19	1787.24	1787.20	1786.87	---	---	---	---
8	1786.85	1787.00	1786.98	1787.20	1787.20	1787.20	1787.18	1786.86	---	---	---	---
9	1786.84	1787.01	1786.97	1787.20	1787.21	1787.20	1787.17	1786.85	---	---	---	---
10	1786.83	1787.00	1786.97	1787.19	1787.22	1787.20	1787.16	1786.84	---	---	---	---
11	1786.82	1787.00	1786.99	1787.18	1787.23	1787.19	1787.14	1786.83	---	---	---	---
12	1786.81	1786.99	1786.99	1787.18	1787.23	1787.17	1787.16	1786.82	---	---	---	---
13	1786.81	1786.98	1787.03	1787.18	1787.23	1787.17	1787.15	1786.81	---	---	---	---
14	1786.80	1786.98	1787.03	1787.19	1787.23	1787.19	1787.14	1786.81	---	---	---	---
15	1786.79	1786.96	1787.03	1787.19	1787.22	1787.19	1787.12	1786.80	---	---	---	---
16	1786.78	1786.96	1787.08	1787.18	1787.21	1787.20	1787.10	1786.80	---	---	---	---
17	1786.77	1786.95	1787.06	1787.18	1787.23	1787.19	1787.11	1786.79	---	---	---	---
18	1786.76	1786.94	1787.05	1787.17	1787.23	1787.19	1787.13	1786.78	---	---	---	---
19	1786.76	1786.94	1787.04	1787.18	1787.19	1787.19	1787.13	1786.78	---	---	---	---
20	1786.91	1786.94	1787.04	1787.19	1787.19	1787.19	1787.13	1786.77	---	---	---	---
21	1786.99	1786.94	1787.03	1787.19	1787.17	1787.20	1787.13	1786.77	---	---	---	---
22	1786.99	1786.93	1787.03	1787.18	1787.17	1787.20	1787.12	1786.76	---	---	---	---
23	1786.99	1786.94	1787.02	1787.17	1787.17	1787.20	1787.12	1786.76	---	---	---	---
24	1786.98	1786.94	1787.03	1787.18	1787.16	1787.19	1787.11	1786.75	---	---	---	---
25	1786.97	1786.95	1787.03	1787.18	1787.15	1787.18	1787.11	1786.75	---	---	---	---
26	1786.96	1786.97	1787.02	1787.18	1787.15	1787.18	1787.10	1786.75	---	---	---	---
27	1786.95	1786.98	1787.02	1787.18	1787.14	1787.19	1787.10	1786.74	---	---	---	---
28	1786.94	1786.97	1787.02	1787.18	1787.17	1787.21	1787.08	1786.74	---	---	---	---
29	1786.94	1786.97	1787.03	1787.17	---	1787.23	1787.05	1786.73	---	---	---	---
30	1786.94	1786.97	1787.06	1787.16	---	1787.24	1786.98	1786.73	---	---	---	---
31	1786.94	---	1787.04	1787.17	---	1787.22	---	1786.73	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER—351415109170201

STATION NAME—CP-4

LOCATION—Lat 35°14'15", Long 109°17'02", in SE¼NW¼NE¼ sec. 8, T.21 N., R.29 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-29)8abc4.

LAND SURFACE ALTITUDE—1792.11 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1787.05
2	---	---	---	---	---	---	---	---	---	---	---	1787.04
3	---	---	---	---	---	---	---	---	---	---	---	1787.04
4	---	---	---	---	---	---	---	---	---	1786.93	---	1787.04
5	---	---	---	---	---	---	---	---	---	1786.92	---	1787.03
6	---	---	---	---	---	---	---	---	---	1786.92	---	1787.06
7	---	---	---	---	---	---	---	---	---	1786.91	---	1787.08
8	---	---	---	---	---	---	---	---	---	1786.91	---	1787.07
9	---	---	---	---	---	---	---	---	---	1786.91	---	1787.06
10	---	---	---	---	---	---	---	---	---	1786.91	---	1787.06
11	---	---	---	---	---	---	---	---	---	1786.90	---	1787.04
12	---	---	---	---	---	---	---	---	---	1786.90	---	1787.04
13	---	---	---	---	---	---	---	---	---	---	---	1787.03
14	---	---	---	---	---	---	---	---	---	---	---	1787.02
15	---	---	---	---	---	---	---	---	---	---	---	1787.01
16	---	---	---	---	---	---	---	---	---	---	---	1787.01
17	---	---	---	---	---	---	---	---	---	---	---	1787.01
18	---	---	---	---	---	---	---	---	---	---	---	1787.00
19	---	---	---	---	---	---	---	---	---	---	---	1787.00
20	---	---	---	---	---	---	---	---	---	---	---	1786.99
21	---	---	---	---	---	---	---	---	---	---	---	1786.99
22	---	---	---	---	---	---	---	---	---	---	---	1786.98
23	---	---	---	---	---	---	---	---	---	---	1787.14	1786.97
24	---	---	---	---	---	---	---	---	---	---	1787.13	1786.97
25	---	---	---	---	---	---	---	---	---	---	1787.12	1786.97
26	---	---	---	---	---	---	---	---	---	---	1787.10	1786.96
27	---	---	---	---	---	---	---	---	---	---	1787.09	1786.96
28	---	---	---	---	---	---	---	---	---	---	1787.09	1786.96
29	---	---	---	---	---	---	---	---	---	---	1787.07	1786.96
30	---	---	---	---	---	---	---	---	---	---	1787.07	1786.95
31	---	---	---	---	---	---	---	---	---	---	1787.06	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER 351415109170201 (CP-4)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1786.94	1786.90	1786.93	1786.97	1787.03	1787.12	1787.07	1787.00	1786.93	1786.84	1786.99	1786.94
2	1786.94	---	1786.93	1786.97	1787.04	1787.12	1787.06	1786.99	1786.91	1786.84	1786.98	1786.94
3	1786.94	---	1786.92	1786.97	1787.04	1787.12	1787.06	1787.00	1786.91	1786.84	1786.97	1786.96
4	1786.94	---	1786.93	1786.97	1787.04	1787.13	1787.06	1787.00	1786.91	1786.83	1786.97	1786.96
5	1786.94	---	1786.93	1786.97	1787.04	1787.13	1787.07	1787.01	1786.91	1786.83	1786.96	1786.96
6	1786.93	---	1786.93	1786.97	1787.04	1787.13	1787.07	1787.02	1786.90	1786.83	1786.96	1786.98
7	1786.93	---	1786.93	1786.97	1787.05	1787.13	1787.07	1787.02	1786.90	1786.83	1786.96	1787.00
8	1786.93	---	1786.93	1786.97	1787.05	1787.13	1787.08	1787.01	1786.90	1786.83	1786.95	1787.00
9	1786.93	---	1786.93	1786.97	1787.05	1787.13	1787.08	1787.01	1786.90	1786.86	1786.94	1787.02
10	1786.93	---	1786.94	1786.97	1787.06	1787.13	1787.08	1787.00	1786.89	1786.87	1786.94	1787.02
11	1786.93	---	1786.94	1786.97	1787.07	1787.14	1787.08	1787.00	1786.89	1786.90	1786.94	1787.02
12	1786.93	---	1786.94	1786.98	1787.07	1787.14	1787.07	1786.99	1786.89	1786.92	1786.93	1787.01
13	1786.93	---	1786.94	1786.99	1787.08	1787.15	1787.07	1786.99	1786.89	1786.94	1786.93	1787.01
14	1786.93	---	1786.94	1786.99	1787.09	1787.15	1787.06	1786.99	1786.88	1786.99	1786.93	1786.99
15	1786.93	---	1786.94	1786.99	1787.09	1787.15	1787.05	1786.98	1786.88	1787.00	1786.96	1786.98
16	1786.92	---	1786.94	1787.00	1787.08	1787.14	1787.05	1786.97	1786.87	1787.02	1786.99	1786.97
17	1786.91	---	1786.94	1787.00	1787.09	1787.15	1787.04	1786.97	1786.87	1787.02	1787.01	1786.96
18	1786.91	1786.91	1786.94	1787.00	1787.09	1787.15	1787.04	1786.97	1786.87	1787.04	1787.02	1786.96
19	1786.91	1786.91	1786.94	1787.00	1787.09	1787.14	1787.03	1786.97	1786.87	1787.05	1787.02	1786.96
20	1786.90	1786.92	1786.94	1787.00	1787.09	1787.14	1787.03	1786.96	1786.86	1787.05	1787.01	1786.98
21	1786.90	1786.92	1786.94	1787.01	1787.09	1787.14	1787.02	1786.96	1786.86	1787.06	1787.02	1787.01
22	1786.90	1786.92	1786.94	1787.01	1787.10	1787.13	1787.02	1786.96	1786.86	1787.06	1787.04	1787.02
23	1786.91	1786.93	1786.95	1787.02	1787.10	1787.13	1787.02	1786.96	1786.86	1787.05	1787.03	1787.05
24	1786.91	1786.93	1786.96	1787.02	1787.10	1787.12	1787.01	1786.94	1786.86	1787.05	1787.02	1787.06
25	1786.91	1786.93	1786.96	1787.02	1787.10	1787.11	1787.01	1786.94	1786.86	1787.05	1787.01	1787.06
26	1786.91	1786.93	1786.96	1787.02	1787.10	1787.10	1787.01	1786.94	1786.86	1787.04	1787.00	1787.06
27	---	1786.93	1786.96	1787.02	1787.11	1787.10	1787.00	1786.94	1786.84	1787.03	1786.98	1787.06
28	---	1786.93	1786.96	1787.02	1787.12	1787.09	1787.01	1786.94	1786.84	1787.02	1786.98	1787.06
29	1786.91	1786.93	1786.97	1787.02	---	1787.09	1787.01	1786.93	1786.84	1787.01	1786.97	1787.04
30	1786.90	1786.93	1786.97	1787.03	---	1787.07	1787.00	1786.93	1786.84	1787.00	1786.96	1787.04
31	1786.90	---	1786.97	1787.03	---	1787.07	---	1786.93	---	1786.99	1786.95	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER 351415109170201 (CP-4)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1787.04	1787.05	1787.07	1787.15	1787.29	1787.32	1787.35	1787.15	1786.94	---	---	---
2	1787.05	1787.07	1787.08	1787.14	1787.29	1787.35	1787.34	1787.13	1786.94	---	---	---
3	1787.06	1787.10	1787.09	1787.13	1787.29	1787.35	1787.34	1787.11	1786.93	---	---	---
4	1787.05	1787.09	1787.09	1787.15	1787.29	1787.35	1787.33	1787.10	---	---	---	---
5	1787.05	1787.09	1787.09	1787.18	1787.30	1787.36	1787.33	1787.09	---	---	---	---
6	1787.04	1787.09	1787.09	1787.21	1787.30	1787.37	1787.33	1787.08	---	---	---	---
7	1787.03	1787.10	1787.09	1787.25	1787.31	1787.36	1787.33	1787.07	---	---	---	---
8	1787.01	1787.10	1787.09	1787.27	1787.32	1787.34	1787.31	1787.07	---	---	---	---
9	1787.01	1787.11	1787.09	1787.28	1787.33	1787.33	1787.29	1787.06	---	---	---	---
10	1787.00	1787.11	1787.09	1787.29	1787.33	1787.33	1787.29	1787.05	---	---	---	---
11	1786.99	1787.10	1787.09	1787.29	1787.33	1787.32	1787.27	1787.04	---	---	---	---
12	1786.98	1787.10	1787.09	1787.29	1787.34	1787.30	1787.26	1787.03	---	---	---	---
13	1786.98	1787.10	1787.12	1787.29	1787.33	1787.30	1787.26	1787.03	---	---	---	---
14	1786.97	1787.09	1787.13	1787.30	1787.35	1787.31	1787.25	1787.02	---	---	---	---
15	1786.96	1787.09	1787.13	1787.30	1787.35	1787.31	1787.24	1787.01	---	---	---	---
16	1786.96	1787.08	1787.16	1787.30	1787.34	1787.32	1787.23	1787.01	---	---	---	---
17	1786.95	1787.07	1787.16	1787.30	1787.35	1787.31	1787.22	1787.00	---	---	---	---
18	1786.94	1787.07	1787.15	1787.30	1787.34	1787.32	1787.23	1786.99	---	---	---	---
19	1786.94	1787.07	1787.15	1787.30	1787.32	1787.32	1787.23	1786.99	---	---	---	---
20	1787.02	1787.07	1787.15	1787.30	1787.32	1787.32	1787.24	1786.99	---	---	---	---
21	1787.08	1787.06	1787.14	1787.30	1787.31	1787.32	1787.24	1786.98	---	---	---	---
22	1787.09	1787.05	1787.14	1787.30	1787.30	1787.32	1787.23	1786.97	---	---	---	---
23	1787.09	1787.06	1787.13	1787.29	1787.30	1787.33	1787.23	1786.97	---	---	---	---
24	1787.08	1787.06	1787.14	1787.29	1787.29	1787.32	1787.22	1786.97	---	---	---	---
25	1787.07	1787.06	1787.14	1787.30	1787.28	1787.32	1787.22	1786.96	---	---	---	---
26	1787.07	1787.08	1787.14	1787.30	1787.28	1787.32	1787.22	1786.96	---	---	---	---
27	1787.07	1787.09	1787.13	1787.30	1787.28	1787.31	1787.21	1786.96	---	---	---	---
28	1787.06	1787.09	1787.13	1787.30	1787.29	1787.33	1787.20	1786.95	---	---	---	---
29	1787.06	1787.09	1787.14	1787.29	---	1787.35	1787.18	1786.94	---	---	---	---
30	1787.06	1787.08	1787.16	1787.28	---	1787.35	1787.16	1786.94	---	---	---	---
31	1787.05	---	1787.16	1787.28	---	1787.35	---	1786.94	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER—351410109170201

STATION NAME—CP-5

LOCATION—Lat 35°14'01' Long 109°17'02", in SE¼SE¼NE¼ sec. 8, T.21 N., R.29 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-21-29)8add1.

LAND SURFACE ALTITUDE—1791.71 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1786.71
2	---	---	---	---	---	---	---	---	---	---	---	1786.71
3	---	---	---	---	---	---	---	---	---	---	---	1786.70
4	---	---	---	---	---	---	---	---	---	1786.67	---	1786.70
5	---	---	---	---	---	---	---	---	---	1786.67	---	1786.70
6	---	---	---	---	---	---	---	---	---	1786.66	---	1786.70
7	---	---	---	---	---	---	---	---	---	1786.66	---	1786.70
8	---	---	---	---	---	---	---	---	---	1786.66	---	1786.71
9	---	---	---	---	---	---	---	---	---	1786.65	---	1786.71
10	---	---	---	---	---	---	---	---	---	1786.65	---	1786.71
11	---	---	---	---	---	---	---	---	---	1786.65	---	1786.71
12	---	---	---	---	---	---	---	---	---	1786.65	---	1786.70
13	---	---	---	---	---	---	---	---	---	1786.65	---	1786.70
14	---	---	---	---	---	---	---	---	---	1786.65	---	1786.69
15	---	---	---	---	---	---	---	---	---	1786.65	---	1786.68
16	---	---	---	---	---	---	---	---	---	1786.64	---	1786.68
17	---	---	---	---	---	---	---	---	---	1786.64	---	1786.68
18	---	---	---	---	---	---	---	---	---	1786.64	---	1786.68
19	---	---	---	---	---	---	---	---	---	1786.63	---	1786.68
20	---	---	---	---	---	---	---	---	---	1786.63	---	---
21	---	---	---	---	---	---	---	---	---	---	---	1786.67
22	---	---	---	---	---	---	---	---	---	---	1786.76	1786.67
23	---	---	---	---	---	---	---	---	---	---	1786.76	1786.67
24	---	---	---	---	---	---	---	---	---	---	1786.76	1786.66
25	---	---	---	---	---	---	---	---	---	---	1786.76	1786.66
26	---	---	---	---	---	---	---	---	---	---	1786.75	1786.65
27	---	---	---	---	---	---	---	---	---	---	1786.74	1786.65
28	---	---	---	---	---	---	---	---	---	---	1786.74	1786.65
29	---	---	---	---	---	---	---	---	---	---	1786.73	1786.65
30	---	---	---	---	---	---	---	---	---	---	1786.73	1786.65
31	---	---	---	---	---	---	---	---	---	---	1786.72	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER 351410109170201 (CP-5)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1786.65	---	1786.64	1786.78	1786.71	---	1786.76	---	1786.65	1786.57	1786.61	1786.60
2	1786.65	---	1786.63	1786.78	1786.71	---	1786.76	---	1786.64	1786.57	1786.60	1786.60
3	1786.64	---	1786.63	1786.78	1786.71	---	---	---	1786.64	1786.57	1786.60	1786.60
4	1786.64	---	1786.63	1786.78	1786.73	---	---	1786.71	1786.64	1786.57	1786.60	1786.60
5	1786.64	---	1786.63	1786.79	1786.73	---	---	1786.72	1786.63	1786.55	1786.60	1786.60
6	1786.63	---	1786.64	1786.80	---	---	---	1786.73	1786.63	1786.55	1786.59	1786.61
7	1786.63	---	1786.63	1786.80	---	1786.80	---	1786.73	1786.63	1786.55	1786.58	1786.62
8	1786.63	---	1786.63	1786.81	---	1786.80	---	1786.73	1786.62	1786.55	1786.58	1786.63
9	1786.63	---	1786.63	1786.82	---	1786.81	---	1786.72	1786.62	1786.56	1786.58	1786.63
10	1786.63	---	1786.63	1786.83	---	1786.81	---	1786.71	1786.62	1786.57	1786.58	1786.63
11	1786.63	---	1786.63	1786.83	---	1786.81	---	1786.71	1786.61	1786.58	1786.58	1786.63
12	1786.63	---	1786.63	1786.83	---	1786.81	---	1786.71	1786.61	1786.58	1786.58	1786.64
13	1786.63	---	1786.63	1786.84	---	1786.81	---	1786.71	1786.61	1786.60	1786.58	1786.63
14	1786.63	---	1786.64	1786.84	---	1786.81	---	1786.70	1786.60	1786.61	1786.58	1786.63
15	1786.63	---	1786.65	1786.84	---	1786.81	---	1786.70	1786.60	1786.62	1786.58	1786.62
16	1786.63	---	1786.65	1786.84	---	1786.81	---	1786.70	1786.60	1786.63	1786.60	1786.62
17	1786.63	---	1786.65	1786.76	---	1786.82	---	1786.70	1786.60	1786.63	1786.61	1786.61
18	1786.62	1786.62	1786.65	1786.68	---	1786.83	---	1786.69	1786.60	1786.63	1786.62	1786.61
19	1786.62	1786.63	1786.65	1786.68	---	1786.82	---	1786.68	1786.60	1786.63	1786.63	1786.61
20	1786.62	1786.63	1786.65	1786.68	---	1786.83	---	1786.68	1786.60	1786.63	1786.63	1786.61
21	1786.62	1786.63	1786.65	1786.69	---	1786.82	---	1786.68	1786.59	1786.63	1786.63	1786.62
22	1786.62	1786.63	1786.65	1786.70	---	1786.81	---	1786.68	1786.58	1786.64	1786.64	1786.63
23	1786.62	1786.63	1786.65	1786.70	---	1786.81	---	1786.67	1786.58	1786.64	1786.65	1786.64
24	1786.62	1786.63	1786.65	1786.70	---	1786.81	---	1786.67	1786.58	1786.63	1786.65	1786.65
25	1786.63	1786.63	1786.66	1786.70	---	1786.81	---	1786.67	1786.58	1786.63	1786.64	1786.65
26	1786.62	1786.63	1786.66	1786.70	---	1786.80	---	1786.66	1786.58	1786.63	1786.64	1786.66
27	---	1786.63	1786.66	1786.70	---	1786.80	---	1786.66	1786.58	1786.63	1786.63	1786.66
28	---	1786.63	1786.66	1786.71	---	1786.79	---	1786.66	1786.58	1786.63	1786.62	1786.66
29	---	1786.63	1786.67	1786.71	---	1786.78	---	1786.65	1786.57	1786.62	1786.62	1786.66
30	---	1786.64	1786.67	1786.71	---	1786.78	---	1786.65	1786.57	1786.62	1786.61	1786.66
31	---	---	1786.67	1786.71	---	1786.77	---	1786.65	---	1786.61	1786.61	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

CEDAR POINT WELL CLUSTER—Continued

STATION NUMBER 351410109170201 (CP-5)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1786.66	---	1786.71	1786.76	1786.86	1786.89	1786.91	---	---	---	---	---
2	1786.66	---	1786.71	1786.76	1786.86	1786.89	1786.91	---	---	---	---	---
3	1786.66	---	1786.71	1786.76	1786.86	1786.89	1786.91	---	---	---	---	---
4	1786.67	1786.70	1786.71	1786.76	1786.86	1786.90	1786.91	---	---	---	---	---
5	1786.67	1786.70	1786.71	1786.77	1786.86	1786.90	1786.92	---	---	---	---	---
6	1786.67	1786.70	1786.72	1786.77	1786.86	1786.90	1786.92	---	---	---	---	---
7	1786.67	1786.71	1786.73	1786.78	1786.86	1786.90	1786.92	---	---	---	---	---
8	1786.66	1786.71	1786.73	1786.80	1786.86	1786.90	1786.91	---	---	---	---	---
9	1786.65	1786.71	1786.73	1786.80	1786.87	1786.90	1786.90	---	---	---	---	---
10	1786.65	1786.71	1786.73	1786.81	1786.87	1786.90	1786.91	---	---	---	---	---
11	1786.65	1786.71	1786.73	1786.81	1786.87	1786.90	---	---	---	---	---	---
12	1786.65	1786.71	1786.73	1786.81	1786.87	1786.90	---	---	---	---	---	---
13	1786.65	1786.71	1786.73	1786.83	1786.88	1786.90	---	---	---	---	---	---
14	1786.64	1786.71	1786.73	1786.83	1786.89	1786.90	---	---	---	---	---	---
15	1786.63	1786.71	1786.73	1786.83	1786.89	1786.90	---	---	---	---	---	---
16	1786.63	1786.71	1786.74	1786.83	1786.89	1786.90	---	---	---	---	---	---
17	---	1786.71	1786.74	1786.83	1786.89	1786.90	---	---	---	---	---	---
18	---	1786.71	1786.75	1786.84	1786.89	1786.90	---	---	---	---	---	---
19	---	1786.71	1786.75	1786.84	1786.89	1786.90	---	---	---	---	---	---
20	---	1786.71	1786.75	1786.84	1786.89	1786.90	---	---	---	---	---	---
21	---	1786.71	1786.75	1786.84	1786.89	1786.90	---	---	---	---	---	---
22	---	1786.71	1786.76	1786.84	1786.89	1786.90	---	---	---	---	---	---
23	---	1786.71	1786.75	1786.84	1786.89	1786.90	---	---	---	---	---	---
24	---	1786.71	1786.76	1786.84	1786.88	1786.90	---	---	---	---	---	---
25	---	1786.71	1786.76	1786.84	1786.87	1786.90	---	---	---	---	---	---
26	---	1786.71	1786.76	1786.85	1786.87	1786.90	---	---	---	---	---	---
27	---	1786.71	1786.76	1786.86	1786.87	1786.90	---	---	---	---	---	---
28	---	1786.71	1786.76	1786.86	1786.87	1786.90	---	---	---	---	---	---
29	---	1786.71	1786.76	1786.86	---	1786.91	---	---	---	---	---	---
30	---	1786.71	1786.76	1786.85	---	1786.91	---	---	---	---	---	---
31	---	---	1786.76	1786.86	---	1786.91	---	---	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

QUERINO ROAD WELL CLUSTER

STATION NUMBER—351519109161502

STATION NAME—QR-2

LOCATION—Lat 35°15'19", Long 109°16'15", in SE¼SE¼SW¼ sec. 33, T.22 N., R.29 E., Apache County, Arizona.

ARIZONA WELL NUMBER—(A-22-29)33cdd2.

LAND SURFACE ALTITUDE—1796.61 meters above mean sea level.

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, JULY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	1793.46
2	---	---	---	---	---	---	---	---	---	1793.26	---	1793.45
3	---	---	---	---	---	---	---	---	---	1793.25	---	1793.44
4	---	---	---	---	---	---	---	---	---	1793.25	---	1793.43
5	---	---	---	---	---	---	---	---	---	1793.24	---	1793.43
6	---	---	---	---	---	---	---	---	---	1793.25	---	1793.51
7	---	---	---	---	---	---	---	---	---	1793.24	---	1793.59
8	---	---	---	---	---	---	---	---	---	1793.24	---	1793.60
9	---	---	---	---	---	---	---	---	---	1793.24	---	1793.59
10	---	---	---	---	---	---	---	---	---	---	---	1793.57
11	---	---	---	---	---	---	---	---	---	---	---	1793.55
12	---	---	---	---	---	---	---	---	---	---	---	1793.52
13	---	---	---	---	---	---	---	---	---	---	---	1793.50
14	---	---	---	---	---	---	---	---	---	---	---	1793.48
15	---	---	---	---	---	---	---	---	---	---	---	1793.46
16	---	---	---	---	---	---	---	---	---	---	---	1793.45
17	---	---	---	---	---	---	---	---	---	---	---	1793.44
18	---	---	---	---	---	---	---	---	---	---	---	1793.43
19	---	---	---	---	---	---	---	---	---	---	---	1793.43
20	---	---	---	---	---	---	---	---	---	---	---	1793.41
21	---	---	---	---	---	---	---	---	---	---	---	1793.41
22	---	---	---	---	---	---	---	---	---	---	---	1793.40
23	---	---	---	---	---	---	---	---	---	---	1793.65	1793.39
24	---	---	---	---	---	---	---	---	---	---	1793.62	1793.39
25	---	---	---	---	---	---	---	---	---	---	1793.59	1793.38
26	---	---	---	---	---	---	---	---	---	---	1793.56	1793.38
27	---	---	---	---	---	---	---	---	---	---	1793.54	1793.37
28	---	---	---	---	---	---	---	---	---	---	1793.52	1793.36
29	---	---	---	---	---	---	---	---	---	---	1793.50	1793.36
30	---	---	---	---	---	---	---	---	---	---	1793.49	1793.35
31	---	---	---	---	---	---	---	---	---	---	1793.48	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

QUERINO ROAD WELL CLUSTER—Continued

STATION NUMBER 351519109161502 (QR-2)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1793.35	1793.52	1793.59	1793.72	1793.79	1793.85	---	1793.54	1793.37	1793.26	---	---
2	1793.34	1793.53	1793.59	1793.72	1793.79	1793.85	---	1793.53	1793.36	1793.25	---	---
3	1793.34	1793.53	1793.59	1793.72	1793.78	1793.86	---	1793.57	1793.36	1793.25	---	---
4	1793.34	1793.53	1793.59	1793.72	1793.80	1793.85	1793.69	1793.62	1793.35	1793.24	---	---
5	1793.34	1793.53	1793.60	1793.72	1793.80	1793.84	1793.71	1793.64	1793.35	1793.24	---	---
6	1793.38	1793.54	1793.62	1793.71	1793.80	---	1793.73	1793.64	1793.34	1793.24	---	---
7	1793.42	1793.54	1793.62	1793.71	1793.80	---	1793.72	1793.64	1793.34	1793.27	---	---
8	1793.44	1793.54	1793.62	1793.71	1793.80	---	1793.74	1793.62	1793.33	1793.33	---	1793.30
9	1793.44	1793.54	1793.64	1793.70	1793.81	---	1793.73	1793.58	1793.33	1793.39	---	1793.31
10	1793.46	1793.55	1793.64	1793.71	1793.82	---	1793.71	1793.56	1793.33	1793.43	---	1793.32
11	1793.46	1793.56	1793.64	1793.72	1793.83	---	1793.70	1793.53	1793.32	1793.49	---	1793.29
12	1793.46	1793.56	1793.64	1793.73	1793.85	---	1793.69	1793.51	1793.35	1793.52	---	1793.25
13	1793.46	1793.56	1793.65	1793.73	1793.85	---	1793.65	1793.50	1793.37	1793.56	---	1793.22
14	1793.47	1793.56	1793.65	1793.74	1793.85	---	1793.63	1793.49	1793.37	1793.53	---	1793.19
15	1793.47	---	1793.66	1793.74	1793.84	---	1793.61	1793.48	1793.35	1793.38	---	1793.16
16	1793.46	1793.56	1793.66	1793.74	1793.82	---	1793.60	1793.47	1793.34	1793.29	---	1793.14
17	1793.45	1793.57	1793.66	1793.75	1793.83	---	1793.58	1793.46	1793.33	1793.23	---	1793.15
18	1793.43	1793.57	1793.67	1793.75	1793.83	---	1793.57	1793.46	1793.31	1793.26	---	1793.18
19	1793.44	1793.57	1793.66	1793.75	1793.83	---	1793.56	1793.44	1793.31	1793.22	---	1793.21
20	1793.46	1793.57	1793.67	1793.75	1793.85	---	1793.54	1793.44	1793.31	1793.20	---	1793.26
21	1793.47	1793.57	1793.67	1793.75	1793.85	---	1793.54	1793.43	1793.30	1793.19	---	1793.32
22	1793.49	1793.57	1793.68	1793.76	1793.85	---	1793.53	1793.43	1793.30	1793.17	---	1793.32
23	1793.49	1793.59	1793.69	1793.77	1793.84	---	1793.52	1793.42	1793.30	1793.14	---	1793.37
24	1793.50	1793.59	1793.69	1793.77	1793.83	---	1793.51	1793.41	1793.29	1793.17	---	1793.34
25	1793.51	1793.59	1793.70	1793.77	1793.83	---	1793.51	1793.41	1793.28	1793.15	---	1793.29
26	1793.51	1793.59	1793.70	1793.77	1793.83	---	1793.51	1793.40	1793.28	---	---	1793.25
27	---	1793.59	1793.70	1793.77	1793.83	---	1793.56	1793.40	1793.28	---	---	1793.23
28	1793.51	1793.58	1793.71	1793.78	1793.83	---	1793.60	1793.39	1793.27	---	---	1793.21
29	1793.51	1793.58	1793.72	1793.78	---	---	1793.59	1793.38	1793.27	---	---	1793.20
30	1793.52	1793.59	1793.72	1793.78	---	---	1793.57	1793.38	1793.27	---	---	1793.19
31	1793.52	---	1793.72	1793.79	---	---	---	1793.38	---	---	---	---

GROUND-WATER DATA—Continued

DAILY WATER LEVELS—Continued

QUERINO ROAD WELL CLUSTER—Continued

STATION NUMBER 351519109161502 (QR-2)—Continued

WATER LEVEL, IN METERS ABOVE MEAN SEA LEVEL, OCTOBER 1990 TO JUNE 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1793.20	1793.27	1793.31	1793.41	1793.45	1793.46	1793.46	1793.25	1792.91	---	---	---
2	1793.22	1793.31	1793.31	1793.40	1793.44	1793.53	1793.45	1793.23	1792.91	---	---	---
3	1793.24	1793.35	1793.31	1793.40	1793.43	1793.56	1793.46	1793.20	1792.91	---	---	---
4	1793.21	1793.34	1793.31	1793.43	1793.43	1793.52	1793.46	1793.18	---	---	---	---
5	1793.19	1793.35	1793.31	1793.46	1793.43	1793.50	1793.46	1793.16	---	---	---	---
6	1793.17	1793.34	1793.31	1793.53	1793.43	1793.56	1793.44	1793.15	---	---	---	---
7	1793.17	1793.37	1793.31	1793.67	1793.45	1793.54	1793.43	1793.13	---	---	---	---
8	1793.16	1793.35	1793.31	1793.68	1793.48	1793.50	1793.42	1793.12	---	---	---	---
9	1793.14	1793.34	1793.31	1793.66	1793.51	1793.47	1793.41	1793.10	---	---	---	---
10	1793.14	1793.34	1793.31	1793.63	1793.52	1793.44	1793.39	1793.09	---	---	---	---
11	1793.13	1793.33	1793.31	1793.59	1793.53	1793.42	1793.37	1793.07	---	---	---	---
12	1793.12	1793.32	1793.32	1793.55	1793.53	1793.40	1793.38	1793.05	---	---	---	---
13	1793.12	1793.31	1793.37	1793.53	1793.56	1793.40	1793.38	1793.05	---	---	---	---
14	1793.11	1793.30	1793.37	1793.51	1793.60	1793.41	1793.37	1793.03	---	---	---	---
15	1793.10	1793.30	1793.37	1793.50	1793.58	1793.42	1793.35	1793.02	---	---	---	---
16	1793.10	1793.29	1793.42	1793.49	1793.54	1793.42	1793.33	1793.01	---	---	---	---
17	1793.08	1793.28	1793.39	1793.47	1793.57	1793.40	1793.34	1793.01	---	---	---	---
18	1793.07	1793.28	1793.38	1793.45	1793.53	1793.40	1793.37	1792.99	---	---	---	---
19	1793.08	1793.28	1793.37	1793.45	1793.47	1793.41	1793.39	1792.99	---	---	---	---
20	1793.38	1793.28	1793.38	1793.45	1793.45	1793.41	1793.39	1792.98	---	---	---	---
21	1793.43	1793.28	1793.38	1793.44	1793.42	1793.42	1793.38	1792.97	---	---	---	---
22	1793.38	1793.28	1793.38	1793.44	1793.41	1793.43	1793.38	1792.96	---	---	---	---
23	1793.36	1793.28	1793.38	1793.44	1793.40	1793.43	1793.37	1792.96	---	---	---	---
24	1793.34	1793.28	1793.38	1793.43	1793.38	1793.42	1793.36	1792.95	---	---	---	---
25	1793.32	1793.29	1793.38	1793.44	1793.37	1793.40	1793.35	1792.94	---	---	---	---
26	1793.31	1793.32	1793.39	1793.44	1793.36	1793.40	1793.35	1792.94	---	---	---	---
27	1793.30	1793.32	1793.39	1793.44	1793.35	1793.42	1793.34	1792.94	---	---	---	---
28	1793.28	1793.31	1793.39	1793.45	1793.39	1793.45	1793.32	1792.92	---	---	---	---
29	1793.28	1793.31	1793.42	1793.47	---	1793.48	1793.31	1792.92	---	---	---	---
30	1793.27	1793.31	1793.42	1793.44	---	1793.49	1793.28	1792.92	---	---	---	---
31	1793.27	---	1793.41	1793.45	---	1793.47	---	1792.91	---	---	---	---

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
CHAMBERS WELL CLUSTER						
351043109270301	CW-1	09-30-88	--	1744.22	1739.81	4.41
		10-28-88	--		1739.80	4.42
		10-29-88	--		1739.80	4.42
		06-07-89	--		1739.79	4.43
		09-01-89	1610		1739.73	4.49
		09-11-89	1400		1739.75	4.47
		11-02-89	1400		1739.74	4.48
		11-16-89	--		1739.74	4.48
		01-11-90	1015		1739.77	4.45
		02-07-90	1225		1739.83	4.39
		03-07-90	1545		1739.85	4.36
		04-04-90	1010		1739.84	4.38
		05-02-90	0935		1739.80	4.42
		07-27-90	1400		1739.42	4.80
		09-06-90	1130		1739.31	4.91
		10-30-90	1530		1739.25	4.97
		12-05-90	1005		1739.24	4.97
		01-16-91	1615		1739.33	4.89
		03-04-91	1225		1739.40	4.82
		04-11-91	1715		1739.48	4.74
		06-05-91	0900		1739.32	4.90
351043109270302	CW-2	07-29-89	1400	1743.88	1740.43	3.45
		09-01-89	1600	1743.85	1740.10	3.75
		09-11-89	--		1740.13	3.72
		11-02-89	1500		1740.13	3.72
		11-16-89	0945		1740.13	3.72
		12-07-89	1355		1740.16	3.69
		01-11-90	1020		1740.17	3.68
		02-07-90	1205		1740.22	3.63
		03-07-90	1655		1740.25	3.60
		04-04-90	1045		1740.22	3.63
		05-02-90	1230		1740.17	3.68
		05-17-90	1215		1740.12	3.73
		07-27-90	1530		1739.79	4.06
		09-06-90	1320		1739.86	3.99
		10-30-90	1630		1739.65	4.20
		12-05-90	1015		1739.66	4.19
		01-16-91	1705		1739.82	4.03
		03-04-91	1235		1739.93	3.92
		04-11-91	1545		1739.92	3.93
		06-05-91	0850		1739.70	4.15
351043109270303	CW-3	07-02-89	1147	1744.35	1740.43	3.92
		09-01-89	1605	1744.31	1740.06	4.25
		09-11-89	--		1740.10	4.21
		11-11-89	1500		1740.09	4.22
		11-15-89	1445		1740.10	4.21
		11-16-89	1538	1744.35	1740.16	4.19
		12-07-89	1400	1743.87	1740.12	3.75
		01-11-90	1305		1740.14	3.73
		02-07-90	1240		1740.20	3.67
		03-07-90	1545		1740.22	3.65
		04-04-90	1020		1740.19	3.68
		05-02-90	1430		1740.14	3.73
		05-17-90	1130		1740.07	3.80
		07-27-90	1400		1739.78	4.09

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
CHAMBERS WELL CLUSTER—Continued						
351043109270303 (Continued)	CW-3	09-06-90	1130		1739.83	4.04
		10-30-90	1530		1739.64	4.23
		12-05-90	1000		1739.62	4.25
		01-16-91	1630		1739.80	4.07
		03-04-91	1305		1739.90	3.97
		04-11-91	1730		1739.88	3.99
		06-05-91	0900		1739.66	4.21
351038109270801	CW-4	09-30-88	--	1743.09	1739.69	3.40
		10-29-88	--		1739.65	3.45
		12-07-88	--		1739.74	3.36
		06-07-89	--		1739.66	3.44
		09-01-89	1545		1739.59	3.51
		09-11-89	--		1739.61	3.48
		11-02-89	1500		1739.61	3.48
		11-15-89	--		1739.59	3.51
		12-07-89	1305		1739.63	3.47
		01-11-90	1005		1739.66	3.43
		02-07-90	1150		1739.69	3.40
		03-07-90	1530		1739.71	3.38
		04-04-90	0910		1739.70	3.39
		05-02-90	1510		1739.66	3.43
		07-27-90	1400		1738.56	4.53
		09-06-90	1130		1738.58	4.52
		10-30-90	1530		1738.61	4.48
		10-31-90	--		1738.61	4.49
		12-05-90	1045		1738.94	4.16
		01-16-91	1735		1739.02	4.08
		03-04-91	1345		1739.11	3.98
		04-11-91	1705		1739.18	3.92
		06-05-91	0920		1739.16	3.93
351038109270802	CW-5	09-30-88	--	1743.02	1739.57	3.46
		10-29-88	--		1739.52	3.51
		12-07-88	--		1739.64	3.38
		06-07-89	--		1739.44	3.58
		09-01-89	1550		1739.43	3.59
		09-11-89	1400		1739.47	3.55
		11-02-89	1500		1739.45	3.57
		11-15-89	1245		1739.45	3.57
		12-07-89	1330		1739.48	3.54
		01-11-90	1000		1739.50	3.52
		02-07-90	1145		1739.57	3.46
		03-07-90	1530		1739.59	3.43
		04-04-90	0915		1739.55	3.47
		05-02-90	1500		1739.49	3.53
		07-27-90	1400		--	--
		09-06-90	1130		1739.15	3.88
		10-30-90	1530		1738.97	4.05
		10-31-90	1350		1738.97	4.05
		12-05-90	1050		1738.96	4.06
		01-16-91	1740		1739.11	3.91
		03-04-91	1345		1739.22	3.80
		04-11-91	1710		1739.23	3.79
		06-05-91	0925		1738.97	4.05

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
CHAMBERS WELL CLUSTER—Continued						
351038109270803	CW-6	07-02-89	--	1743.14	1739.32	3.82
		07-27-89	1056		1739.31	3.83
		09-01-89	1555		1739.39	3.75
		09-11-89	--		1739.43	3.72
		11-02-89	1500		1739.40	3.75
		11-16-89	1144		1739.41	3.73
		12-07-89	1315		1739.43	3.72
		01-11-90	0955		1739.45	3.69
		02-07-90	1120		1739.51	3.63
		03-07-90	1530		1739.55	3.60
		04-04-90	0925		1739.51	3.63
		05-02-90	1505		1739.44	3.70
		05-17-90	1315		--	--
		07-27-90	1600		1739.11	4.03
		09-06-90	1130		1739.10	4.04
		10-30-90	1530		1738.92	4.22
		12-05-90	1115		1738.98	4.17
		01-16-91	1745		1739.06	4.08
		03-04-91	1350		1739.17	3.97
		04-11-91	1815		1739.18	3.97
		06-05-91	0935		1738.92	4.22
351039109270001	CW-7	09-30-88	--	1748.75	1739.83	8.91
		10-28-88	--		1739.80	8.95
		10-29-88	--		1739.83	8.95
		06-07-89	--		1739.74	9.00
		09-01-89	1515		1739.70	9.04
		09-11-89	--		1739.75	9.00
		11-02-89	1500		1739.74	9.01
		11-14-89	1710		1739.76	8.99
		12-07-89	1140		1739.76	8.99
		01-11-90	0930		1739.78	8.96
		02-07-90	1020		1739.83	8.91
		03-07-90	1515		1739.87	8.88
		04-04-90	0810		1739.84	8.90
		05-02-90	1600		1739.77	8.98
		07-27-90	1400		1739.43	9.32
		09-06-90	1130		1739.44	9.31
		10-30-90	1530		1737.27	9.48
		11-01-90	1150		1739.27	9.48
		12-05-90	1150		1739.57	9.18
		01-16-91	1610		1739.41	9.33
		03-04-91	1330		1739.52	9.23
		04-11-91	1700		1739.52	9.32
		06-05-91	0940		1739.28	9.46
351039109270002	CW-8	09-30-88	--	1748.88	1739.84	9.04
		10-28-88	--		1739.83	9.05
		10-29-88	--		1739.79	9.09
		06-07-89	--		1739.75	9.13
		09-01-89	1520		1739.72	9.16
		09-11-89	--		1739.76	9.12
		11-02-89	1500		1739.74	9.14
		11-14-89	1600		1739.76	9.11
		12-07-89	1150		1740.07	8.81
		01-11-90	0925		1739.78	9.10
		02-07-90	1015		1738.62	10.26
		03-07-90	1515		1739.87	9.01

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)		
CHAMBERS WELL CLUSTER—Continued								
351039109270002 (Continued)	CW-8	04-04-90	0820		1739.83	9.04		
		05-02-90	1615		1739.78	9.10		
		07-27-90	1400		1739.44	9.44		
		09-06-90	1130		1739.44	9.44		
		10-18-90	1600		1739.76	9.11		
		11-01-90	1800		1739.44	9.60		
		12-05-90	1210		1739.88	9.00		
		01-16-91	1605		1739.41	9.47		
		03-04-91	1335		1739.52	9.36		
		04-11-91	1655		1739.53	9.35		
	06-05-91	0945		1739.29	9.59			
351039109270003	CW-9	07-27-89	1250	1748.81	1739.62	9.19		
		09-01-89	1530		1739.69	9.12		
		09-11-89	--		1739.72	9.09		
		11-02-89	1500		1739.71	9.10		
		11-15-89	0940		--	--		
		11-16-89	1330		--	--		
		12-07-89	1130		1739.73	9.07		
		01-11-90	1040		1739.76	9.04		
		02-07-90	1100		--	--		
		02-09-90	1300		--	--		
		03-07-90	1615		--	--		
		04-04-90	0830		--	--		
		05-02-90	1800		--	--		
		05-17-90	1415		--	--		
		07-27-90	1430		--	--		
		09-06-90	1445		--	--		
		10-18-90	1445		1739.24	9.57		
		11-01-90	1800		1739.24	9.57		
		12-05-90	1215		1739.24	9.57		
		01-16-91	1600		1739.38	9.43		
		03-04-91	1340		1739.49	9.32		
		04-11-91	1650		1739.80	9.01		
		06-05-91	0950		1739.26	9.55		
		ADOT WELL CLUSTER						
		351140109220901	AD-1	06-29-89	--	1766.23	1761.01	5.22
				09-01-89	1340		1761.35	4.88
				09-11-89	1330		1761.36	4.88
11-02-89	1400				1761.06	5.18		
11-14-89	--				1761.03	5.20		
12-07-89	1600				1760.93	5.30		
01-10-90	1635				1760.81	5.43		
02-06-90	1755				1760.84	5.39		
03-08-90	0915				1760.91	5.33		
04-03-90	1805				1760.87	5.36		
05-01-90	1630				1760.77	5.46		
07-27-90	1030				1760.67	5.56		
09-05-90	1500				1760.79	5.44		
10-13-90	--				1760.87	5.36		
11-03-90	1430				1760.89	5.34		
12-04-90	1315				1761.10	5.44		
01-17-91	1425				1760.87	5.36		
03-04-91	1815				1761.15	5.08		
04-11-91	1420				1761.46	4.77		
06-04-91	1550				1761.00	5.23		

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
ADOT WELL CLUSTER—Continued						
351140109220403	AD-3	06-29-89	--	1766.15	1761.37	4.78
		07-13-89	1130		1760.60	5.55
		07-27-89	1324		1761.23	4.92
		09-01-89	1350		1761.47	4.68
		09-11-89	1300		1761.49	4.66
		09-22-89	1020		1761.36	4.79
		11-02-89	1400		1761.14	5.01
		11-17-89	1545		1761.10	5.05
		12-07-89	1600		1760.97	5.18
		01-10-90	1640		1760.85	5.18
		02-07-90	0750		1760.91	5.24
		03-08-90	1115		1761.00	5.15
		04-03-90	1800		1760.97	5.18
		05-01-90	1550		1760.84	5.31
		06-08-90	0940		1760.70	5.44
		07-27-90	1130		1761.11	5.04
		09-05-90	1530		1760.93	5.22
		10-19-90	0930		1760.97	5.18
		11-03-90	1530		1761.02	5.13
		12-04-90	1350		1760.94	5.21
		01-17-91	1500		1761.06	5.09
		03-04-91	1820		1761.41	4.74
		04-11-91	1435		1761.73	4.41
		06-04-91	1600		1761.12	5.03
351144109220701	AD-4	06-29-89	--	1765.51	1760.98	4.53
		09-01-89	1415		1761.32	4.19
		09-11-89	1345		1761.33	4.18
		09-22-89	--		1761.27	4.24
		11-02-89	1445		1761.07	4.44
		12-07-89	1730		1760.90	4.61
		01-10-90	1645		1760.79	4.73
		02-06-90	1755		1760.80	4.72
		03-08-90	0915		1760.85	4.66
		04-03-90	1820		1760.84	4.67
		05-01-90	1310		1760.74	4.77
		07-27-90	1030		1760.63	4.88
		09-05-90	1500		1760.76	4.75
		10-13-90	--		1760.83	4.68
		11-03-90	1430		1760.85	4.67
		12-04-90	1410		1760.78	4.74
		01-17-91	1450		1760.83	4.69
		03-04-91	1800		1761.11	4.40
		04-11-91	1430		1761.40	4.11
		06-04-91	1530		1761.01	4.51
351139109221301	AD-5	07-13-89	1600	1766.04	1761.04	5.00
		07-26-89	1145		1760.96	5.08
		09-01-89	1350	1765.72	1761.05	4.67
		09-11-89	--		1761.21	4.51
		11-02-89	1400		1760.87	4.85
		11-13-89	1800	1766.04	1760.86	5.18
		11-14-89	0900		1760.86	5.18
		11-15-89	1615		1760.80	5.24
		12-07-89	1655		1760.70	5.03
		01-10-90	1615		1760.59	5.13

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
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ADOT WELL CLUSTER—Continued

351139109221301 (Continued)	AD-5	02-07-90	0835		1760.62	5.10
		03-08-90	1100		1760.72	5.00
		04-03-90	1715		1760.69	5.03
		05-04-90	0745		1760.52	5.21
		06-08-90	0915		1760.43	5.29
		07-27-90	1130		1760.51	5.22
		09-05-90	1700		1760.66	5.06
		11-03-90	1545		1760.76	4.97
		01-17-91	1530		1760.76	4.97
		03-04-91	1845		1761.08	4.64
		04-11-91	1505		1761.09	4.33
		06-04-91	1540		1760.87	4.85

CEDAR SURFACE WELL CLUSTER

351411109170701	CP-1	06-28-89	--	1792.75	1786.58	6.17
		09-01-89	1235		1786.73	6.03
		09-11-89	--		1786.76	5.99
		09-21-89	--		1786.66	6.08
		11-02-89	1300		1786.65	6.10
		12-08-89	1135		1786.75	6.00
		01-10-90	1335		1786.81	5.93
		02-06-90	1540		1786.97	5.78
		03-06-90	1330		1787.09	5.65
		04-03-90	1505		1786.86	5.89
		05-03-90	0840		1786.76	5.98
		07-26-90	1400		1786.66	6.09
		09-06-90	1600		1786.80	5.94
		10-12-90	--		1786.69	6.05
		11-03-90	1200		1786.93	5.82
		12-05-90	1335		1786.91	5.84
		01-17-91	1115		1787.06	5.68
		03-04-91	1525		1787.13	5.61
		04-11-91	1155		1786.96	5.79
		06-04-91	1330		1786.60	6.15
351411109170702	CP-2	06-28-89	--	1792.80	1786.74	6.06
		09-01-89	1240		1786.87	5.93
		09-11-89	--		1786.87	5.92
		09-21-89	--		1786.81	5.99
		11-02-89	1300		1786.75	6.06
		12-08-89	1130		1786.81	5.99
		01-10-90	1330		1786.86	5.94
		02-06-90	1545		1786.97	5.83
		03-06-90	1330		1787.07	5.73
		04-03-90	1510		1786.93	5.87
		05-03-90	0840		1786.85	5.95
		07-26-90	1400		1786.82	5.98
		09-06-90	1600		1786.87	5.93
		10-12-90	--		1786.82	5.98
		11-03-90	1200		1787.03	5.77
		12-05-90	1345		1787.00	5.80
		01-17-91	1120		1786.88	5.92
		03-04-91	1530		1787.25	5.55
		04-11-91	1200		1787.16	5.65
		06-04-91	1335		1786.73	6.07

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
CEDAR SURFACE WELL CLUSTER—Continued						
351411109170703	CP-3	07-03-89	1100	1792.72	1786.73	5.99
		07-30-89	1448		1786.94	5.78
		09-01-89	1245		1786.87	5.85
		09-11-89	--		1786.88	5.84
		09-21-89	1615		1786.81	5.91
		11-02-89	1300		1786.75	5.97
		11-15-89	1400	1792.43	1786.79	5.93
		12-08-89	1120		1786.80	5.62
		01-10-90	1330		1786.87	5.56
		02-06-90	1550		1786.97	5.45
		03-06-90	1430		1787.06	5.36
		04-03-90	1520		1786.94	5.48
		05-03-90	1125		1786.86	5.57
		05-16-90	1530		1786.83	5.60
		07-26-90	1600		1786.84	5.59
		09-06-90	1700		1786.85	5.57
		11-03-90	1300		1787.01	5.41
		12-05-90	1330		1787.00	5.43
		01-17-91	1235		1787.19	5.24
		03-04-91	1535		1787.25	5.17
		04-11-91	1220			
351415109170201	CP-4	07-03-89	1230	1792.67	1786.94	5.73
		07-30-89	1642		1787.07	5.60
		09-01-89	1255		1787.05	5.62
		09-11-89	--		1787.04	5.63
		09-21-89	1020		1786.98	5.69
		11-02-89	1300		1786.91	5.76
		11-17-89	0949		1786.93	5.74
		12-08-89	1030	1792.30	1786.93	5.37
		01-10-90	1300		1786.99	5.32
		02-06-90	1640		1787.05	5.25
		03-10-90	1430		1787.13	5.17
		04-03-90	1555		1787.07	5.23
		05-03-90	1500		1787.01	5.29
		06-07-90	1845		1786.91	5.39
		07-26-90	1600		1787.05	5.25
		09-06-90	1715		1786.99	5.31
		10-17-90	0830		--	5.10
		11-03-90	1315		1787.10	5.20
		12-05-90	1405		1787.10	5.20
		01-17-91	1305		1878.30	5.00
351410109170201	CP-5	03-04-91	1600		1787.37	4.94
		04-11-91	1245		1787.28	5.02
		06-04-91	1350		1786.94	5.36
		07-03-89	1420	1792.25	1786.68	5.58
		07-30-89	1300		1786.71	5.55
		09-01-89	1305		1786.73	5.53
		09-11-89	--		1786.71	5.54
		09-20-89	1630		1786.77	5.49
		11-02-89	1300		1786.63	5.62
		11-17-89	1122	1791.88	1786.65	5.61
		12-08-89	1100		1786.64	5.24
		01-10-90	1150		1786.68	5.20
		02-06-90	1500		1786.74	5.14

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
351410109170201 (Continued)	CP-5	03-06-90	1330		1786.81	5.07
		04-03-90	1430		1786.77	5.11
		05-03-90	1700		1786.71	5.17
		05-07-90	1610		1786.71	5.17
		06-07-90	1900		1786.62	5.26
		07-26-90	1630		1786.64	5.24
		09-06-90	1730		1786.61	5.27
		10-17-90	1143		1786.64	5.24
		11-03-90	1330		1786.70	5.18
		12-05-90	1415		1786.73	5.15
		01-17-91	1205		1786.84	5.04
		03-04-91	1625		1786.91	4.97
		04-11-91	1305		1786.92	4.96
		06-04-91	1415		1786.67	5.21
351407109165801	CP-6	06-28-89	--	1792.02	1786.56	5.46
		09-01-89	1315		1786.50	5.52
		09-11-89	--		1786.48	5.54
		09-20-89	--		1786.48	5.54
		11-02-89	1300		1786.44	5.57
		12-08-89	1020		1786.44	5.57
		01-10-90	1130		1786.45	5.57
		02-06-90	1445		1786.48	5.54
		03-06-90	1330		1786.51	5.51
		04-03-90	1420		1786.53	5.49
		05-03-90	1540		1786.51	5.51
		07-26-90	1400		1786.40	5.62
		09-06-90	1600		1786.38	5.64
		11-03-90	1200		1786.41	5.61
		12-05-90	1450		1786.44	5.57
		01-17-91	1100		1786.49	5.53
		03-04-91	1515		1786.55	5.47
		04-11-91	1150		1786.59	5.43
		06-04-91	1435		1786.50	5.51
351407109165601	CP-7	07-26-90	1400	1792.42	1786.59	5.82
		09-06-90	1600		1786.58	5.84
		11-03-90	--		1786.63	5.78
		12-05-90	1455		1786.67	5.75
		01-17-91	1110		1786.75	5.67
		03-04-91	1505		1786.81	5.60
		04-11-91	1145		1786.84	5.57
		06-04-91	1445		1786.66	5.75
351407109165602	CP-8	06-07-90	--	1792.46	1786.04	6.42
		07-26-90	1400		1786.10	6.36
		09-06-90	1100		1786.13	6.34
		10-17-90	--		1786.09	6.37
		11-03-90	1200		1786.24	6.22
		12-05-90	1500		1786.28	6.18
		01-17-91	1105		1786.41	6.05
		03-04-91	1510		1786.45	6.01
		04-11-91	1140		1786.42	6.04
351311109183701	CP WINDMILL	02-06-90	1550	1796.16	1786.11	10.05
		04-03-90	1400		1786.14	10.02

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
QUERINO ROAD WELL CLUSTER						
351519109161501	QR-1	06-30-89	--	1797.32	1793.27	4.05
		09-01-89	1205		1793.46	3.86
		09-11-89	1200		1793.55	3.77
		09-19-89	--		1793.43	3.89
		11-02-89	1600		1793.53	3.79
		12-08-89	0820		1793.64	3.68
		01-10-90	1450		1793.72	3.59
		02-06-90	1220		1793.80	3.52
		03-06-90	1130		1793.85	3.46
		04-03-90	1220		1793.70	3.62
		04-30-90	1640		1793.56	3.76
		07-26-90	1700		1793.00	4.23
		09-07-90	1415		1793.31	4.01
		11-03-90	1045		1793.36	3.96
		12-04-90	1655		1793.32	4.00
		01-18-91	1335		1793.46	3.86
		03-04-91	1710		1793.51	3.81
		04-11-91	1035		1793.39	3.93
		06-04-91	1225		1793.91	4.40
351519109161502	QR-2	07-01-89	1300	1797.12	1793.27	3.85
		07-11-89	1030		1793.04	4.08
		07-30-89	1230		1793.54	3.58
		09-01-89	1210		1793.46	3.66
		09-11-89	--		1793.56	3.56
		09-20-89	1030		1793.26	3.86
		11-02-89	1200		1793.52	3.60
		11-15-89	1200		1793.57	3.55
		12-08-89	0830		1793.63	3.47
		01-10-90	1500		1793.72	3.40
		02-06-90	1240		1793.79	3.33
		03-06-90	1130		1793.85	3.27
		04-03-90	1300		1793.68	3.44
		05-01-90	0915		1793.55	3.57
		06-07-90	1410		1793.34	3.78
		07-27-90	1730		1793.11	4.01
		09-07-90	1045		1793.32	3.80
		11-03-90	1115		1793.37	3.75
		12-04-90	1650		1793.32	3.80
		01-18-91	1400		1793.48	3.64
		03-04-91	1715		1793.52	3.60
		04-11-91	1045		1793.41	3.71
		06-04-91	1220		1792.92	4.20
351519109161801	QR-3	06-27-89	--	1794.63	1793.26	1.37
		07-11-89	--		1793.22	1.41
		09-01-89	1200		1793.45	1.19
		09-11-89	--		1793.54	1.10
		09-20-89	--		1793.41	1.22
		11-02-89	1200		1793.52	1.11
		12-08-89	0815		1793.63	1.01
		01-10-90	1510		1793.71	0.93
		02-06-90	1200		1793.79	0.84
		03-06-90	1130		1793.85	0.79
		04-03-90	1210		1793.67	0.96
		04-30-90	1445		1793.55	1.09

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
351519109161801 (Continued)	QR-3	12-04-90	1730		1793.31	1.32
		01-18-91	1345		1793.47	1.17
		03-04-91	1730		1793.51	1.13
		04-11-91	1030		1793.38	1.26
		06-04-91	1240		1792.91	1.73
LUPTON WELL CLUSTER						
351928109042601	LPT-1	07-26-90	1800	1858.04	1856.52	1.52
		09-07-90	1230		1856.74	1.30
		10-11-90	--		1856.93	1.11
		11-03-90	0930		1856.99	1.05
		12-05-90	0825		1856.79	1.25
		01-16-91	1000		1857.01	1.03
		03-05-91	0755		1857.03	1.01
		04-11-91	0740		1857.00	1.04
		06-04-91	0845		1856.77	1.26
351928109042602	LPT-2	07-26-90	1800	1858.29	1857.07	1.22
		09-07-90	1230		1857.20	1.09
		10-11-90	--		1856.91	1.38
		11-03-90	0930		1857.00	1.29
		12-05-90	0830		1857.26	1.03
		01-16-91	0955		1857.40	0.89
		03-05-91	0800		1857.47	0.82
		04-11-91	0745		1857.48	0.81
		06-04-91	0850		1857.31	0.98
351929109042401	LPT-3	09-07-90	1230	1858.87	1856.84	2.03
		10-12-90	--		1856.80	2.07
		11-03-90	0930		1856.90	1.96
		12-05-90	0835		1856.93	1.94
		01-16-91	0930		1857.05	1.81
		03-05-91	0810		1857.13	1.74
		04-11-91	0850		1857.13	1.74
		06-04-91	0855		1856.96	1.91
351930109042701	LPT-4	07-26-90	1800	1858.53	1856.23	2.30
		09-07-90	1230		1856.41	2.11
		10-11-90	--		1856.37	2.16
		11-03-90	0930		1856.46	2.07
		12-05-90	0840		1856.49	2.03
		01-16-91	0945		1856.69	1.84
		03-05-91	0805		1856.74	1.79
		04-11-91	0800		1856.73	1.80
06-04-91	0900		1856.53	2.00		

GROUND-WATER DATA—Continued

DISCRETE WATER LEVELS—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LAND SURFACE ALTITUDE (METERS)	WATER LEVEL (MEAN SEA LEVEL) (METERS)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS)
MANUELITO WELL CLUSTER						
352742108563301	MAN-1	06-06-90	--	1919.13	1912.67	6.45
		07-27-90	0900		1912.63	6.50
		09-07-90	0820		1912.60	6.53
		10-10-90	--		1912.60	6.52
		11-03-90	0815		1912.63	6.50
		12-05-90	0745		1912.64	6.49
		01-16-91	0800		1912.72	6.40
		03-05-91	0705		1912.73	6.39
		04-10-91	1835		1912.74	6.39
		06-03-91	1635		1912.71	6.41
352742108563302	MAN-2	06-06-90	--	1919.12	1911.20	7.93
		07-27-90	0900		1911.21	7.91
		09-07-90	0820		1911.19	7.93
		10-10-90	--		1911.20	7.92
		12-05-90	0740		1911.21	7.91
		01-16-91	0825		1911.33	7.80
		03-05-91	0710		1911.37	7.75
		04-10-91	1840		1911.39	7.73
		06-03-91	1640		1911.35	7.77
352743108563401	MAN-3	06-06-90	--	1919.21	1911.29	7.92
		09-07-90	0830		1911.29	7.92
		10-11-90	--		1911.59	7.62
		11-03-90	0815		1911.34	7.87
		12-05-90	0730		1911.34	7.87
		03-05-91	0720		1911.52	7.69
		04-10-91	1845		1911.57	7.64
		06-03-91	1645		1911.49	7.72

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY

CHAMBERS WELL CLUSTER

LOCATION—Lat 35°10'38" to 35°10'43", Long 109°27'00" to 109°27'08", in sec. 35, T. 21 N., R. 27 E. (A 21-2735), 3 km southwest and east of Chambers.

Landowner: New lands

LAND SURFACE DATUM—See table below.

DRILLING AND WELL CONSTRUCTION

The wells are cased with nominal 5-centimeter diameter, schedule 40, polyvinyl-chloride pipe. Each well is screened with a length of slotted, 5-centimeter diameter, schedule 42, polyvinyl-chloride pipe as the well screen. Each screen has 1,470 factory-cut slots 3.6 cm long by 0.64 mm wide for a total open area of 339 cm. The borehole annulus around the screen is filled with sand. A bentonite seal was placed in the annulus from approximately 0.5 to 1.5 m above the screen. The wells were developed by jetting high-pressure air horizontally through the screen to agitate the formation and air-lift water and sediment until no further visible sediment was removed.

LOGS: G, geologist; GA, gamma; GG, gamma-gamma; N, neutron; --, no data

WELL	DATE COMPLETED	DRILLING METHOD	LAND SURFACE ALTITUDE (meters)	HOLE DEPTH (meters)	WELL DEPTH (meters)	SCREENED INTERVAL (meters)	GEOLOGIC UNIT	BOTTOM OF SEAL (meters)	LOGS AVAILABLE
CW-1	09-27-88	Hollow-stem auger	1,744.22	32.0	32.0	27.4-29.0	Chinle	--	G,GA,GG,N
CW-2	09-27-88	Hollow-stem auger	1,743.85	25.0	25.0	14.3-15.8	Alluvium	--	G
CW-3	09-27-88	Hollow-stem auger	1,744.31	11.7	11.7	4.6- 6.1	Alluvium	--	G
CW-4	09-27-88	Hollow-stem auger	1,743.09	30.5	30.5	27.4-29.0	Alluvium	--	G,GA,GG,N
CW-5	09-27-88	Hollow-stem auger	1,743.02	19.8	19.8	16.8-18.3	Alluvium	--	G
CW-6	09-28-88	Hollow-stem auger	1,743.14	9.1	9.1	4.6- 7.6	Alluvium	--	G
CW-7	09-30-88	Hollow-stem auger	1,748.75	30.0	30.0	24.4-26.0	Alluvium	--	G,GA,GG,N
CW-8	09-30-88	Hollow-stem auger	1,748.88	21.2	21.2	18.3-19.8	Alluvium	--	G
CW-9	09-30-88	Hollow-stem auger	1,748.81	16.5	16.5	11.6-14.6	Alluvium	--	G

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CHAMBERS WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CW-1:		
Sand, silty, fine, light brown	1.0	1.0
Sand, coarse .....	.2	1.2
Sand, medium to coarse with clay layer .....	.1	1.3
Sand, coarse .....	.2	1.5
Sand, silty fine .....	.6	2.1
Clay, silty, dark red .....	.5	2.6
Sand, medium to coarse .....	.2	2.8
Clay, silty, dark red	1.5	4.3
Sand, silty, fine .....	.1	4.4
Clay .....	.2	4.6
Sand, silty, fine .....	.1	4.7
Clay .....	.2	4.9
Silt, sandy .....	.3	5.2
Silt, clayey .....	.6	5.8
Sand, fine .....	.6	6.4
Clay, sandy .....	.3	6.7
No return .....	.1	6.8
Clay, red .....	.4	7.2
Sand, light red .....	.4	7.6
Clay, tan .....	.3	7.9
Sand layer .....	.9	8.8
Clay layer .....	.2	9.0
Sand layer	3.5	12.5
Sand, clayey, medium to coarse .....	.5	13.0
Sand, fine, tan .....	.5	13.5
No return	8.1	21.6
Sand, silty, muddy	3.1	24.7
No return .....	.6	25.3
Silt .....	.8	26.1
Sand, silty, clay layers	2.9	29.0

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CHAMBERS WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CW-1—Continued:		
No return	1.8	30.8
Clay, gravel in middle zone; dark purple	1.2	32.0
CW-2:		
Sand, fine, reddish	1.2	1.2
Sand, fine, tan	1.2	2.4
Sand with clay, reddish .....	.9	3.3
Clay, sandy, darker red .....	.9	4.2
Sand, red, with clay layers .....	.6	4.8
No return .....	.9	5.7
Sand, silty, fine .....	.3	6.0
Clay, silty .....	.3	6.3
Silt, sandy	1.2	7.5
No return .....	.9	8.4
Sand and clay layers	1.5	9.9
No return	3.4	13.3
Sand, silty, brown	2.3	15.6
Sand, fine, tan	9.4	25.0
CW-3:		
Sand, silty, medium dark brown .....	.8	.8
Sand, silty, lighter brown .....	.9	1.7
Sand, silty, fine; some clay .....	.6	2.3
Sand, medium brown .....	.9	3.2
Clay .....	.5	3.7
No return .....	.1	3.8
Clay, reddish	1.7	5.5
No return .....	.7	6.2
Sand .....	.5	6.7
Clay .....	.3	7.0

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CHAMBERS WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CW-3—Continued:		
No return	4.6	11.6
Clay layer .....	.1	11.7
CW-4:		
Silt, tan .....	.3	.3
Sand, fine, light brown .....	.3	.6
Sand, fine, tan .....	.6	1.2
Sand, medium, reddish	1.8	3.0
Sand, red with silty clay layers	1.3	4.3
Sand, coarse, red .....	.3	4.6
Clay, red .....	.3	4.9
No return	6.1	11.0
Sand, silty, fine, brown	15.5	26.5
Sand, medium	3.0	29.5
Clay, purple	1.0	30.5
CW-5:		
Sand, fine, tan .....	.3	.3
Sand, medium, light tan .....	.6	.9
Sand, fine, tan .....	.6	1.5
Sand, fine, light brown	1.5	3.0
Clay and gravel .....	.9	3.9
Gravel and coarse sand .....	.6	4.5
Clay and coarse sand .....	.3	4.8
Sand with clay .....	.3	5.1
No return	6.6	11.7
Sand and clay layers	3.2	14.9
Sand, silty, fine	4.1	19.0
Clay .....	.8	19.8

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CHAMBERS WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CW-6:		
Silt, brown .....	.3	.3
Sand, fine, light tan .....	.6	.9
Sand, gravelly, fine, tan .....	.6	1.5
Sand, fine, tan .....	.6	2.1
Sand, clayey, fine, tan .....	.6	2.7
Sand, gravelly, fine, tan .....	.3	3.0
Sand, fine, reddish, with gravel and clay .....	.7	3.7
Sand, clayey, fine, reddish .....	.3	4.0
Sand, fine, reddish .....	.3	4.3
Clay, sandy, red .....	.1	4.4
No return	4.4	8.8
Clay, reddish .....	.3	9.1
CW-7:		
Sand, silty, fine, red .....	.6	.6
Sand, silty, red to tan .....	.6	1.2
Sand, fine, tan .....	.6	1.8
Sand, silty, fine, reddish .....	.5	2.3
Sand, coarse; with clay layer .....	.1	2.4
Sand, fine, tan .....	.6	3.0
Sand, fine to coarse, tan .....	.6	3.6
Sand, coarse to fine, tan .....	.6	4.2
Sand, fine, tan, slightly reddish .....	.6	4.8
Sand, fine, dark brown; with clay layer .....	.6	5.4
Sand, fine, tan .....	.1	5.5
Sand, coarse, red; with gravel .....	.5	6.0
Clay, sandy, reddish; with gravel .....	.6	6.6
Clay, silty, red; with fine sand layers .....	.6	7.2
Clay, reddish; fine sand layers, tan .....	.6	7.8

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CHAMBERS WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CV-7—Continued:		
Sand, fine, red .....	.6	8.4
Clay, red .....	.6	9.0
Clay, little sand	1.8	10.8
Sand, fine; clay layer .....	.6	11.4
Sand and silty clay .....	.6	12.0
No return	9.9	21.9
Sand, silty .....	.8	22.7
No return	4.6	27.3
Gravel	2.1	29.4
No return .....	.6	30.0
CV-8:		
Sand, silty, fine, reddish	3.7	3.7
Sand, silty, light tan	2.4	6.1
Sand, fine, tan	1.8	7.9
Sand, fine, reddish .....	.3	8.2
Clay, sandy, reddish	3.1	11.3
Clay, sandy, reddish-orange	1.2	12.5
Clay, sandy, reddish	1.5	14.0
No return	7.2	21.2
CV-9:		
Sand, silty, fine	5.2	5.2
Sand, fine, light tan .....	.6	5.8
No return	1.5	7.3
Clay layer	4.3	11.6
Clay, sandy, dark red	4.9	16.5

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

ADOT WELL CLUSTER

LOCATION—Lat 35°11'39" to 35°11'44", long 109°22'04" to 109°22'13", in secs. 27 and 28, T. 21 N., R. 28 E. (A-21-27)35 and (A-21-28)35, 3.0 km east of Chambers and 7 km southwest of Sanders.
Landowner: Wayne Lynch

LAND SURFACE DATUM—See table below.

DRILLING AND WELL CONSTRUCTION

The wells are cased with nominal 5-centimeter diameter, schedule 40, polyvinyl-chloride pipe. Each well is screened with a single length of slotted, 5-centimeter diameter, schedule 42, polyvinyl-chloride pipe. Each screen has 1,470 factory-cut slots 3.6 cm long by 0.64 mm wide for a total open area of 339 cm. The borehole annulus around the screen is filled with sand. The wells were developed by jetting high-pressure air horizontally through the screen to agitate the formation and air-lift water and sediment until no further visible sediment was removed.

LOGS: G, geologist; GA, gamma; GG, gamma-gamma; N, neutron

WELL	DATE COMPLETED	DRILLING METHOD	LAND SURFACE ALTITUDE (meters)	HOLE DEPTH (meters)	WELL DEPTH (meters)	SCREENED INTERVAL (meters)	GEOLOGIC UNIT	BOTTOM OF SEAL (meters)	LOGS AVAILABLE
AD-1	06-20-89	Hollow-stem auger	1,766.01	59.1	57.9	36.6-39.6	Alluvium	3.0	G,GA,GG,N
AD-2	06-21-89	Hollow-stem auger	1,765	24.5	23.5	18.0-19.5	Alluvium	4.6	G
AD-3	06-23-89	Hollow-stem auger	1,765.97	12.2	10.1	5.5- 8.5	Alluvium	4.6	G
AD-4	06-23-89	Hollow-stem auger	1,765.23	12.2	11.6	5.5- 8.5	Alluvium	4.6	G,GA,GG,N
AD-5	06-23-89	Hollow-stem auger	1,765.44	11.1	9.9	5.3- 8.5	Alluvium	4.3	G,GA,GG,N

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

ADOT WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
AD-1:		
Silt, tan .....	.3	.3
Silt, sandy, reddish-orange brown	3.0	3.3
Sand and silt, clayey, reddish-brown; forms 1/2 inch balls .....	.2	3.5
Silt, clayey, grayish-brown; higher clay fraction .....	.9	4.4
Clay and silt, sandy .....	.4	4.8
Clay, firm, 5YR 3/4 .....	.5	5.3
Sand, silty .....	.1	5.4
Sand, silty, 5YR 3/4 to 5YR 4/4 .....	.9	6.3
No return	5.9	12.2
Sand, silty, 5YR 3/4	1.5	13.7
Sand, silty, reddish-brown	3.1	16.8
Sand, silty, less red, slightly grayish-brown	1.5	18.3
Sand, silty, increase in silt fraction; reddish-brown to slightly orangish-brown	9.1	27.4
Sand, silty, reddish-brown	7.6	35.0
Sand, silty, reddish-brown, slightly grayish	3.1	38.1
Sand, silty, slightly yellowish-brown	1.5	39.6
Sand, silty, less yellow	1.5	41.1
Sand, silty, slightly yellowish-brown	4.6	45.7
Sand, silty, slightly yellowish-brown to grayish-brown	6.1	51.8
Sand, silty, dull yellowish-brown to brownish-gray	6.1	57.9
Sand, silty, slightly grayish-brown to yellowish-brown	1.2	59.1
AD-2:		
Silt, sandy, reddish-orange brown	3.6	3.6
Silt, sandy and clayey, reddish-brown; forms 1 inch clay balls ...	.5	4.1
Clay, silty, 5YR 3/4; crumbles with moderate pressure .....	.9	5.0
No return	7.3	12.3
Sand, silty, moderate brown	12.2	24.5

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

ADOT WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
AD-3:		
Silt, tan .....	.2	.2
Silt, light red	2.1	2.3
Sand, silty, reddish brown; with minor clay	1.8	4.1
Clay, dark red, 5YR 3/4, with minor silt	2.0	6.1
Sand, red	1.8	7.9
No return	3.7	11.6
Sand, red .....	.6	12.2
AD-4:		
Sand, silty, light brown	2.0	2.0
Sand, silty, light brown; sand and clay balls	1.5	3.5
Sand, with clay .....	.6	4.1
No return .....	.9	5.0
Sand, clayey, silty; clay is 5YR 3/4 .....	.9	5.9
No return	3.1	9.0
Sand, clayey, silty, reddish brown	3.2	12.2
AD-5:		
Silt, tan .....	.6	.6
Silt with sand, tan	1.4	2.0
Silt, sandy, brown	1.1	3.1
Silt, sandy, with clay, brown .....	.4	3.5
Sand, silty with clay, brown; predominantly clay balls (.6 to 1.3 cm) .....	.3	3.8
Sand, silty .....	.3	4.1
Clay, brownish-red, 5YR 3/4, dense .....	.3	4.4
Sand, red .....	.3	4.7
Clay, sandy, dark red	2.0	6.7
No return	1.5	8.2
Sand, silty, brownish-red	2.9	11.1

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CEDAR POINT WELL CLUSTER

LOCATION—Lat 35°14'07" to 35°14'15", long 109°16'56" to 109°17'07", in secs. 8, T. 21 N., R. 29 E.
(A-21-29)08, 3 km northeast of Sanders.

Landowner: New Lands

LAND SURFACE DATUM—See table below.

DRILLING AND WELL CONSTRUCTION

The wells are cased with nominal 5-centimeter diameter, schedule 40, polyvinyl-chloride pipe. Each well is screened with a single length of slotted, 5-centimeter diameter, schedule 42, polyvinyl-chloride pipe. Each screen has 1,470 factory-cut slots 3.6 cm long by 0.64 mm wide for a total open area of 339 cm. The borehole annulus around the screen is filled with sand. The wells were developed by jetting high-pressure air horizontally through the screen to agitate the formation and air-lift water and sediment until no further visible sediment was removed.

LOGS: G, geologist; GA, gamma; GG, gamma-gamma; N, neutron; --, no data

WELL	DATE COMPLETED	DRILLING METHOD	LAND SURFACE ALTITUDE (meters)	HOLE DEPTH (meters)	WELL DEPTH (meters)	SCREENED INTERVAL (meters)	GEOLOGIC UNIT	BOTTOM OF SEAL (meters)	LOGS AVAILABLE
CP-1	06-16-89	Hollow-stem auger	1,792.23	41.0	33.2	26.8-28.3	Chinle	2.4	G,GA,GG,N
CP-2	06-17-89	Hollow-stem auger	1,792.30	18.1	18.1	15.4-16.9	Alluvium	.9	G
CP-3	06-17-89	Hollow-stem auger	1,792.17	8.1	8.1	6.2- 7.8	Alluvium	1.8	G
CP-4	06-19-89	Hollow-stem auger	1,792.11	8.1	8.1	5.8- 7.3	Alluvium	4.0	G
CP-5	06-19-89	Hollow-stem auger	1,791.71	8.1	8.0	5.1- 7.7	Alluvium	4.6	G
CP-6	06-19-89	Hollow-stem auger	1,791.48	7.9	7.7	4.9- 7.6	Alluvium	4.0	G
CP-7	05-18-90	Reverse rotary	1,800	20.4	20.4	15.8-18.9	Chinle	32.0	--
CP-8	05-18-90	Reverse rotary	1,800	39.6	39.6	35.1-38.1	Chinle	12.8	G

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CEDAR POINT WELL CLUSTER—Continued

	Thickness (m)	Bottom of depth interval (m)
Summary of geologist log:		
CP-1:		
Sand, silty, very fine, light brown; loose	1.5	1.5
Silt, clayey, brown; moderately dense	1.4	2.9
Silt, brown .....	.1	3.0
Sand, silty, medium, brown .....	.1	3.1
Clay, silty, fine, brown, moderately dense; layers of silty sand ..	.5	3.6
Sand, silty, fine, red-brown; sandy silt with clay .....	.9	4.5
Clay, silty, brown, dense, low to moderate plasticity; coarse sand in bottom of core .....	.5	5.0
No return .....	.8	5.8
Sand, medium to coarse, brown, loose, some silt .....	.8	6.6
No return	3.0	9.6
Sand, silty, coarse	1.2	10.8
Sand, silty, coarse, red-brown; some 2-3 millimeters fragments	2.4	13.2
Sand, silty, medium	5.0	18.2
Clay, sandy	4.4	22.6
Silty, sandy mud; medium sand, some fine and coarse-grained	1.1	23.7
Sand, silty, clayey, medium to coarse-grained	2.9	26.6
No return	8.0	34.6
Sand, clayey, medium to coarse-grained	6.4	41.0
CP-2:		
Sand, tan to red to dark brown	3.5	3.5
Sand, reddish; clay balls, silt	3.1	6.6
Sand, more clay	1.5	8.1
Sand, fine; dark reddish-brown	3.0	11.1
No return	1.9	13.0
Sand, fine	4.4	17.4
Sand, coarse .....	.7	18.1

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CEDAR POINT WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CP-3:		
Sand, very fine; tan	3.5	3.5
Sand, silty, fine, reddish tan.....	2.1	5.6
Sand, silty, clayballs .....	.9	6.5
No return	1.6	8.1
CP-4:		
Sand, fine, tan to reddish-brown; few silt-clay balls	2.0	2.0
Sand, fine, brown; small silt-clay pellets; clay balls (1 cm)	3.5	5.5
Clay, brown; no clay balls .....	.5	6.0
No return	2.1	8.1
CP-5:		
Sand, fine, pale yellowish-brown; few clay balls at 1.5 m. (0.6 to 1.3 cm)	2.9	2.9
Sand, moderate brown (5YR 4/4) .....	.6	3.5
Clay, sandy	1.5	5.0
Sand, fine .....	.4	5.4
Clay .....	.1	5.5
Sand, fine .....	.3	5.8
Clay, sandy, fine .....	.2	6.0
No return	1.2	7.2
Clay, sandy, very fine .....	.3	7.5
Sand, medium brown; several cobbles; purple sandstone at bottom ...	.5	8.0
No return .....	.1	8.1

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CEDAR POINT WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CP-6:		
Sand, fine, moderate brown; very small, hard clay pellets	2.0	2.0
Sand, fine, mall, hard clay chunks; silt balls	1.5	3.5
Clay balls .....	.9	4.4
No return .....	.8	5.2
Clay balls	1.2	6.4
Sand	1.5	7.9
CP-8:.		
Sand, medium, some fine, brown	1.8	1.8
Clay balls	1.5	3.3
Sand, coarse .....	.9	4.2
Sand, clayey, coarse, brown	2.8	7.0
Sand, coarse to pebble fragments, angular, brown .....	.6	7.6
Clay, purple, with sandy layers .....	.5	8.1
Sand, coarse, brown .....	.3	8.4
Clay, purple, with sand .....	.6	9.0
Clay, brown .....	.5	9.5
Clay, purple	1.4	10.9
Clay, brown .....	.3	11.2
Clay, purplish-brown	1.2	12.4
Clay with sand, 1-2 millimeters grains; clay chips, purple	1.5	13.9
Clay, sandy, purple	4.0	17.9
Clay, sandy, purple and gray	2.5	20.4
Clay, sandy, brown and gray, less purple	1.2	21.6

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

CEDAR POINT WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
CP-8—Continued:		
Clay, sandy, brown and gray, less purple	1.2	21.6
Clay, sandy, gray/brown	2.2	23.8
Sand, very coarse, with some clay .....	.8	24.6
Sand, muddy, coarse, brown, broken chips of sandstone; fine, fresh sandstone	3.5	28.1
Mud-coarse sand; some clay; softer sandstone .....	.3	28.4
Sandstone, silty, medium; some clay .....	.8	29.2
Sandstone fragments, fine; some clay .....	.5	29.7
Sand, coarse; some clay .....	.3	30.0
Sand, medium; some clay	3.4	33.4
Sand, medium; sandstone chips, gray, with some clay	3.1	36.5
Sand, medium; some clay; sandstone fragments	3.1	39.6

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

QUERINO ROAD WELL CLUSTER

LOCATION—Lat 35°15'19", long 109°16'15", in sec. 33, T. 22 N., R. 29 E. (A-22-29)33cdd, 11 km southwest of Sanders on Querino Road.

Landowner: Navajo Indian Reservation

LAND SURFACE DATUM—See table below.

DRILLING AND WELL CONSTRUCTION

The wells are cased with nominal 5-centimeter diameter, schedule 40, polyvinyl-chloride pipe. Each well is screened with a single length of slotted, 5-centimeter diameter, schedule 42, polyvinyl-chloride pipe. Each screen has 1,470 factory-cut slots 3.6 cm long by 0.64 mm wide for a total open area of 339 cm. The borehole annulus around the screen is filled with sand. The wells were developed by jetting high-pressure air horizontally through the screen to agitate the formation and air-lift water and sediment until no further visible sediment was removed.

LOGS: G, geologist; GA, gamma; GG, gamma-gamma; N, neutron

WELL	DATE COMPLETED	DRILLING METHOD	LAND SURFACE ALTITUDE (meters)	HOLE DEPTH (meters)	WELL DEPTH (meters)	SCREENED INTERVAL (meters)	GEOLOGIC UNIT	BOTTOM OF SEAL (meters)	LOGS AVAILABLE
QR-1	06-14-89	Hollow-stem auger	1,796.55	48.3	34.7	31.7-33.2	Alluvium	3.4	G,GA,GG,N
QR-2	06-14-89	Hollow-stem auger	1,796.61	9.1	9.0	4.3- 7.5	Alluvium	2.4	G
QR-3	06-14-89	Hollow-stem auger	1,794.39	9.1	8.8	4.3- 7.5	Alluvium	1.2	G

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

QUERINO ROAD WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
QR-1:		
Sand, fine, tan .....	.6	.6
Sand, silty, tan .....	.6	1.2
Sand, silty, fine, reddish orange	1.5	2.7
Sand, silty, fine; clay balls, few pebbles .....	.9	3.6
Silt, tan; sand, fine, red; clay, brown .....	.6	4.2
Sand, fine to medium, tan; clay, dense, red with minor brown-yellowish clay streaks; contains small rock fragments and one pebble (4 cm), base of sample red fine to coarse sand (8 cm) .....	.8	5.0
No return	1.1	6.1
Silt, sandy, brownish-red	2.7	8.8
Sand, gravelly, clayey, reddish-brown	7.9	16.7
Silt, sandy, reddish-brown; some clay	18.3	35.0
Sand, silty, slightly reddish-brown to brown	3.1	38.1
Sand, silty, brown to grayish brown	2.4	40.5
No return	3.2	43.7
Sandstone, quartz, tan, well sorted .....	.7	44.4
Sandstone, silty, pale red .....	.7	45.1
Note: Upper 9 cm consists of gravel to cobble size rocks (angular to rounded, chert, mudstone and tan sandstone).		
Sandstone, pale red and reddish orange to dusky red	1.4	46.5
Sandstone, tan, contains mineralized fracture bisecting piece 18 cm in length at 47.0 to 47.2 m, yellowish-brown stain at top of fractured section about 2.5 cm inch deep.....	.8	47.3
Note: Upper 15 cm of core barrel contained sand to cobble size material, disaggregated; gravel size consists of angular to subangular fragments of chert, sandstone and siltstone; pebble and cobble size rocks subrounded to rounded, well indurated mudstone (which make up about 40% of sample; gravel-size rocks and chips comprise another 40%). Sand is loose, subangular to subrounded quartz and makes up remaining 20% of sample. Tan sandstone chips (gravel size) make up about 40% of gravel.		

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

QUERINO ROAD WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
QR-1—Continued:		
Sandstone, tan, less fractured; tighter .....	.9	48.2
Sandstone, clay, light gray to greenish-white; sand and sandstone fragments .....	.1	48.3
QR-2:		
Sand, silty, medium .....	.6	.6
Sand, silty, medium, red-brown	1.8	2.4
Sand, coarse .....	.9	3.3
No return .....	.3	3.6
Clay, silty, brown .....	.6	4.2
Sand, clayey, red-brown .....	.6	4.8
No return	4.3	9.1
QR-3:		
Sand, silty, medium, tan .....	.8	.8
Sand, silty, coarse, brown	5.0	5.8
Sand, silty, coarse; with gravel .....	.9	6.7
No return .....	.9	7.6
Sand, silty, coarse, with gravel	1.5	9.1

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

LUPTON WELL CLUSTER

LOCATION—Lat 35°19'28" to 35°19'30", long 109°04'24" to 109°04'27", in sec. 8, T. 22 N., R. 31 E.
(A-22-31)08, 30 km southwest of Gallup.
Landowner: New Lands

LAND SURFACE DATUM—See table below.

DRILLING AND WELL CONSTRUCTION

The wells are cased with nominal 5-centimeter diameter, schedule 40, polyvinyl-chloride pipe. Each well is screened with a single length of slotted, 5-centimeter diameter, schedule 42, polyvinyl-chloride pipe. Each screen has 1,470 factory-cut slots 3.6 cm long by 0.64 mm wide for a total open area of 339 cm. The borehole annulus around the screen is filled with sand. The wells were developed by jetting high-pressure air horizontally through the screen to agitate the formation and air-lift water and sediment until no further visible sediment was removed.

LOGS: G, geologist; GA, gamma; GG, gamma-gamma; N, neutron

WELL	DATE COMPLETED	DRILLING METHOD	LAND SURFACE ALTITUDE (meters)	HOLE DEPTH (meters)	WELL DEPTH (meters)	SCREENED INTERVAL (meters)	GEOLOGIC UNIT	BOTTOM OF SEAL (meters)	LOGS AVAILABLE
LPT-1	05-14-90	Hollow-stem auger	1,788.52	21.6	21.6	14.0-15.5	Alluvium	1.5	G
LPT-2	05-14-90	Hollow-stem auger	1,788.76	6.1	6.1	3.0- 4.6	Alluvium	0.6	G
LPT-3	05-15-90	Hollow-stem auger	1,860	8.1	8.1	1.8- 5.0	Alluvium	0.9	G
LPT-4	05-15-90	Hollow-stem auger	1,860	9.1	9.0	2.9- 5.9	Alluvium	0.9	G

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

LUPTON WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of Depth Interval (m)
Lupton-1:		
Sand, fine, reddish-brown	1.2	1.2
Sand, fine, grayish; some silt or mud	1.2	2.4
Sand, fine, grayish-black .....	.9	3.3
Sand, fine, grayish-brown	1.2	4.5
Clay lumps, dark greenish-gray; fine sand	1.2	5.7
Clay, green-gray; 2.5 cm lumps	1.2	6.9
Clay, dark greenish-gray; sand; medium-fine	8.2	15.1
Sand, dark greenish-gray	1.2	16.3
Sand, brownish, slightly purple	2.8	19.1
Sand, medium; reddish-brown	2.5	21.6
Lupton-2:		
Sand, medium, brown	1.7	1.7
Sand, medium, brown to greenish-gray	1.7	3.4
Sand, medium-fine, dark greenish-gray	2.7	6.1
Lupton-3:		
Sand, fine, reddish-brown	2.0	2.0
Sand, medium, greenish-brown-gray	1.5	3.5
Sand, greenish	4.6	8.1
Lupton-4:		
Sand, reddish-brown .....	.9	.9
Sand, reddish-brown; some clay chunks .....	.5	1.4
Clay, reddish .....	.8	2.2
Clay, greenish .....	.5	2.7
Sand, fine to medium; light brown .....	.5	3.2
No return	1.5	4.7
Sand, greenish .....	.1	4.8
Sand, fine, greenish-brown	2.7	7.5
Sand, medium to fine, some clay; dark greenish	1.6	9.1

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

MANUELITO WELL CLUSTER

LOCATION—Lat 35°27'42" to 35°27'43", long 108°56'33" to 108°56'34", in sec. 10, T. 14 N., R. 20 W.,
20 km southwest of Gallup.
Landowner: Toby Martinez

LAND SURFACE DATUM—See table below.

DRILLING AND WELL CONSTRUCTION

The wells are cased with nominal 5-centimeter diameter, schedule 40, polyvinyl-chloride pipe. Each well is screened with a length of slotted, 5-centimeter diameter, schedule 42, polyvinyl-chloride pipe. Each screen has 1,470 factory-cut slots 3.6 cm long by 0.64 mm wide for a total open area of 339 cm. The borehole annulus around the screen is filled with sand. The wells were developed by jetting high-pressure air horizontally through the screen to agitate the formation and air-lift water and sediment until no further visible sediment was removed.

LOGS: G, geologist; GA, gamma; GG, gamma-gamma; N, neutron; --, no data

WELL	DATE COMPLETED	DRILLING METHOD	LAND SURFACE ALTITUDE (meters)	HOLE DEPTH (meters)	WELL DEPTH (meters)	SCREENED INTERVAL (meters)	GEOLOGIC UNIT	BOTTOM OF SEAL (meters)	LOGS AVAILABLE
MAN-1	05-23-90	Hollow-stem auger	1,910	24.8	24.8	21.8-23.3	Alluvium	7.0	G
MAN-2	05-24-90	Hollow-stem auger	1,910	13.7	13.7	7.6-10.7	Alluvium	7.0	--
MAN-3	05-23-90	Hollow-stem auger	1,910	15.7	15.7	9.6-14.2	Alluvium	5.5	G

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

MANUELITO WELL CLUSTER—Continued

Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
MAN-1:		
Silt, sandy, clayey, brown, poorly sorted .....	.5	.5
Clay, silty, light brown, very dense .....	.9	1.4
Clay, silty, dark brown, very dense .....	.8	2.2
Sand, silty, fine, poorly sorted, golden brown .....	.5	2.7
Clay, dark brown	1.1	3.8
Sand, silty, fine, poorly sorted, light brown; with silty layers; gradation into clay above	2.0	5.8
Silt, sandy, fine, laminations, brownish-orange, 1/2 to 1 cm .....	.6	6.4
Sand, silty, fine to medium, moderately well sorted, brown	1.1	7.5
Clay, dark brown, slightly fat, with laminations .....	.3	7.8
Sand, clayey, medium, poorly sorted, brown; with pieces of organics .....	.9	8.7
Clay, brown, moderately fat	1.8	10.5
No return	5.8	16.3
Clay, brown	1.3	17.6
Silt, sandy, brown .....	.7	18.3
Interbedded mud, clay and sand, brown	6.5	24.8

GROUND-WATER DATA—Continued

WELL CONSTRUCTION AND LITHOLOGY—Continued

MANUELITO WELL CLUSTER—Continued

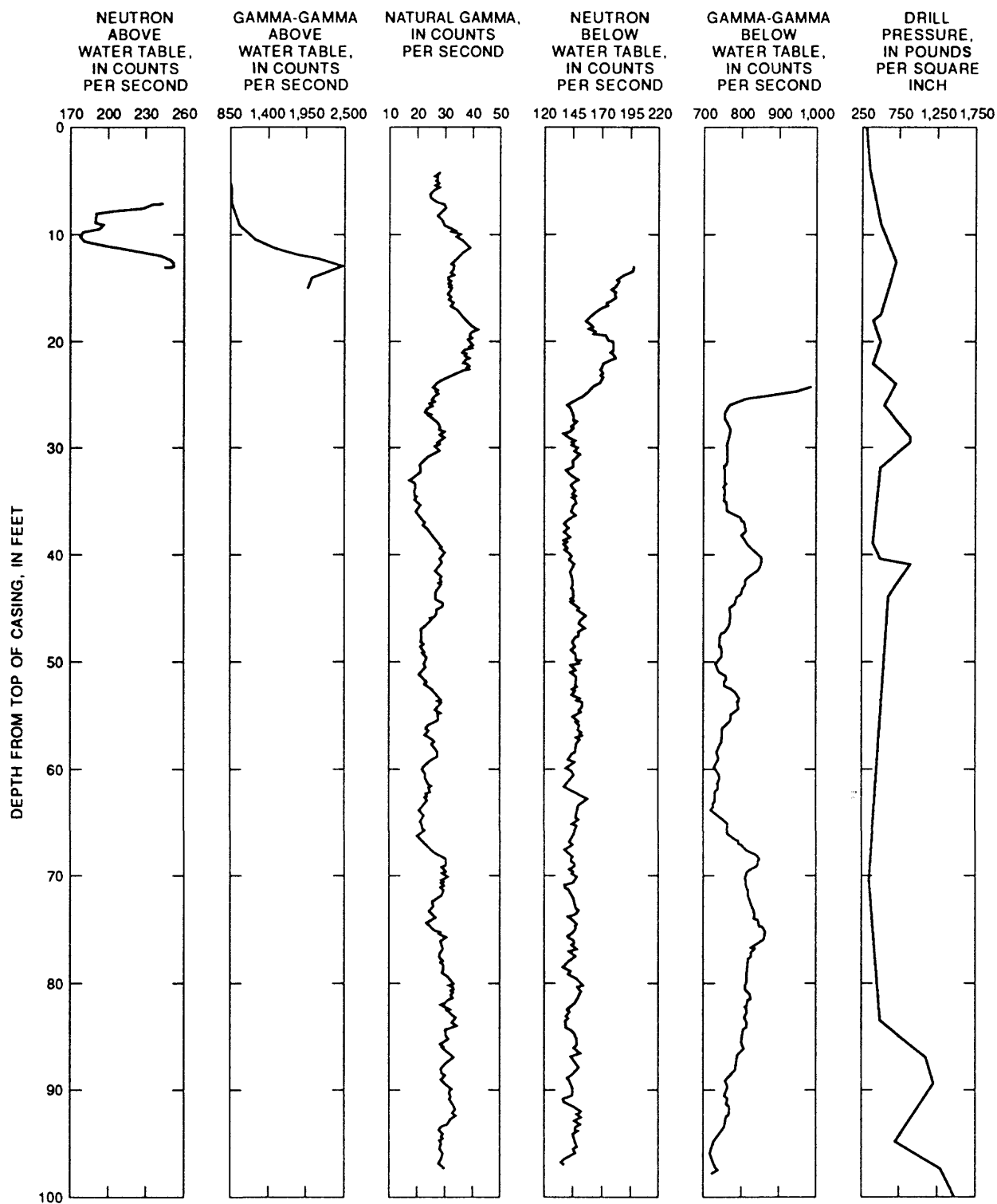
Summary of geologist log:	Thickness (m)	Bottom of depth interval (m)
MAN-3:		
Silt, sandy, fine, moderately sorted, brown	1.4	1.4
Clay, silty, very lean; appears gradational to silt above; brown ..	1.7	3.1
Clay, silty, more clay, less silt	1.8	4.9
Silt, sandy, very fine; moderately sorted, brown; appears non-gradational with above clay	1.2	6.1
Sand, silty, very fine to fine; moderately well sorted; brown	1.5	7.6
Clay, silty, lean; brown .....	.8	8.4
Sand, silty, fine to medium, moderately well sorted, brown .....	.3	8.7
Clay, sandy, silty, brown .....	.6	9.3
Sand, clayey, silty; fine and sandy clay, poorly sorted, brown ....	.5	9.8
Clay, silty, brown	1.2	11.0
Clay .....	.5	11.5
No return	3.5	15.0
Clay .....	.7	15.7

GROUND-WATER DATA—Continued

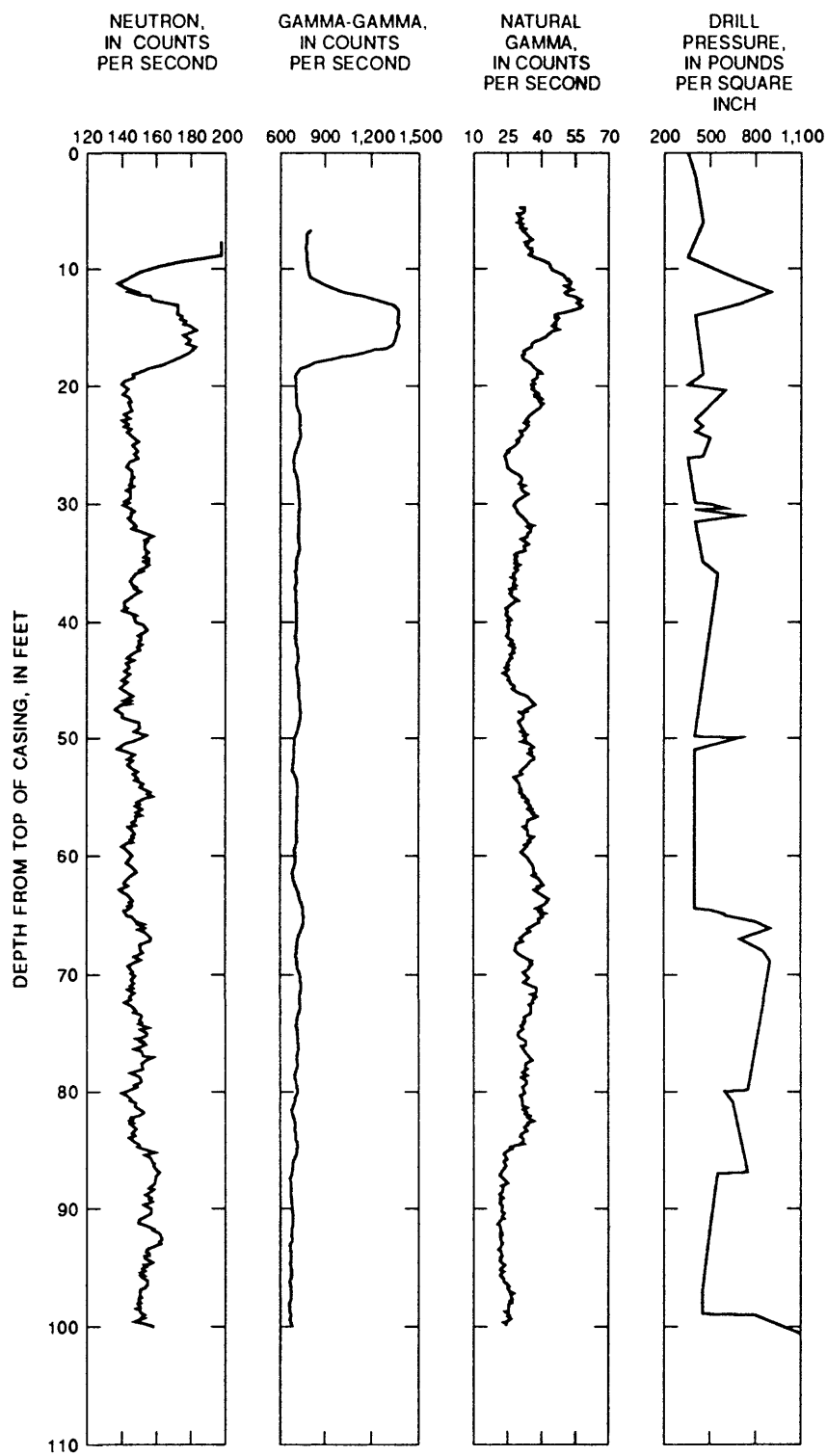
GEOPHYSICAL LOGS

CHAMBERS WELL CLUSTER

STATION NUMBER 351043109270301 (CW-1)



GROUND-WATER DATA—Continued
 GEOPHYSICAL LOGS—Continued
 CHAMBERS WELL CLUSTER—Continued
 STATION NUMBER 351038109270801 (CW-4)

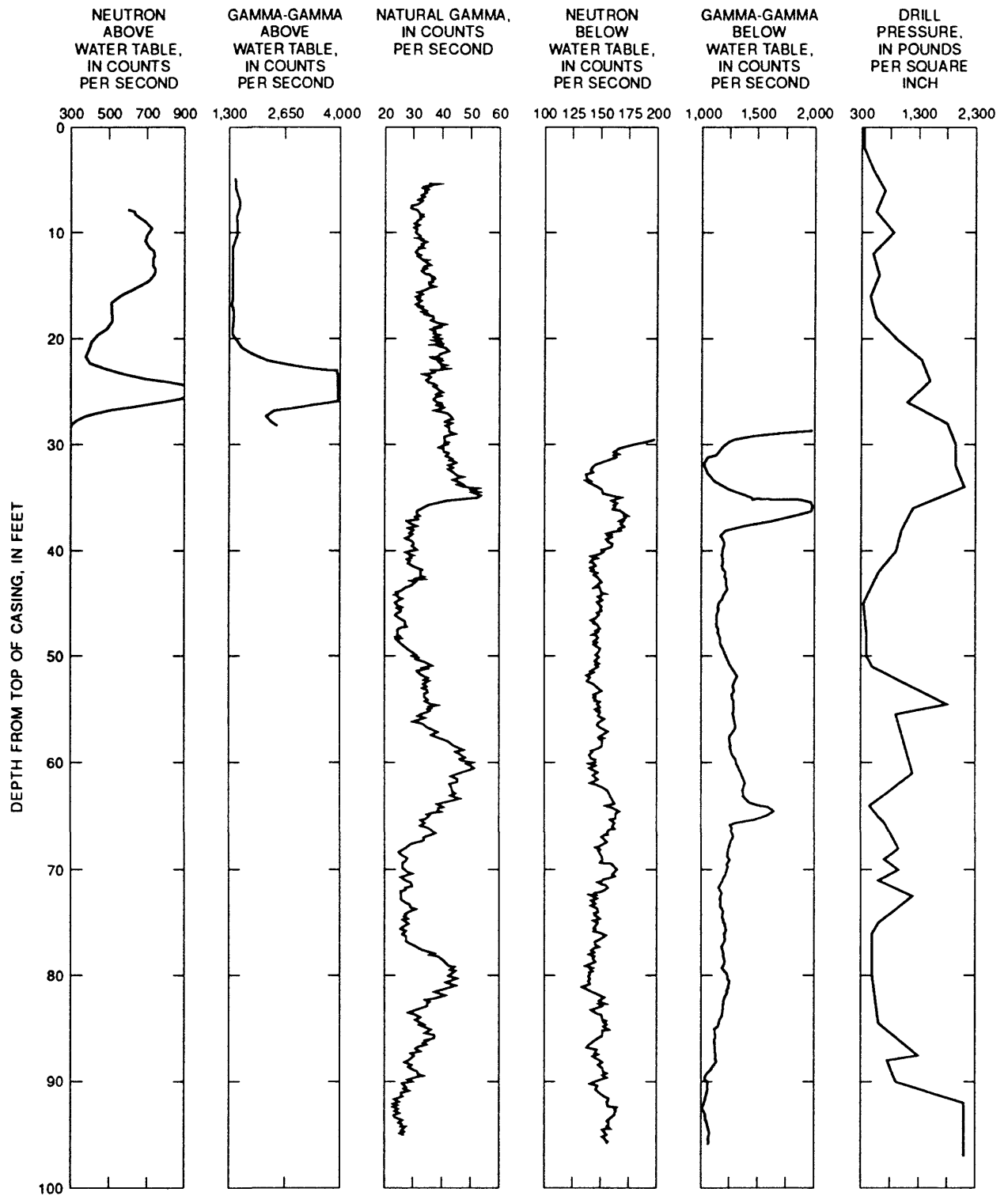


GROUND-WATER DATA—Continued

GEOPHYSICAL LOGS—Continued

CHAMBERS WELL CLUSTER—Continued

STATION NUMBER 351039109270001 (CW-7)

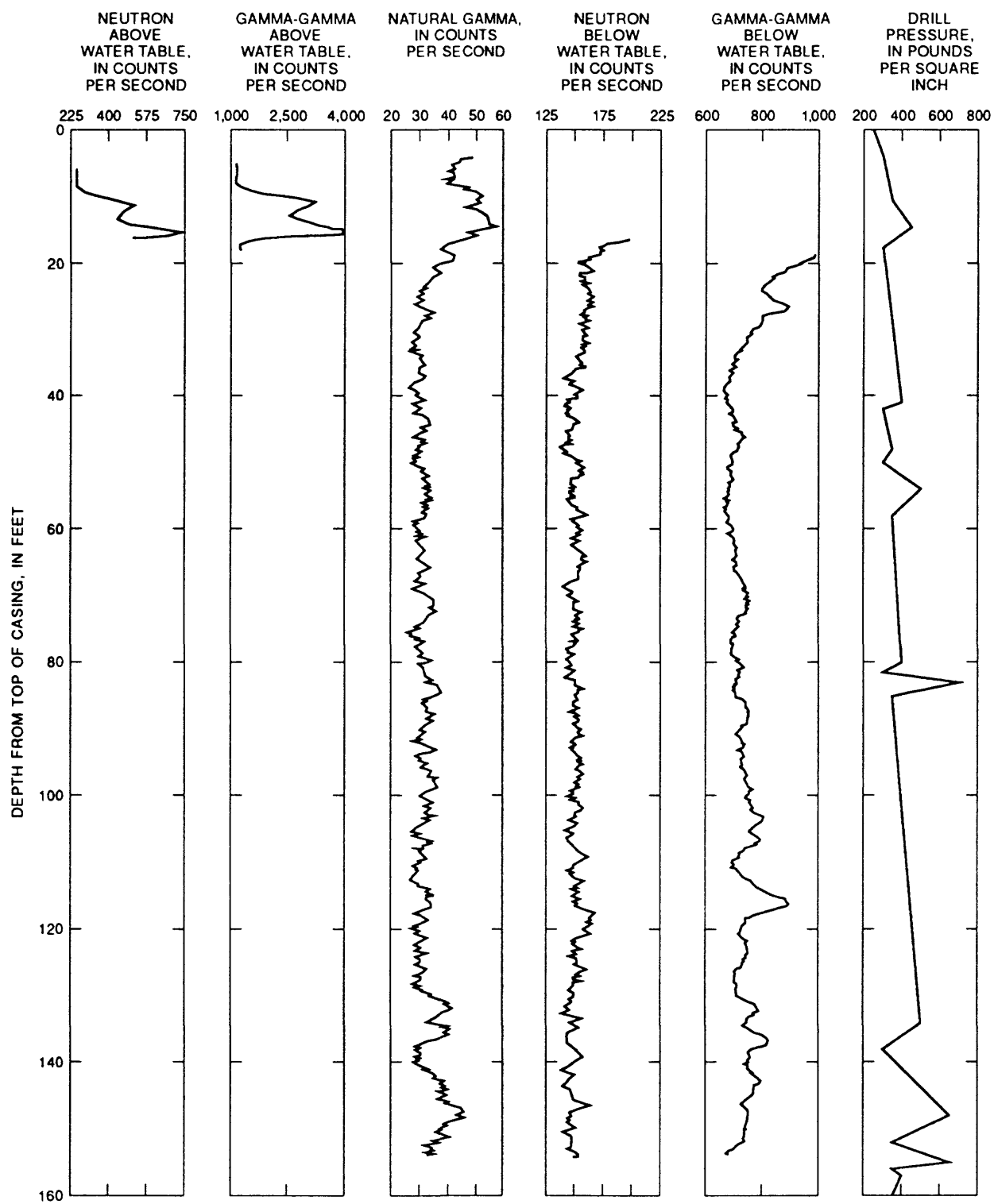


GROUND-WATER DATA—Continued

GEOPHYSICAL LOGS—Continued

ADOT WELL CLUSTER

STATION NUMBER 351140109220901 (AD-1)

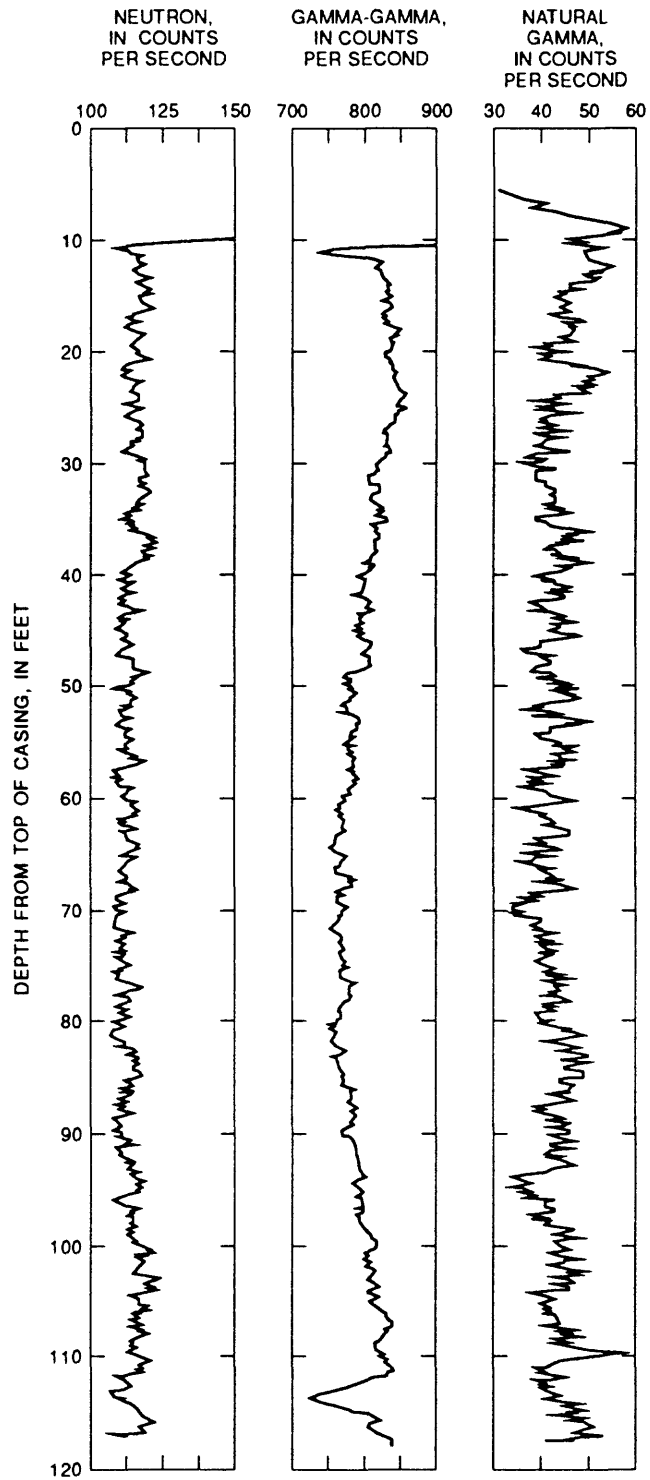


GROUND-WATER DATA—Continued

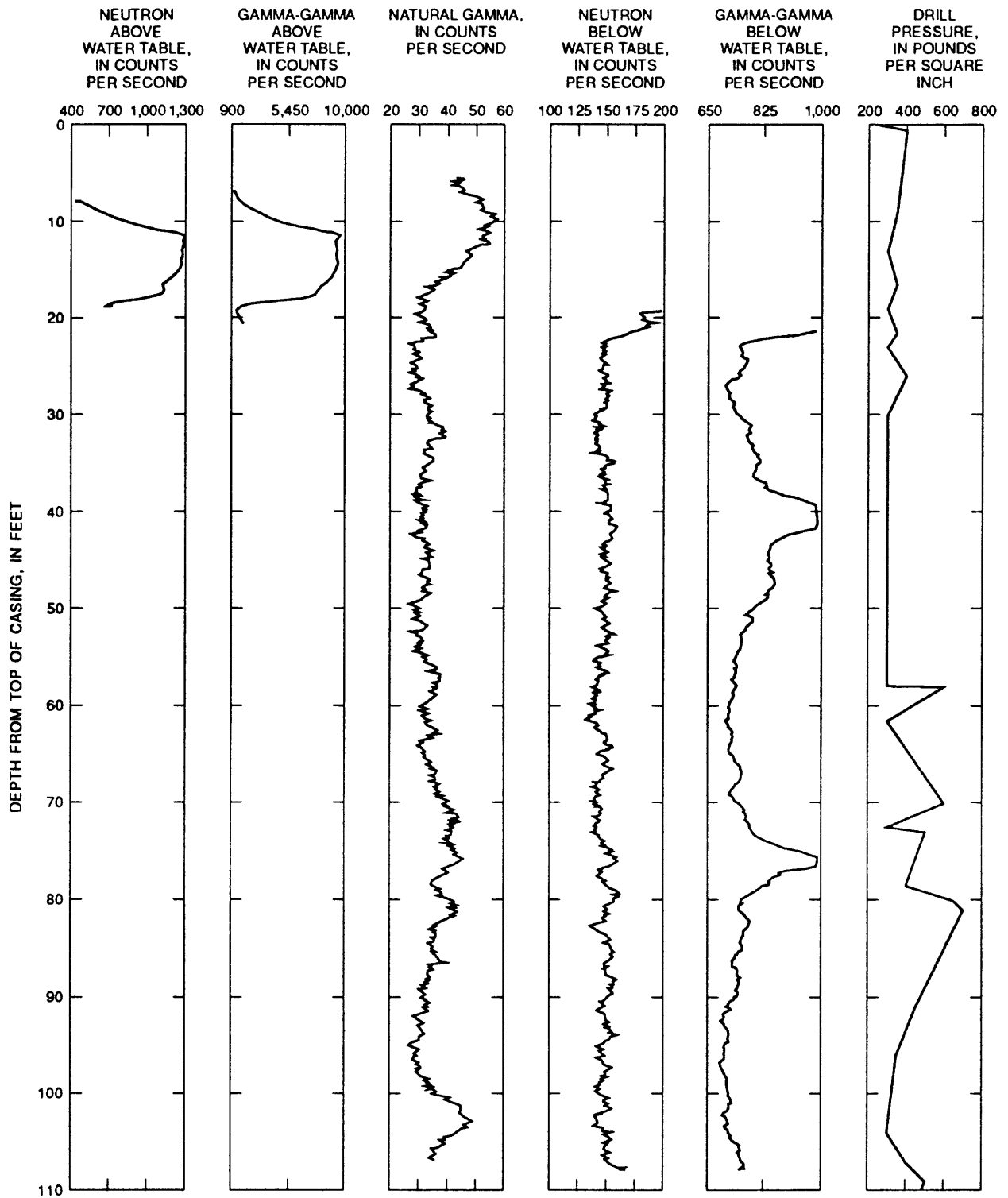
GEOPHYSICAL LOGS—Continued

ADOT WELL CLUSTER—Continued

STATION NUMBER 351144109220701 (AD-4)



GROUND-WATER DATA—Continued
 GEOPHYSICAL LOGS—Continued
 CEDAR POINT WELL CLUSTER
 STATION NUMBER 351411109170701 (CP-1)

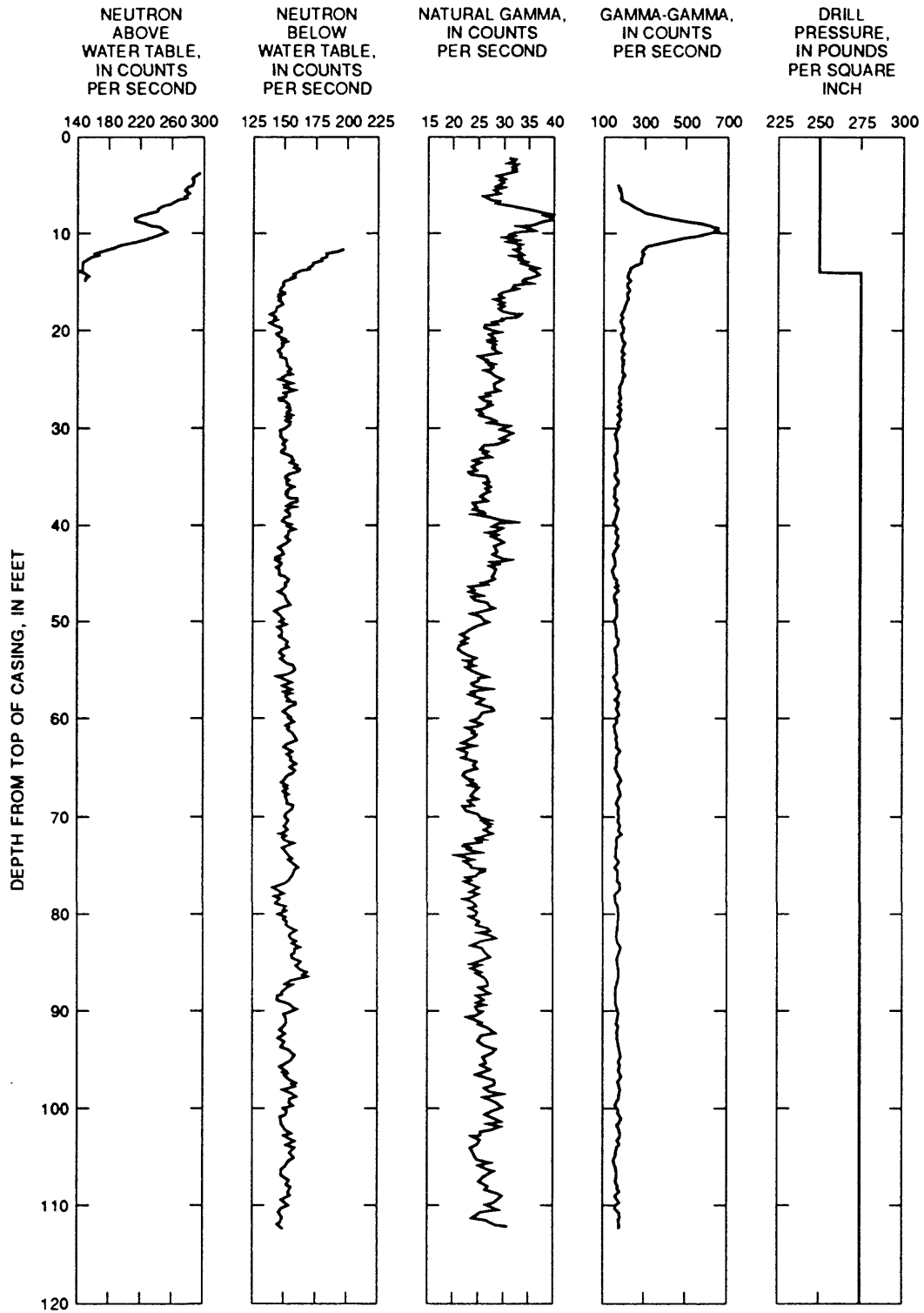


GROUND-WATER DATA—Continued

GEOPHYSICAL LOGS—Continued

QUERINO ROAD WELL CLUSTER

STATION NUMBER 351519109161501 (QR-1)

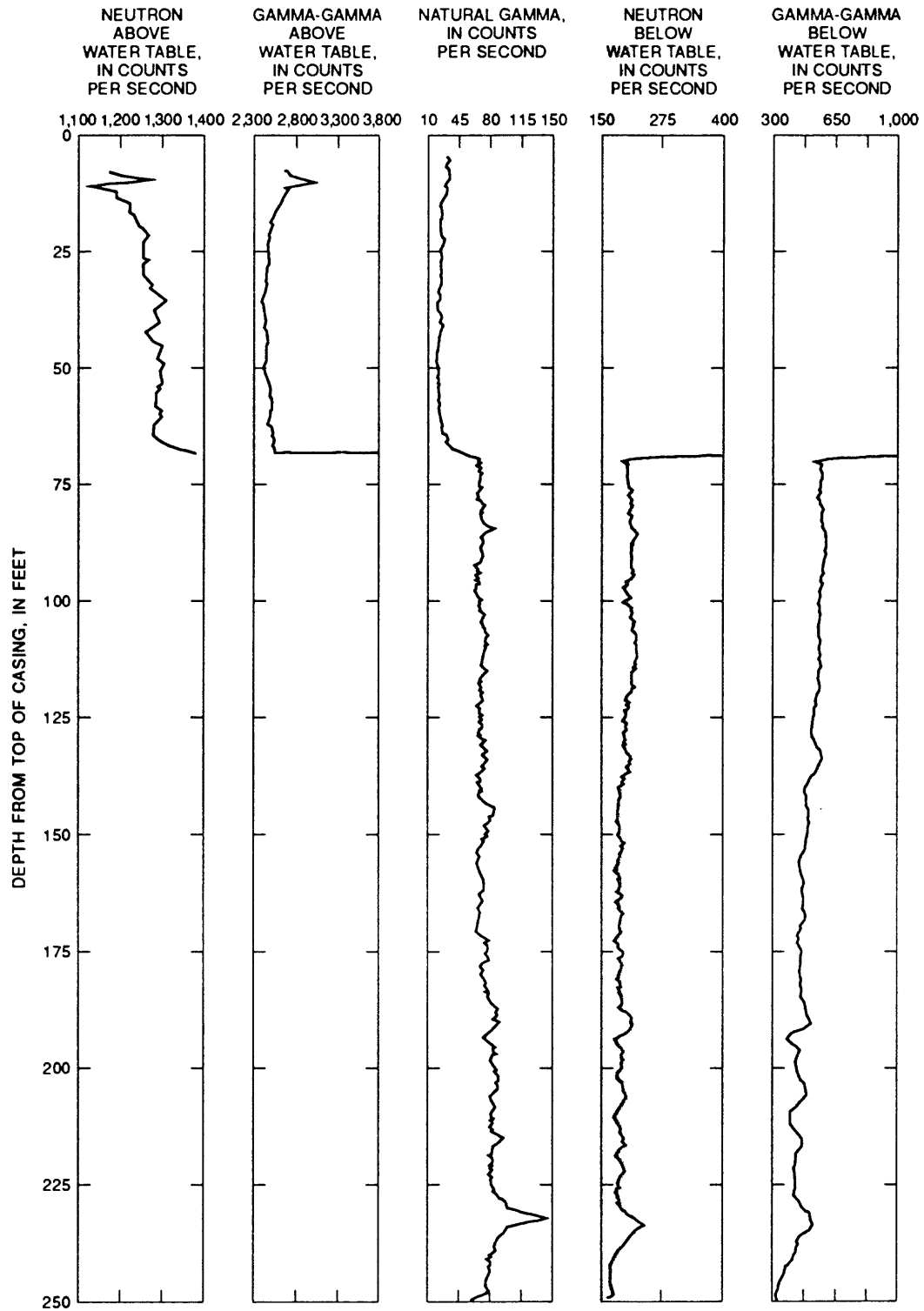


GROUND-WATER DATA—Continued

GEOPHYSICAL LOGS—Continued

ADOT YARD

STATION NUMBER 351202109233001

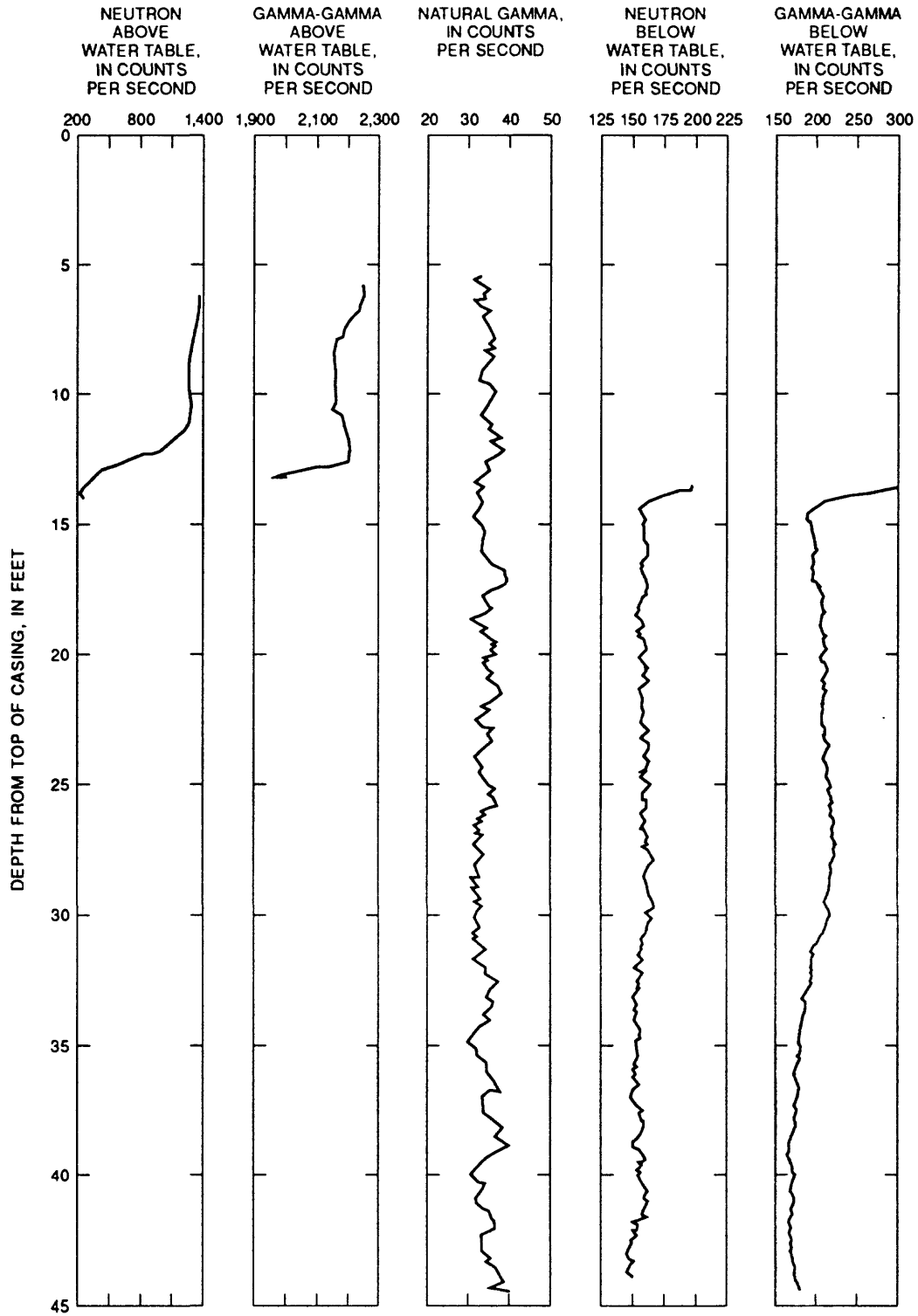


GROUND-WATER DATA—Continued

GEOPHYSICAL LOGS—Continued

PAULSELL RANCH, PETRIFIED FOREST

STATION NUMBER 345757109482001

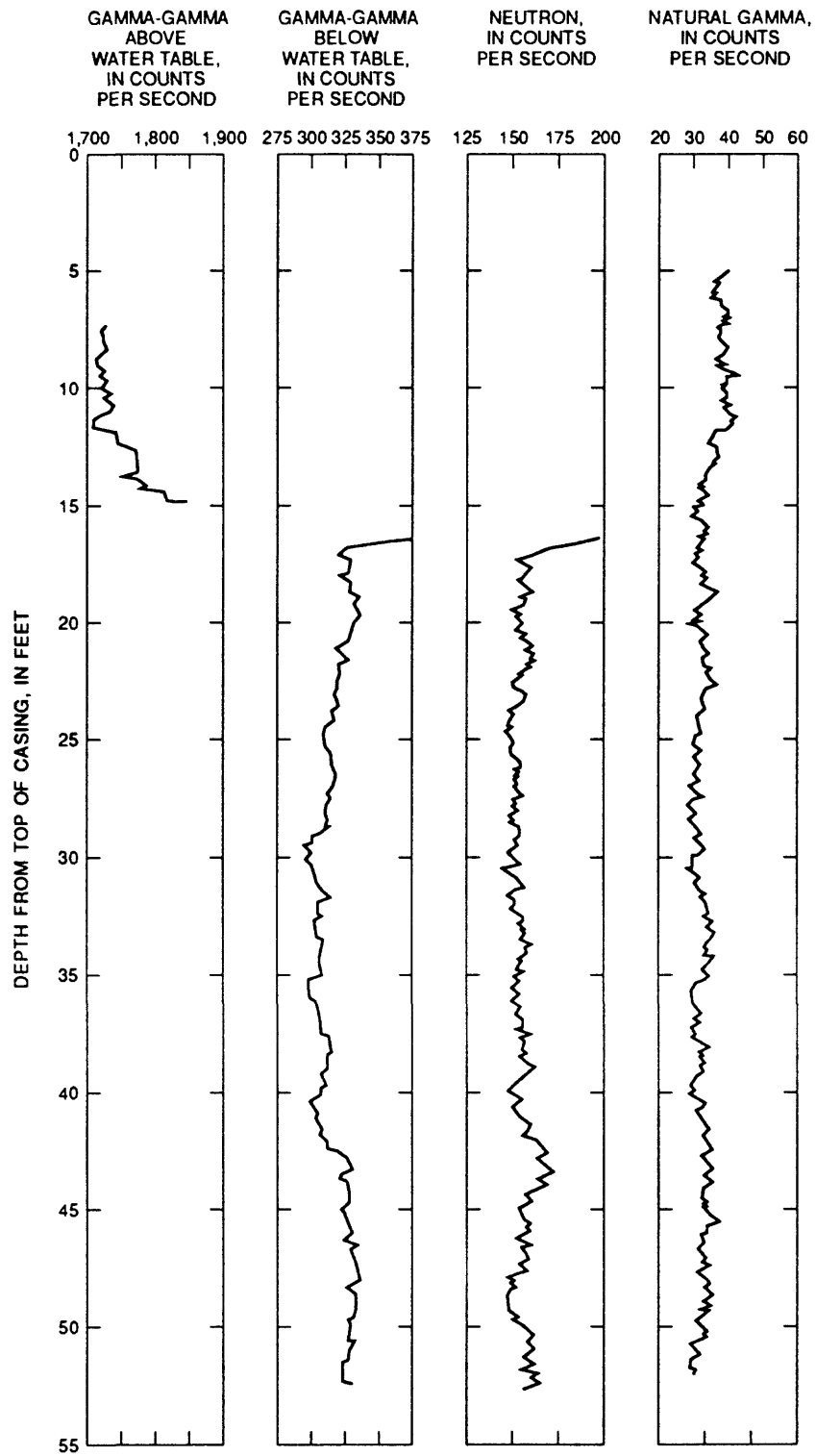


GROUND-WATER DATA—Continued

GEOPHYSICAL LOGS—Continued

PAULSELL RANCH, PINTA

STATION NUMBER 350338109384801

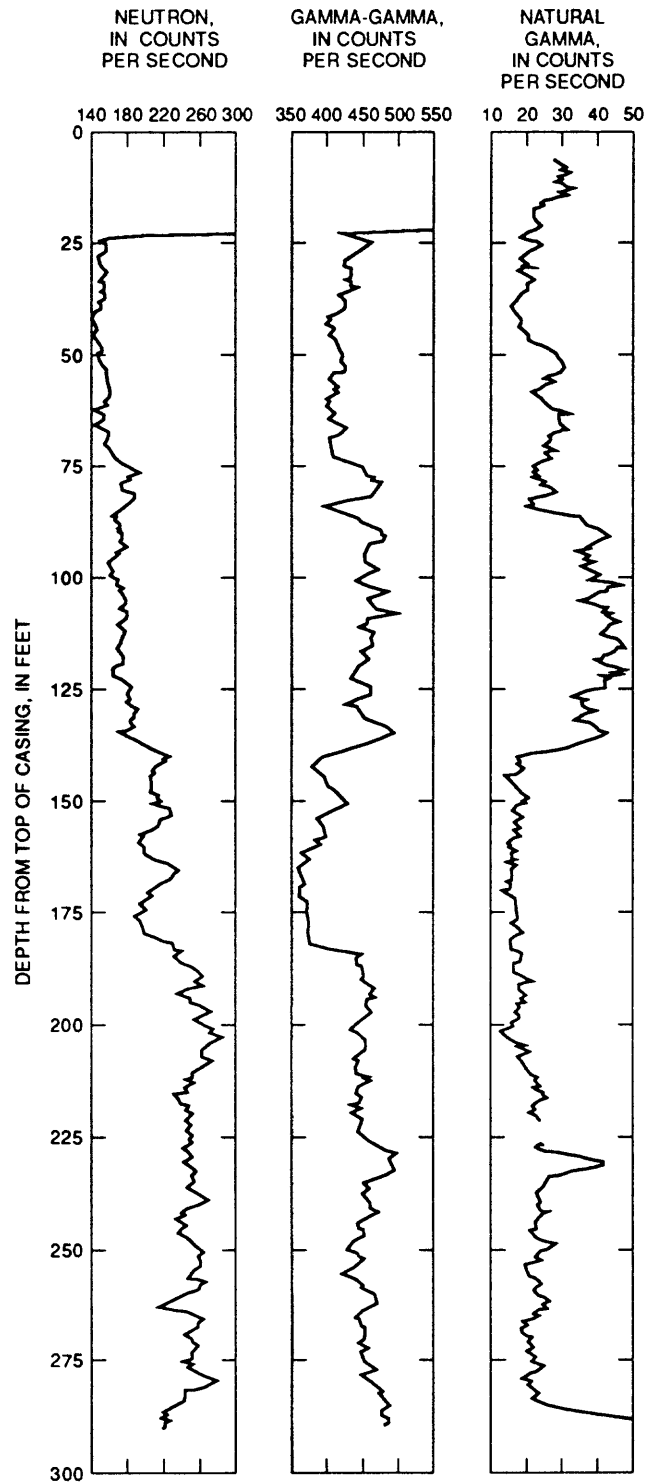


GROUND-WATER DATA—Continued

GEOPHYSICAL LOGS—Continued

SANDERS SCHOOL

STATION NUMBER 351254109194501



GROUND-WATER DATA

CHEMICAL ANALYSES

[ND, not detected; dashes, no data; E, estimated; <, less than; °C, degrees Celsius; NGVD, National Geodetic Vertical Datum; m³/s, cubic meters per second, μS/cm, microsiemens per centimeter; ac-ft, acre-feet; mg/L, milligrams per liter; μg/L, micrograms per liter; pCi/L, picocuries per liter; pCi/g, picocuries per gram; NTU, nephelometric-turbidity units; mV, millivolt; DS, dry sieve; ‡, value exceeds USEPA Maximum Contaminant Level; §, value exceeds USEPA Secondary Maximum Contaminant Level; *, value considered poor; i, indeterminate value].

STATION NAME	STATION NUMBER	DATE	TIME	LATITUDE	LONGITUDE
CHAMBERS WELL CLUSTER					
CW-1	351043109270301	12-09-88	1000	35°10'43"N	109°27'03"W
CW-1		11-16-89	1100		
CW-1		05-02-90	1110		
CW-1		05-02-90	1210		
CW-2	351043109270302	12-09-88	1030	35°10'43"N	109°27'03"W
CW-2		12-09-88	1200		
CW-2		11-16-89	1100		
CW-2		05-02-90	1400		
CW-2		05-02-90	1530		
CW-3	351043109270303	12-09-88	1600	35°10'43"N	109°27'03"W
CW-3		11-15-89	1445		
CW-3		05-02-90	1530		
CW-4	351038109270801	12-07-88	1623	35°10'38"N	109°27'08"W
CW-4		11-15-89	1130		
CW-4		05-02-90	1715		
CW-5	351038109270802	12-08-88	1300	35°10'38"N	109°27'08"W
CW-5		11-15-89	1245		
CW-5		10-31-90	1350		
CW-6	351038109270803	12-08-88	1603	35°10'38"N	109°27'08"W
CW-6		11-15-89	1415		
CW-6		10-31-90	1720		
CW-7	351039109270001	12-06-88	1100	35°10'39"N	109°27'00"W
CW-7		11-14-89	1710		
CW-7		11-01-90	1150		
CW-8	351039109270002	12-06-88	1632	35°10'39"N	109°27'00"W
CW-8		11-14-89	1600		
CW-8		10-18-90	1455		
CW-9	351039109270003	12-06-88	1130	35°10'39"N	109°27'00"W
CW-9		11-15-89	0940		
CW-9		10-18-90	1545		
CW-9		10-18-90	1600		
CDP-01	351044109270501	08-11-88	1400	35°10'44"N	109°27'05"W
CDP-01		12-07-88	1215		
CDP-01		11-16-89	1430		
CDP-01		10-17-90	1310		
CDP-02	351044109270502	08-11-88	1630	35°10'44"N	109°27'05"W
CDP-02		11-16-89	1610		
CDP-03	351044109270503	12-08-88	1400	35°10'44"N	109°27'05"W
CDP-03		04-04-89	1045		
CDP-04	351045109270601	08-11-88	1800	35°10'45"N	109°27'06"W

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (METERS) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS) (72019)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	FLOW, RATE INSTANTANEOUS (m ³ /s) (00059)	TEMPERATURE WATER (°C) (00010)	TURBIDITY (NTU) (00076)	OXIDATION-REDUCTION POTENTIAL (mV) (00090)	SPECIFIC CONDUCTANCE (μS/cm) (00095)
CHAMBERS WELL CLUSTER—Continued										
CW-1	12-09-88	1744.22	32.0	--	--	ND	12.0	--	-105	--
	11-16-89			4.28	40	.0004	9.0	--	213	--
	05-02-90			4.21	45	.0027	13.0	--	22	1510
	05-02-90			4.21	45	.0027	13.0	--	--	1510
CW-2	12-09-88	1743.85	25.0	--	--	.0038	12.5	--	77	1030
	12-09-88			--	40	.0004	9.0	--	--	--
	11-16-89			--	--	--	--	--	--	--
	05-02-90			3.41	30	.0027	12.5	--	162	982
	05-02-90			--	--	--	--	--	--	--
CW-3	12-09-88	1744.31	11.7	--	--	.0038	12.5	--	217	1100
	11-15-89			3.68	30	.0011	12.5	--	37	969
	05-02-90			3.64	45	.0027	12.0	--	166	1080
CW-4	12-07-88	1743.09	30.5	--	--	--	14.5	--	21	999
	11-15-89			3.20	28	.0019	14.5	--	-52	927
	05-02-90			3.12	45	.0027	14.0	--	44	988
CW-5	12-08-88	1743.02	19.8	--	--	--	14.0	--	98	956
	11-15-89			3.25	24	.0019	13.5	--	6	888
	10-31-90			4.05	52	--	15.0	--	145	951
CW-6	12-08-88	1743.14	9.1	--	--	--	14.5	--	278	1370
	11-15-89			3.38	52	.0019	15.0	--	40	1140
	10-31-90			3.86	55	--	15.0	--	190	1120
CW-7	12-06-88	1748.75	30.0	--	--	--	14.0	1.0	160	967
	11-14-89			8.68	20	.0030	14.0	--	11	1040
	11-01-90			9.16	--	--	14.0	--	110	1080
CW-8	12-06-88	1748.88	21.2	--	--	.0038	13.5	1.4	244	980
	11-14-89			8.81	60	.0019	14.0	--	168	1040
	10-18-90			9.30	34	.0023	15.5	--	212	1040
CW-9	12-06-88	1748.81	16.5	--	--	.0038	14.0	1.2	282	1210
	11-15-89			--	30	.0019	13.5	--	140	1160
	10-18-90			9.28	27	.0030	15.0	--	209	1180
	10-18-90			9.28	27	.0030	15.0	--	209	1180
CDP-01	08-11-88	1740	--	--	--	--	20.0	6.0	78	1100
	12-07-88		--	--	--	--	7.0	--	126	1060
	11-16-89		.69	.69	45	.0004	14.0	--	138	1070
	10-17-90		--	--	--	.0011	16.5	--	120	1290
CDP-02	08-11-88	1740	--	--	--	--	--	--	--	--
	11-16-89		--	.67	52	.0008	10.5	--	129	1340
CDP-03	12-08-88	1740	--	--	--	--	13.0	--	209	1010
	04-04-89		4.7	--	--	--	11.0	.20	113	1050
CDP-04	08-11-88	1740.87	--	--	--	--	20.0	--	--	1260

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SPECIFIC CONDUCTANCE LAB (μS/cm) (90095)	OXYGEN, DIS-SOLVED (mg/L) (00300)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (mg/L) (00340)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	PH WATER WHOLE LAB (STANDARD UNITS) (00403)	ALKALINITY WAT DIS FIX END FIELD CaCO3 (mg/L) (39036)	ALKALINITY WAT DIS TOT IT FIELD CaCO3 mg/L as CaCO3 (39086)	ALKALINITY LAB (mg/L as CaCO3) (90410)
CHAMBERS WELL CLUSTER—Continued									
CW-1	12-09-88	1760	5.6	120	7.7	8.1	970	992	959
	11-16-89	1720	8.5	--	7.7	8.3	860	869	--
	05-02-90	1570	--	--	7.5	8.0	810	812	--
	05-02-90	1570	.1	--	7.5	7.9	--	812	--
CW-2	12-09-88	972	ND	10	7.5	8.0	219	--	213
	12-09-88	965	8.5	11	7.7	8.0	870	--	214
	11-16-89	--	--	--	--	--	--	--	--
	05-02-90	962	.1	--	7.5	7.9	200	203	--
	05-02-90	--	--	--	--	--	--	--	--
CW-3	12-09-88	--	--	14	7.4	--	238	--	--
	11-15-89	1040	.04	--	7.3	7.8	240	242	--
	05-02-90	1050	.03	--	7.4	7.8	230	230	--
CW-4	12-07-88	976	ND	11	7.3	7.8	231	--	231
	11-15-89	291	.03	--	7.2	7.6	230	232	--
	05-02-90	960	.03	--	7.3	7.7	220	220	--
CW-5	12-08-88	940	ND	<10	7.2	8.3	233	--	236
	11-15-89	948	.04	--	7.2	7.8	230	233	--
	10-31-90	945	.4	--	7.1	7.7	240	238	241
CW-6	12-08-88	1360	2.9	<10	7.3	7.9	255	--	258
	11-15-89	1170	.9	--	7.2	7.7	240	243	--
	10-31-90	1120	.7	--	7.1	7.7	240	240	247
CW-7	12-06-88	1020	ND	46	7.4	7.9	238	--	234
	11-14-89	1040	.03	--	7.3	7.8	230	229	--
	11-01-90	1060	.4	--	7.4	7.7	240	236	232
CW-8	12-06-88	1040	.03	--	7.4	8.1	210	--	214
	11-14-89	1040	.1	--	7.2	7.9	210	212	--
	10-18-90	1050	.1	--	6.9	7.8	220	219	217
CW-9	12-06-88	1200	ND	44	7.2	8.2	303	--	308
	11-15-89	1180	.1	--	7.2	7.8	300	305	--
	10-18-90	1190	.1	--	6.8	7.7	380	382	296
	10-18-90	1190	.1	--	6.8	7.7	380	382	296
CDP-01	08-11-88	1090	.2	--	7.3	7.6	213	213	215
	12-07-88	1100	ND	53	7.6	7.9	230	230	222
	11-16-89	977	.5	--	7.4	8.3	210	205	--
	10-17-90	1250	.7	--	6.9	8.2	270	--	262
CDP-02	08-11-88	--	--	--	--	--	--	--	--
	11-16-89	1370	.5	--	7.4	7.9	210	215	--
CDP-03	12-08-88	1090	.2	--	7.7	7.9	230	229	222
	04-04-89	1060	.4	14	7.2	7.8	220	224	215
CDP-04	08-11-88	--	--	--	7.6	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	BICARBONATE WATER DIS IT FIELD mg/L as HCO3 (00453)	SOLIDS, RESIDUE AT 180 ° C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (tons per ac-ft) (70303)	NITROGEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITROGEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITROGEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOSPHORUS DIS- SOLVED (mg/L as P) (00666)	PHOSPHORUS TOTAL (mg/L as P) (00665)
CHAMBERS WELL CLUSTER—Continued										
CW-1	12-09-88	1210	1180	1070	1.60	1.60	<.100	--	.640	--
	11-16-89	1060	--	1010	1.37	--	<.100	--	--	--
	05-02-90	990	--	992	1.35	--	<.100	--	--	--
	05-02-90	--	--	976	1.33	--	.100	--	--	--
CW-2	12-09-88	--	646	630	.88	.030	.550	--	.010	--
	12-09-88	--	632	626	.86	.030	.570	--	.020	--
	11-16-89	--	--	--	--	--	--	--	--	--
	05-02-90	248	--	575	.78	--	.500	--	--	--
	05-02-90	--	--	--	--	--	--	--	--	--
CW-3	12-09-88	293	--	--	--	.060	.230	--	.020	--
	11-15-89	295	--	659	.90	--	<.100	--	--	--
	05-02-90	281	--	634	.86	--	.300	--	--	--
CW-4	12-07-88	--	629	633	.86	.690	.260	1.0	.010	.050
	11-15-89	283	--	627	.85	--	.650	--	--	--
	05-02-90	268	--	557	.76	--	<.100	--	--	--
CW-5	12-08-88	284	604	598	.82	.200	<.100	--	<.010	--
	11-15-89	284	--	--	--	--	<.100	--	--	--
	10-31-90	290	606	616	.82	--	.015	--	.012	--
CW-6	12-08-88	315	933	911	1.27	.020	.110	--	.010	--
	11-15-89	296	--	759	1.03	--	.190	--	--	--
	10-31-90	293	710	732	.97	--	.189	--	.014	--
CW-7	12-06-88	290	684	697	.93	--	--	<.20	--	.010
	11-14-89	279	--	654	.89	--	.170	--	--	--
	11-01-90	288	682	689	.93	--	.222	--	.018	--
CW-8	12-06-88	261	692	691	.94	.030	<.100	<.20	<.010	<.010
	11-14-89	259	--	676	.92	--	.800	--	--	--
	10-18-90	267	694	707	.94	--	.833	--	.012	--
CW-9	12-06-88	376	789	799	1.07	--	--	<.20	--	<.010
	11-15-89	372	--	766	1.04	--	<.100	--	--	--
	10-18-90	466	774	836	1.05	--	--	--	--	--
	10-18-90	466	768	842	1.04	--	.014	--	.011	--
CDP-01	08-11-88	260	717	727	.98	.480	<.100	.90	.040	.040
	12-07-88	279	736	746	1.00	.380	<.100	--	.030	--
	11-16-89	250	--	721	.98	--	--	--	--	--
	10-17-90	320	882	846	1.20	--	.397	--	.034	--
CDP-02	08-11-88	--	--	--	--	--	--	--	--	--
	11-16-89	262	--	875	1.19	--	.220	--	--	--
CDP-03	12-08-88	279	717	714	.98	<.010	<.100	--	.020	--
	04-04-89	273	691	699	.94	.010	<.100	.30	<.010	.010
CDP-04	08-11-88	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO ₄) (00660)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)
CHAMBERS WELL CLUSTER—Continued											
CW-1	12-09-88	.590	1.8	32	38	76	19	6.7	370	19	91
	11-16-89	--	--	29	--	70	18	5.9	380	20	92
	05-02-90	--	--	28	--	64	16	5.5	370	20	92
	05-02-90	--	--	27	--	65	16	5.8	380	21	92
CW-2	12-09-88	.10	.03	1.3	2.0	250	76	14	110	3	49
	12-09-88	.20	.06	1.1	2.0	250	76	14	110	3	49
	11-16-89	--	--	--	--	--	--	--	--	--	--
	05-02-90	--	--	1.8	--	260	82	13	110	3	48
	05-02-90	--	--	--	--	--	--	--	--	--	--
CW-3	12-09-88	.020	.06	1.9	2.9	--	--	--	--	--	--
	11-15-89	--	--	2.3	--	270	72	21	120	3	49
	05-02-90	--	--	2.2	--	280	77	21	130	3	50
CW-4	12-07-88	.060	.18	1.1	2.7	220	67	13	120	4	54
	11-15-89	--	--	1.6	--	230	71	13	120	3	53
	05-02-90	--	--	1.5	--	230	71	13	120	3	53
CW-5	12-08-88	.020	.06	1.1	2.2	210	63	13	120	4	55
	11-15-89	--	--	1.5	--	210	65	12	120	4	55
	10-31-90	--	--	4.7	--	210	64	12	120	4	55
CW-6	12-08-88	.020	.06	1.4	2.4	340	98	23	170	4	52
	11-15-89	--	--	1.6	--	280	82	19	140	4	52
	10-31-90	--	--	3.2	--	270	76	19	140	4	53
CW-7	12-06-88	--	--	1.3	1.9	190	56	12	150	5	63
	11-14-89	--	--	1.7	--	190	57	11	150	5	63
	11-01-90	--	--	8.0	--	200	61	12	150	5	61
CW-8	12-06-88	.020	.06	1.3	2.1	290	89	15	120	3	48
	11-14-89	--	--	2.6	--	280	87	14	120	3	48
	10-18-90	--	--	--	--	280	90	14	120	3	48
CW-9	12-06-88	--	--	1.3	2.3	320	93	22	150	4	50
	11-15-89	--	--	1.8	--	300	87	20	140	4	50
	10-18-90	--	--	--	--	300	88	20	150	4	52
	10-18-90	--	--	2.0	--	320	91	21	150	4	51
CDP-01	08-11-88	.030	.09	5.4	6.4	240	71	15	150	--	--
	12-07-88	.040	.12	2.1	5.8	240	71	16	150	4	57
	11-16-89	--	--	2.9	--	380	120	20	130	3	42
	10-17-90	--	--	--	--	330	97	20	140	3	48
CDP-02	08-11-88	--	--	--	--	--	--	--	--	--	--
	11-16-89	--	--	4.5	--	250	75	16	190	5	62
CDP-03	12-08-88	.020	.06	2.2	5.0	250	76	15	140	4	54
	04-04-89	<.010	--	2.9	3.4	260	78	15	130	4	52
CDP-04	08-11-88	--	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	POTASSIUM, DIS-SOLVED (mg/L as K) (00935)	CHLORIDE, DIS-SOLVED (mg/L as Cl) (00940)	BROMIDE, DIS-SOLVED (mg/L as Br) (71870)	FLUORIDE, DIS-SOLVED (mg/L as F) (00950)	SILICA, DIS-SOLVED (mg/L as SiO ₂) (00955)	SULFATE, DIS-SOLVED (mg/L as SO ₄) (00945)	ARSENIC, DIS-SOLVED (μg/L as As) (010050)	BARIUM, DIS-SOLVED (μg/L as Ba) (01005)	BERYLLIUM, DIS-SOLVED (μg/L as Be) (01010)	BORON, DIS-SOLVED (μg/L as B) (01020)
CHAMBERS WELL CLUSTER—Continued											
CW-1	12-09-88	2.8	32	.16	.60	15	25	5	800	--	920
	11-16-89	2.5	33	.20	.70	15	28	--	610	<.5	--
	05-02-90	3.0	38	.070	.60	15	55	--	660	<.5	--
	05-02-90	2.8	37	.090	.50	15	30	--	660	<.5	--
CW-2	12-09-88	2.2	40	.13	.60	12	240	<1	<100	--	170
	12-09-88	2.1	39	.14	.60	12	240	<1	<100	--	170
	11-16-89	--	--	--	--	--	--	--	--	--	--
	05-02-90	2.0	40	.15	.60	12	190	--	57	<.5	--
	05-02-90	--	--	--	--	--	--	--	--	--	--
CW-3	12-09-88	--	--	.32	--	--	--	1	<100	--	200
	11-15-89	1.4	44	.16	.70	13	240	--	42	<.5	--
	05-02-90	1.1	51	.19	.30	12	200	--	48	<.5	--
CW-4	12-07-88	3.6	40	.22	.50	15	230	<1	<100	--	190
	11-15-89	3.8	38	.15	.50	16	220	--	61	<.5	--
	05-02-90	3.4	40	.16	.20	15	160	--	65	<.5	--
CW-5	12-08-88	2.3	43	.17	.70	14	200	2	<100	--	180
	11-15-89	2.1	34	.18	.70	14	210	--	32	<.5	--
	10-31-90	2.2	39	.18	.50	14	220	1	34	<.5	200
CW-6	12-08-88	.90	75	.29	.70	16	370‡	1	<100	--	300
	11-15-89	.60	52	.17	.90	16	300‡	--	19	<.5	--
	10-31-90	.40	54	.22	.70	15	280‡	<1	22	<.5	290
CW-7	12-06-88	3.1	49	.16	.60	12	270‡	<1	59	--	170
	11-14-89	3.1	41	.13	.70	12	240‡	--	52	<.5	--
	11-01-90	2.9	46	.17	.40	12	260‡	<1	55	<.5	210
CW-8	12-06-88	2.5	50	.16	.60	13	270‡	<1	50	--	170
	11-14-89	2.2	46	.16	.60	13	260‡	--	49	<.5	--
	10-18-90	2.4	51	.17	.40	12	280‡	<1	53	<.5	170
CW-9	12-06-88	2.0	50	.22	.50	15	280‡	<1	43	--	200
	11-15-89	1.9	47	.18	.50	15	270‡	--	40	<.5	--
	10-18-90	1.9	51	.23	.30	14	280‡	<1	42	<.5	210
	10-18-90	1.9	52	.24	.20	15	280‡	<1	46	<.5	200
CDP-01	08-11-88	3.9	61	--	.60	12	280‡	3	120	--	190
	12-07-88	3.2	53	.15	.40	9.1	300‡	4	100	--	120
	11-16-89	3.7	54	--	1.1	5.5	260‡	--	42	<.5	--
	10-17-90	4.2	36	.070	.10	12	370‡	2	170	<.5	180
CDP-02	08-11-88	--	--	--	--	--	--	--	--	--	--
	11-16-89	3.6	76	--	.20	9.8	370‡	--	110	<.5	--
CDP-03	12-08-88	3.6	49	.14	.70	11	280‡	1	100	--	170
	04-04-89	3.3	46	--	.70	10	280‡	1	--	--	150
CDP-04	08-11-88	--	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (µg/L as Cr) (01032)	COBALT, DIS- SOLVED (µg/L as Co) (01035)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MERCURY DIS- SOLVED (µg/L as Hg) (71890)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo) (01060)
		CHAMBERS WELL CLUSTER—Continued									
CW-1	12-09-88	<1.0	--	<1	<1	1	660‡	<5	50‡	<.1	1
	11-16-89	<1.0	<5	--	<3	<10	480‡	<10i	45	--	<10
	05-02-90	<1.0	<5	--	<3	<10	950‡	<10i	50‡	--	20
	05-02-90	2.0	<5	--	<3	<10	1100‡	<10i	46	--	30
CW-2	12-09-88	<1.0	--	1	<1	<1	30	<5	190‡	<.1	6
	12-09-88	<1.0	--	1	1	<1	30	<5	190‡	<.1	6
	11-16-89	--	--	--	--	--	--	--	--	--	--
	05-02-90	<1.0	<5	--	<3	<10	19	<10i	220‡	--	10
	05-02-90	--	--	--	--	--	--	--	--	--	--
CW-3	12-09-88	<1.0	--	<1	<1	3	20	<5	30	<.1	6
	11-15-89	<1.0	<5	--	<3	<10	13	<10i	27	--	<10
	05-02-90	<1.0	<5	--	<3	<10	15	<10i	27	--	10
CW-4	12-07-88	<1.0	--	1	<1	<1	1200‡	<5	290‡	<.1	1
	11-15-89	<1.0	<5	--	<3	<10	990‡	<10i	310‡	--	<10
	05-02-90	2.0	<5	--	<3	<10	1200‡	<10i	300‡	--	10
CW-5	12-08-88	2.0	--	3	<1	2	290	<5	660‡	<.1	5
	11-15-89	<1.0	<5	--	<3	<10	150	<10i	510‡	--	10
	10-31-90	<1.0	<5	--	<3	<10	49	<10i	470‡	--	5
CW-6	12-08-88	1.0	--	1	<1	2	20	<5	<10	<.1	4
	11-15-89	<1.0	<5	--	<3	<10	6	<10i	<1	--	<10
	10-31-90	<1.0	<5	--	<3	<10	4	<10i	2	--	8
CW-7	12-06-88	2.0	--	1	<1	1	17	<5	510‡	<.1	7
	11-14-89	<1.0	<5	--	<3	<10	100	<10i	410‡	--	<10
	11-01-90	<1.0	<5	--	<3	<10	110	<10i	350‡	--	5
CW-8	12-06-88	2.0	--	1	1	1	9	<5	460‡	<.1	6
	11-14-89	<1.0	<5	--	<3	<10	6	<10i	470‡	--	<10
	10-18-90	<1.0	<5	--	<3	<10	20	<10i	450‡	--	6
CW-9	12-06-88	2.0	--	1	<1	1	7	<5	68‡	<.1	3
	11-15-89	<1.0	<5	--	<3	<10	14	<10i	70‡	--	<10
	10-18-90	<1.0	<5	--	<3	<10	7	<10i	72‡	--	4
	10-18-90	<1.0	<5	--	<3	<10	11	<10i	76‡	--	3
CDP-01	08-11-88	1.0	--	1	2	1	350‡	<5	3300‡	<.1	20
	12-07-88	1.0	--	<1	2	3	780‡	<5	3200‡	.6	11
	11-16-89	<1.0	<5	--	3	<10	76	<10i	2300‡	--	<10
	10-17-90	<1.0	<5	--	<3	<10	340‡	<10i	5000‡	--	19
CDP-02	08-11-88	--	--	--	--	--	--	--	--	--	--
	11-16-89	<1.0	<5	--	<3	<10	160	<10i	3200‡	--	10
CDP-03	12-08-88	<1.0	--	1	<1	2	10	<5	100‡	<.1	11
	04-04-89	<1.0	--	<1	4	<1	--	<5	--	<.1	--
CDP-04	08-11-88	--	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	NICKEL, DIS- SOLVED (μg/L as Ni) (01065)	SILVER, DIS- SOLVED (μg/L as Ag) (01075)	STRON- TIUM, DIS- SOLVED (μg/L as Sr) (01080)	VANA- DIUM, DIS- SOLVED (μg/L as V) (01085)	ZINC, DIS- SOLVED (μg/L as Zn) (01090)	ALUM- INUM, DIS- SOLVED (μg/L as Al) (01106)	LITHIUM DIS- SOLVED (μg/L as Li) (01130)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	S-34 / S-32 STABLE ISOTOPE RATIO PER MIL (82086)	H-2 / H-1 STABLE ISOTOPE RATIO PER MIL (82082)
		CHAMBERS WELL CLUSTER—Continued									
CW-1	12-09-88	2	--	520	13	<10	30	--	<1	--	-76.5
	11-16-89	<10	<1.0	480	<6	<3	--	110	--	--	--
	05-02-90	<10	<1.0	450	<6	E17	--	110	--	--	--
	05-02-90	10	2.0	460	<6	E11	--	110	--	--	--
CW-2	12-09-88	2	--	100	<1	<10	<10	--	<1	-4.10	-74.5
	12-09-88	1	--	970	<1	<10	<10	--	<1	-3.90	-74.0
	11-16-89	--	--	--	--	--	--	--	--	--	--
	05-02-90	10	<1.0	980	<6	6	--	36	--	--	--
	05-02-90	--	--	--	--	--	--	--	--	--	--
CW-3	12-09-88	2	--	1300	<1	<10	<10	--	<1	-2.70	-77.0
	11-15-89	<10	<1.0	1400	<6	5	--	42	--	--	--
	05-02-90	<10	2.0	1400	<6	<3	--	37	--	--	--
CW-4	12-07-88	<1	--	920	<1	<10	<10	--	<1	-2.60	--
	11-15-89	<10	<1.0	950	<6	<3	--	52	--	--	--
	05-02-90	20	2.0	930	<6	6	--	47	--	--	-70.0
CW-5	12-08-88	6	--	700	<1	10	<10	--	<1	-1.70	-71.5
	11-15-89	<10	<1.0	710	<6	<3	--	30	--	--	--
	10-31-90	<10	<1.0	700	<6	4	--	30	<3	--	--
CW-6	12-08-88	5	--	1700	7	<10	<10	--	1	-3.90	-70.0
	11-15-89	<10	<1.0	1400	8	4	--	48	--	--	--
	10-31-90	<10	<1.0	1400	7	5	--	47	<3	--	--
CW-7	12-06-88	<1	--	810	<1	6	<10	--	<1	-3.40	-72.5
	11-14-89	<10	<1.0	800	<6	<3	--	51	--	--	--
	11-01-90	<10	<1.0	840	<6	7	--	48	<1	--	--
CW-8	12-06-88	3	--	1100	<1	33	<10	--	<1	-4.10	-74.5
	11-14-89	<10	<1.0	1100	<6	<3	--	33	--	--	--
	10-18-90	<10	<1.0	1100	<6	63	--	33	<1	--	--
CW-9	12-06-88	2	--	1300	<1	5	<10	--	<1	-2.36	-73.5
	11-15-89	<10	<1.0	1200	<6	3	--	33	--	--	--
	10-18-90	<10	<1.0	1200	<6	<3	--	34	<1	--	--
	10-18-90	<10	2.0	1300	<6	3	--	35	<1	--	--
CDP-01	08-11-88	3	<1.0	1000	<1	19	<10	--	<1	--	-81.0
	12-07-88	3	--	1000	<1	20	<10	--	<1	-3.40	-71.0
	11-16-89	10	<1.0	1600	<6	210	--	15	--	--	-69.4
	10-17-90	<10	1.0	1300	<6	80	--	22	<1	--	--
CDP-02	08-11-88	--	--	--	--	--	--	--	--	--	-71.5
	11-16-89	<10	<1.0	1100	<6	9	--	21	--	-4.00	-67.0
CDP-03	12-08-88	3	--	1100	3	20	<10	--	<1	-4.00	-72.0
	04-04-89	1	--	1100	--	8	<10	--	<1	-3.40	-71.5
CDP-04	08-11-88	--	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	O-18 / O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (pCi/L) (07000)	GROSS ALPHA, DIS- SOLVED (μg/L as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS (μg/L as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL (μg/L as U-nat) (80040)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, TOTAL (pCi/L as Cs-137) (75989)	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS. (pCi/L as Sr-90/ Y-90) (75988)
CHAMBERS WELL CLUSTER—Continued											
CW-1	12-09-88	-10.00	<2.5	.5	--	6.4*	3.6	--	5.4*	2.5	--
	11-16-89	--	--	<.4	--	--	5.2	--	--	4.6	--
	05-02-90	--	--	1.2	.80	--	4.8	2.7	--	4.6	2.2
	05-02-90	--	--	1.2	--	--	4.8	--	--	4.6	--
CW-2	12-09-88	-10.20	77	11†	--	1.0*	5.3	--	.8*	3.7	--
	12-09-88	-10.15	78	9.4	--	<.4*	5.5	--	1.2*	3.8	--
	11-16-89	--	--	<.6	.60	--	5.2	1.9	--	4.6	1.7
	05-02-90	--	--	5.9	1.7	--	6.4	1.8	--	4.8	1.4
	05-02-90	--	--	16†	3.0	--	10	2.4	--	7.6	1.8
CW-3	12-09-88	-10.20	59	--	--	--	--	--	--	--	--
	11-15-89	--	--	6.7	1.4	--	7.3	1.4	--	6.7	1.3
	05-02-90	--	--	16†	--	--	10	--	--	7.6	--
CW-4	12-07-88	--	120	.7	--	<.4*	5.7	--	<.4*	3.9	--
	11-15-89	--	--	<.6	.60	--	4.7	1.1	--	4.1	1.0
	05-02-90	-9.60	--	1.4	.90	--	5.2	1.7	--	3.9	1.3
CW-5	12-08-88	-9.75	61	6.7	--	<.4*	4.9	--	.9*	3.4	--
	11-15-89	--	--	3.1	.90	--	5.4	1.2	--	4.7	1.1
	10-31-90	--	--	5.4	1.5	--	4.3	1.7	--	3.3	1.3
CW-6	12-08-88	-9.35	71	14†	--	<.4*	7.0	--	.8*	4.5	--
	11-15-89	--	--	4.9	1.1	--	7.0	1.4	--	6.3	1.3
	10-31-90	--	--	10	2.2	--	5.1	1.9	--	3.9	1.5
CW-7	12-06-88	-9.95	100	10	--	<.4*	5.8	--	.8*	4.0	--
	11-14-89	--	--	4.8	1.1	--	8.7	1.6	--	7.7	1.4
	11-01-90	--	--	8.3	1.9	--	7.1	2.2	--	5.4	1.7
CW-8	12-06-88	-10.20	94	12†	--	<.4*	6.3	--	.8*	4.4	--
	11-14-89	--	--	5.1	1.1	--	9.7	1.7	--	8.6	1.5
	10-18-90	--	--	8.9	1.9	--	7.0	2.2	--	5.3	1.7
CW-9	12-06-88	-9.95	98	17†	--	<.4*	9.5	--	1.2*	6.4	--
	11-15-89	--	--	5.6	1.1	--	9.8	1.7	--	9.0	1.5
	10-18-90	--	--	--	--	--	--	--	--	--	--
	10-18-90	--	--	14†	2.5	--	8.0	2.5	--	6.2	1.9
CDP-01	08-11-88	-10.10	40	20†	--	8.2*	12	--	4.7*	8.2	--
	12-07-88	-9.35	56	19†	--	<.4*	11	--	5.8*	7.8	--
	11-16-89	-9.15	96	8.2	1.4	--	12	2.0	--	11	1.8
	10-17-90	--	--	31†	4.3	--	24	4.6	--	18	3.5
CDP-02	08-11-88	-9.60	45	--	--	--	--	--	--	--	--
	11-16-89	-8.35	53	12†	1.7	--	12	2.1	--	11	1.8
CDP-03	12-08-88	-9.60	81	23†	--	<.4*	14	--	1.0*	9.5	--
	04-04-89	-9.50	71	21†	3.5	<.6*	9.7	2.1	2.6*	6.7	1.5
CDP-04	08-11-88	--	--	15†	--	7.1*	13	--	11*	8.6	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY (pCi/G as Sr-90/ Y-90) (76005)	Ra-226, DIS- SOLVED, PLAN- CHET COUNT (pCi/L) (09510)	Ra-226 2 SIGMA WATER, DISS, (pCi/L) (76001)	RADIUM -226, DIS- SOLVED, RADON METHOD (pCi/L) (09511)	RADIUM -228 DIS- SOLVED (pCi/L as Ra-228) (81366)	RADON -222 TOTAL (pCi/L) (82303)	Rn-222 2 SIGMA WATER, WHOLE, TOTAL, (pCi/L) (76002)	LEAD -210 DIS- SOLVED (pCi/L) (17503)
		CHAMBERS WELL CLUSTER—Continued								
CW-1	12-09-88	4.9*	--	--	--	.15	<1.0	<80	66	<1.5
	11-16-89	--	--	--	--	--	--	--	--	--
	05-02-90	--	--	--	--	--	--	<80	74	--
	05-02-90	--	--	--	--	--	--	140	47	--
CW-2	12-09-88	.8*	--	--	--	.08	<1.0	140	--	<1.5
	12-09-88	1.2*	--	--	--	.06	<1.0	137	44	<1.5
	11-16-89	--	--	--	--	--	--	--	--	--
	05-02-90	--	--	--	--	--	--	170	48	--
	05-02-90	--	--	--	--	--	--	300†	49	--
CW-3	12-09-88	--	--	--	--	.05	<1.0	340†	46	<1.5
	11-15-89	--	--	--	--	--	--	530†	88	--
	05-02-90	--	--	--	--	--	--	300†	--	--
CW-4	12-07-88	<.4*	--	--	--	.10	<1.0	<80	55	<1.5
	11-15-89	--	--	--	--	--	--	110	80	--
	05-02-90	--	--	--	--	--	--	140	49	--
CW-5	12-08-88	.8*	--	--	--	.07	<1.0	160	135	<1.5
	11-15-89	--	--	--	--	--	--	220	87	--
	10-31-90	--	--	<.1	ND	--	--	--	--	--
CW-6	12-08-88	.8*	--	--	--	.10	<1.0	520†	93	<1.5
	11-15-89	--	--	--	--	--	--	480†	95	--
	10-31-90	--	--	<.1	ND	--	--	--	--	--
CW-7	12-06-88	.8*	--	--	--	.10	<1.0	180	44	--
	11-14-89	--	--	--	--	--	--	260	120	--
	11-01-90	--	--	.1	.100	--	--	--	--	--
CW-8	12-06-88	.8*	--	--	--	.15	<1.0	91	41	--
	11-14-89	--	--	--	--	--	--	540†	120	--
	10-18-90	--	--	--	--	--	--	--	--	--
CW-9	12-06-88	1.2*	--	--	--	.05	<1.0	170	35	--
	11-15-89	--	--	--	--	--	--	--	--	--
	10-18-90	--	--	--	--	--	--	--	--	--
	10-18-90	--	--	--	--	--	--	--	--	--
CDP-01	08-11-88	4.5*	--	--	--	.15	<1.0	--	--	--
	12-07-88	6.0*	--	--	--	.17	<1.0	370†	59	<1.5
	11-16-89	--	--	--	--	--	--	--	--	--
	10-17-90	--	--	.2	.100	--	--	--	--	--
CDP-02	08-11-88	--	--	--	--	--	--	--	--	--
	11-16-89	--	--	--	--	--	--	--	--	--
CDP-03	12-08-88	1.0*	--	--	--	.07	<1.0	390†	91	<1.5
	04-04-89	2.6*	.80	--	--	--	--	420†	72	--
CDP-04	08-11-88	9.6*	--	--	--	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	POLO- NIUM 210 DIS- SOLVED (pCi/L) (19503)	URANIUM -234 WATER DISSOLV (pCi/L) (22610)	U-234 2 SIGMA WATER, DISS, (pCi/L) (75992)	URANIUM -235 WATER, DISS (pCi/L) (22620)	U-235 2 SIGMA WATER, DISS, (pCi/L) (75994)	URANIUM -238 WATER DISSOLV (pCi/L) (22603)	U-238 2 SIGMA WATER, DISS, (pCi/L) (75991)	URANIUM NATURAL DIS- SOLVED (μg/L as U) (22703)	THORIUM 230 DIS- SOLVED (pCi/L) (26503)
CHAMBERS WELL CLUSTER—Continued										
CW-1	12-09-88	<1.0	<.10	--	--	--	<.10	--	<.40	<1.0
	11-16-89	--	.90	--	<.1	--	.20	--	<1.0	--
	05-02-90	--	.10	.2	<.1	.10	<.10	.20	<1.0	--
	05-02-90	--	.12	--	ND	--	ND	--	.33	--
CW-2	12-09-88	<1.0	3.5	--	--	--	2.2	--	6.6	<1.0
	12-09-88	<1.0	4.0	--	--	--	2.4	--	6.7	<1.0
	11-16-89	--	.90	.3	<.1	.20	.20	.20	<1.0	--
	05-02-90	--	4.1	.7	<.1	ND	2.7	.50	7.6	--
	05-02-90	--	7.3	1.1	.3	.20	4.0	.70	15	--
CW-3	12-09-88	<1.0	5.8	--	--	--	4.3	--	13	<1.0
	11-15-89	--	5.6	.9	.3	.20	3.6	.60	4.5	--
	05-02-90	--	7.3	--	.3	--	4.0	--	15	--
CW-4	12-07-88	<1.0	.10	--	--	--	.10	--	<.40	--
	11-15-89	--	<.10	.1	<.1	ND	<.10	.10	<1.0	--
	05-02-90	--	<.10	.1	<.1	.10	.20	.20	<1.0	--
CW-5	12-08-88	<1.0	2.2	--	--	--	1.6	--	4.2	<1.0
	11-15-89	--	2.2	.4	.2	.10	1.5	.30	1.8	--
	10-31-90	--	2.3	.3	<.1	ND	1.6	.20	4.6	--
CW-6	12-08-88	<1.0	5.0	--	--	--	3.6	--	10	<1.0
	11-15-89	--	4.1	.7	.2	.20	2.9	.60	5.5	--
	10-31-90	--	4.8	.5	.1	ND	3.1	.40	8.8	--
CW-7	12-06-88	--	3.7	--	--	--	2.3	--	7.2	--
	11-14-89	--	3.7	.7	<.1	.10	2.1	.50	2.2	--
	11-01-90	--	3.6	.4	.1	ND	2.4	.30	6.6	--
CW-8	12-06-88	--	4.1	--	--	--	2.5	--	7.3	--
	11-14-89	--	3.7	.6	.3	.20	2.3	.50	3.3	--
	10-18-90	--	3.9	.4	<.1	ND	2.6	.30	6.7	--
CW-9	12-06-88	--	6.7	--	--	--	4.6	--	13	--
	11-15-89	--	6.2	.9	.2	.20	4.3	.70	7.3	--
	10-18-90	--	--	--	--	--	--	--	--	--
	10-18-90	--	6.0	.6	.1	ND	3.8	.40	12	--
CDP-01	08-11-88	--	6.8	--	--	--	6.3	--	19	--
	12-07-88	<1.0	7.1	--	--	--	7.3	--	19	<1.0
	11-16-89	--	6.8	1.1	.2	.20	5.2	.90	7.2	--
	10-17-90	--	12	1.2	.4	ND	11	1.1	20†	--
CDP-02	08-11-88	--	--	--	--	--	--	--	--	--
	11-16-89	--	6.7	1.1	.4	.20	6.6	1.1	11	--
CDP-03	12-08-88	<1.0	9.9	--	--	--	7.2	--	19	<1.0
	04-04-89	--	--	--	--	--	--	--	--	--
CDP-04	08-11-88	--	--	--	--	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	STATION NUMBER	DATE	TIME	LATITUDE	LONGITUDE
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER					
AD-1	351140109220901	11-14-89 05-01-90 10-13-90	1215 1730 1101	35°11'40"W	109°22'09"W
AD-3	351140109220403	07-13-89 07-13-89 09-22-89 05-01-90 10-19-90	1130 1131 1020 1605 0930	35°11'40"W	109°22'04"W
AD-4	351144109220701	09-22-89 10-13-90 05-01-90	1145 0845 1400	35°11'44"W	109°22'07"W
AD-5	351139109221301	07-13-89 11-13-89 11-14-89 05-04-90 10-19-90	1600 1800 0900 0845 0800	35°11'39"W	109°22'13"W
ADDP-1	351135109225001	05-15-90 06-13-91	1600 1230	35°11'35"W	109°22'50"W
CEDAR POINT WELL CLUSTER					
CP-1	351411109170701	09-21-89 05-03-90 05-03-90 10-12-90	1230 1030 0955 1245	35°14'11"W	109°17'07"W
CP-2	351411109170702	09-21-89 05-03-90 10-12-90	1425 1250 1100	35°14'11"W	109°17'07"W
CP-3	351411109170703	09-21-89 05-03-90 10-17-90	1615 1400 1005	35°14'11"W	109°17'07"W
CP-4	351415109170201	09-21-89 10-17-90 05-03-90	1020 0830 1600	35°14'15"W	109°17'02"W
CP-5	351410109170201	09-20-89 05-07-90 10-17-90	1630 1610 1143	35°14'10"W	109°17'02"W
CP-6	351407109165801	09-20-89 06-16-90 10-12-90	1440 1200 1445	35°14'07"W	109°16'58"W
CP-8	351407109165602	06-07-90 10-17-90	1620 1400	35°14'07"W	109°16'56"W
CPDP-1	351419109165901	11-17-89 10-16-90	1300 1530	35°14'19"W	109°16'59"W
CPDP-2	351419109165902	05-16-90	0830	35°14'19"W	109°16'59"W

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALTITUDE OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (METERS) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS) (72019)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	FLOW RATE, INSTANTANEOUS (m ³ /s) (00059)	TEMPERATURE WATER (°C) (00010)	OXIDATION REDUCTION POTENTIAL (mV) (00090)	SPECIFIC CONDUCTANCE (μS/cm) (00095)	SPECIFIC CONDUCTANCE LAB (μS/cm) (90095)
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued										
AD-1	11-14-89	1766.01	57.9	5.0	60	.0019	12.0	85	1080	1090
	05-01-90			5.2	40	.0027	12.0	57	1090	1100
	10-13-90			5.2	--	--	12.0	103	1110	1110
AD-3	07-13-89	1765.97	10.1	4.9	--	.0015	16.0	--	860	848
	07-13-89			4.9	--	--	--	--	--	--
	09-22-89			4.6	50	.0011	13.0	304	909	916
	05-01-90			5.1	25	.0027	12.5	213	921	949
	10-19-90			5.0	15	.0023	13.0	230	954	963
AD-4	09-22-89	1765.23	11.6	4.0	40	.0011	14.5	286	1270	1300
	05-01-90			4.5	20	.0027	13.5	220	1310	1300
	10-13-90			4.4	--	--	12.5	319	1420	1450
AD-5	07-13-89	1765.44	9.9	4.4	--	.0038	17.0	--	1140	1080
	11-13-89			4.6	60	.0019	12.5	270	1180	1240
	11-14-89			4.6	35	.0019	12.5	304	1200	--
	05-04-90			4.9	65	.0027	13.0	215	1200	1160
	10-19-90			4.7	55	.0023	13.0	288	1350	1370
ADDP-1	05-15-90	1762	1.07	.7	--	--	20.5	278	1510	--
	06-13-91		1.46	--	35	.0004	13.5	263	893	876

CEDAR POINT WELL CLUSTER—Continued

CP-1	09-21-89	1792.23	33.2	5.6	65	.0011	13.0	58	808	800
	05-03-90			5.5	65	.0027	12.5	27	775	778
	05-03-90			5.5	65	.0027	12.5	27	775	779
	10-12-90			5.5	--	--	12.5	62	728	811
CP-2	09-21-89	1792.30	18.1	5.5	85	.0011	18.0	242	1200	1200
	05-03-90			5.4	45	.0027	13.0	166	1100	1150
	10-12-90			5.5	--	--	12.5	210	1160	1070
CP-3	09-21-89	1792.17	8.1	5.4	65	.0004	19.0	175	1200	1200
	05-03-90			5.3	55	.0011	11.5	101	1100	1110
	10-17-90			5.4	30	.0008	16.0	226	1200	1210
CP-4	09-21-89	1792.11	8.1	5.7	--	.0004	17.5	261	1080	--
	05-03-90			5.1	50	.0015	11.0	89	1170	1180
	10-17-90			5.2	50	.0008	14.0	138	1180	1180
CP-5	09-20-89	1791.71	8.1	5.0	45	.0011	15.0	215	1250	1200
	05-07-90			5.0	50	.0027	14.5	170	1230	1170
	10-17-90			5.2	18	.0011	15.0	177	1190	1200
CP-6	09-20-89	1791.48	7.7	5.0	60	.0011	17.0	201	1320	1270
	06-16-90			--	--	--	--	--	--	--
	10-12-90			5.1	--	--	16.0	222	1230	1240
CP-8	06-07-90	1800	39.6	5.9	70	.0008	16.0	128	657	644
	10-17-90			5.8	30	.0011	16.0	13	649	647
CPDP-1	11-17-89	1790	--	--	45	.0008	11.0	175	1470	1390
	10-16-90		--	1.0	25	.0011	19.0	167	2090	1990
CPDP-2	05-16-90	1790	1.28	.5	--	--	14.5	82	1430	1280

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	OXYGEN, DIS- SOLVED (mg/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LINITY WAT DIS FIX END FIELD (mg/L as CaCO ₃) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD (mg/L as CaCO ₃) (39086)	ALKA- LINITY LAB (mg/L as CaCO ₃) (90410)	BICAR- BONATE WATER DIS IT FIELD (mg/L as HCO ₃) (00453)	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued										
AD-1	11-14-89	ND	7.1	7.7	330	333	--	406	--	698
	05-01-90	.1	7.1	7.6	400	--	--	482	--	679
	10-13-90	.3	7.2	7.5	380	372	375	454	696	710
AD-3	07-13-89	.5	7.6	8.0	210	216	--	264	--	--
	07-13-89	--	--	--	--	--	--	--	--	--
	09-22-89	.1	7.8	7.9	200	206	--	251	--	553
	05-01-90	.1	7.2	7.8	230	234	--	286	--	572
	10-19-90	.2	7.1	7.8	230	230	222	281	620	635
AD-4	09-22-89	.8	7.7	7.9	230	--	--	288	--	822
	05-01-90	ND	7.4	7.8	220	223	--	272	--	815
	10-13-90	.7	7.5	7.6	240	238	225	290	974	926
AD-5	07-13-89	3.3	7.6	7.9	240	240	--	293	--	--
	11-13-89	2.8	7.4	8.4	240	239	--	292	--	--
	11-14-89	2.8	7.3	--	--	--	--	--	--	--
	05-04-90	1.5	7.5	7.9	230	234	--	286	--	703
	10-19-90	.9	7.1	7.8	290	296	249	361	904	907
ADDP-1	05-15-90	3.4	7.3	7.6	634	--	222	--	--	1100
	06-13-91	2.0	7.4	7.8	200	200	--	244	545	532
CEDAR POINT WELL CLUSTER—Continued										
CP-1	09-21-89	.1	7.5	7.9	340	420	--	--	--	466
	05-03-90	ND	7.2	7.4	340	342	--	417	--	468
	05-03-90	ND	7.2	7.7	340	342	--	--	--	472
	10-12-90	.2	7.2	7.5	330	336	317	410	488	504
CP-2	09-21-89	.6	7.7	7.9	210	--	--	264	--	755
	05-03-90	.1	7.4	7.7	220	220	--	270	--	690
	10-12-90	.3	7.3	7.6	230	228	147	278	770	781
CP-3	09-21-89	.1	7.5	8.1	250	--	--	308	--	757
	05-03-90	.1	7.4	7.8	240	240	--	293	--	679
	10-17-90	--	7.4	7.8	220	--	222	270	778	807
CP-4	09-21-89	1.1	7.9	--	--	--	--	--	--	--
	05-03-90	.1	7.6	7.9	230	240	--	293	--	717
	10-17-90	.4	7.3	7.8	240	--	233	290	770	784
CP-5	09-20-89	.3	7.5	8.0	240	--	--	286	--	799
	05-07-90	.5	7.4	7.8	240	243	--	297	--	767
	10-17-90	.4	7.0	7.8	240	--	245	300	808	806
CP-6	09-20-89	.1	7.5	8.0	250	251	--	306	--	856
	06-16-90	--	--	--	--	--	--	--	--	--
	10-12-90	.4	7.1	7.5	250	264	249	322	856	842
CP-8	06-07-90	.2	7.2	7.5	--	287	273	--	--	371
	10-17-90	.2	7.0	7.8	270	--	274	330	361	381
CPDP-1	11-17-89	--	7.0	7.9	320	322	--	392	--	--
	10-16-90	.9	6.9	8.1	410	--	399	500	1390	1430
CPDP-2	05-16-90	1.1	7.2	8.0	280	285	199	348	--	852

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SOLIDS, DIS- SOLVED (tons per ac-ft) (70303)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as NO2) (71856)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO4) (00660)
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued											
AD-1	11-14-89	.95	--	--	--	--	--	--	--	--	--
	05-01-90	.92	--	--	--	.400	--	--	--	--	--
	10-13-90	.95	--	--	--	.415	--	--	.075	--	--
AD-3	07-13-89	--	--	--	--	1.90	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--	--
	09-22-89	.75	--	--	--	2.50	--	--	--	--	--
	05-01-90	.78	--	--	--	2.50	--	--	--	--	--
	10-19-90	.84	--	--	--	2.10	--	--	.022	--	--
AD-4	09-22-89	1.12	--	--	--	6.10	--	--	--	--	--
	05-01-90	1.11	--	--	--	7.20	--	--	--	--	--
	10-13-90	1.32	--	--	--	.018	--	--	.014	--	--
AD-5	07-13-89	--	--	--	--	3.00	--	--	--	--	--
	11-13-89	--	--	--	--	3.20	--	--	--	--	--
	11-14-89	--	--	--	--	--	--	--	--	--	--
	05-04-90	.96	--	--	--	3.00	--	--	--	--	--
	10-19-90	1.23	--	--	--	3.80	--	--	.033	--	--
ADDP-1	05-15-90	1.50	.018	.003	2.30	2.30	10	.01	--	.016	.05
	06-13-91	.74	--	--	--	.659	--	--	.109	--	--
CEDAR POINT WELL CLUSTER—Continued											
CP-1	09-21-89	.63	--	--	--	<.100	--	--	--	--	--
	05-03-90	.64	--	--	--	<.100	--	--	--	--	--
	05-03-90	.64	--	--	--	<.100	--	--	--	--	--
	10-12-90	.66	--	--	--	<.010	--	--	.021	--	--
CP-2	09-21-89	1.03	--	--	--	<.100	--	--	--	--	--
	05-03-90	.94	--	--	--	<.100	--	--	--	--	--
	10-12-90	1.05	--	--	--	<.010	--	--	.009	--	--
CP-3	09-21-89	1.03	--	--	--	<.100	--	--	--	--	--
	05-03-90	.92	--	--	--	<.100	--	--	--	--	--
	10-17-90	1.06	--	--	--	.047	--	--	.037	--	--
CP-4	09-21-89	--	--	--	--	--	--	--	--	--	--
	05-03-90	.98	--	--	--	<.100	--	--	--	--	--
	10-17-90	1.05	--	--	--	.075	--	--	.024	--	--
CP-5	09-20-89	1.09	--	--	--	<.100	--	--	--	--	--
	05-07-90	1.04	--	--	--	<.100	--	--	--	--	--
	10-17-90	1.10	--	--	--	.036	--	--	.013	--	--
CP-6	09-20-89	1.16	--	--	--	<.100	--	--	--	--	--
	06-16-90	--	--	--	--	--	--	--	--	--	--
	10-12-90	1.16	--	--	--	.011	--	--	.016	--	--
CP-8	06-07-90	.50	.053	.003	--	<.010	--	.01	--	.001	ND
	10-17-90	.49	--	--	--	.016	--	--	.002	--	--
CPDP-1	11-17-89	--	--	--	--	--	--	--	--	--	--
	10-16-90	1.89	--	--	--	.055	--	--	.045	--	--
CPDP-2	05-16-90	1.16	.735	.001	--	<.010	--	ND	--	.008	.02

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued											
AD-1	11-14-89	2.5	--	270	83	14	130	3	51	4.2	37
	05-01-90	3.4	--	260	83	13	150	4	55	3.6	37
	10-13-90	3.2	--	270	84	14	150	4	55	3.6	41
AD-3	07-13-89	--	2.5	210	66	10	100	3	--	--	39
	07-13-89	--	--	--	--	--	--	--	--	--	--
	09-22-89	2.9	--	230	74	11	100	3	48	2.5	39
	05-01-90	2.4	--	250	80	13	110	3	48	2.5	40
	10-19-90	2.6	--	260	84	13	110	3	47	2.5	45
AD-4	09-22-89	2.2	--	290	91	15	150	4	53	2.5	52
	05-01-90	2.0	--	320	98	17	170	4	54	2.5	59
	10-13-90	2.2	--	360	110	20	180	4	52	2.7	67
AD-5	07-13-89	--	2.0	270	79	17	140	4	--	--	45
	11-13-89	2.7	--	--	60	12	100	--	--	3.2	47
	11-14-89	--	--	--	--	--	--	--	--	--	--
	05-04-90	2.6	--	280	82	17	150	4	54	2.7	60
	10-19-90	2.7	--	320	95	20	170	4	53	3.3	66
ADDP-1	05-15-90	3.5	--	380	120	20	180	4	51	1.0	160
	06-13-91	7.0	--	150	47	8.6	130	5	64	3.6	59

CEDAR POINT WELL CLUSTER—Continued

CP-1	09-21-89	2.6	--	290	79	21	55	1	29	2.9	24
	05-03-90	2.5	--	290	80	21	56	1	30	3.1	27
	05-03-90	2.7	--	290	80	22	58	1	30	2.8	27
	10-12-90	2.7	--	290	81	22	57	1	29	2.9	35
CP-2	09-21-89	3.3	--	320	99	17	130	3	47	3.6	63
	05-03-90	2.6	--	310	96	16	140	3	50	3.1	61
	10-12-90	3.3	--	310	96	16	140	3	50	3.2	67
CP-3	09-21-89	3.8	--	300	96	15	140	4	50	2.8	49
	05-03-90	3.0	--	280	88	14	140	4	52	2.4	59
	10-17-90	3.7	--	290	90	15	150	4	53	2.6	74
CP-4	09-21-89	--	--	--	--	--	--	--	--	--	--
	05-03-90	3.5	--	250	77	14	160	4	58	2.3	67
	10-17-90	3.7	--	250	77	14	160	4	58	2.4	65
CP-5	09-20-89	2.6	--	380	120	20	120	3	40	1.8	52
	05-07-90	2.3	--	360	110	20	130	3	44	1.7	46
	10-17-90	2.3	--	350	110	19	130	3	44	1.7	53
CP-6	09-20-89	2.6	--	420	130	22	120	3	39	1.4	56
	06-16-90	--	--	--	--	--	--	--	--	--	--
	10-12-90	1.8	--	390	120	21	120	3	40	1.3	56
CP-8	06-07-90	1.1	--	260	71	20	37	1	23	5.6	22
	10-17-90	.6	--	270	74	21	37	1	22	5.4	23
CPDP-1	11-17-89	6.4	--	470	140	29	150	3	41	4.9	--
	10-16-90	8.9	--	430	130	25	330	7	62	6.0	80
CPDP-2	05-16-90	4.1	--	350	100	23	150	4	48	3.5	63

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)	BORON, DIS- SOLVED (μg/L as B) (01020)	CADMIUM DIS- SOLVED (μg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (μg/L as Cr) (01030)
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ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued

AD-1	11-14-89	.18	.50	17	210	--	330	<.5	--	<1.0	<5
	05-01-90	.13	.20	20	130	--	280	<.5	--	3.0	<5
	10-13-90	.16	.40	19	170	<1	250	<.5	180	<1.0	<5
AD-3	07-13-89	.17	.40	12	170	--	36	<.5	--	<1.0	<5
	07-13-89	--	--	--	--	--	--	--	--	--	--
	09-22-89	.15	.40	11	180	--	37	<.5	--	<1.0	<5
	05-01-90	.15	1.1	13	160	--	<100	<10	--	<1.0	<1
	10-19-90	.15	.20	12	220	1	45	<.5	160	2.0	<5
AD-4	09-22-89	.29	.70	11	330‡	--	26	<.5	--	<1.0	<5
	05-01-90	.35	.30	11	290‡	--	31	<.5	--	<1.0	<5
	10-13-90	.38	.50	11	390‡	<1	33	<.5	300	<1.0	<5
AD-5	07-13-89	.050	.70	16	270‡	--	28	<.5	--	<1.0	<5
	11-13-89	.29	.80	12	320‡	--	24	<.5	--	3.0	20
	11-14-89	--	--	--	--	--	--	--	--	--	--
	05-04-90	.28	.60	16	220	--	32	<.5	--	2.0	<5
	10-19-90	.35	.80	16	340‡	1	29	<.5	280	<1.0	<5
ADDP-1	05-15-90	.20	<.10	11	220	--	61	<2	--	<3.0	<20
	06-13-91	.55	.70	8.9	150	2	57	<.5	--	<1.0	<5

CEDAR POINT WELL CLUSTER—Continued

CP-1	09-21-89	.16	.70	17	57	--	500	<.5	--	<1.0	<5
	05-03-90	.12	.20	17	53	--	580	<.5	--	<1.0	<5
	05-03-90	.13	.60	17	54	--	570	<.5	--	<1.0	<5
	10-12-90	.16	.80	17	81	<1	550	<.5	250	<1.0	<5
CP-2	09-21-89	.19	.50	11	300‡	--	40	<.5	--	<1.0	<5
	05-03-90	.19	.20	10	230	--	47	<.5	--	<1.0	<5
	10-12-90	.20	.30	10	310‡	<1	38	<.5	140	<1.0	<5
CP-3	09-21-89	.15	.60	9.4	290‡	--	47	<.5	--	<1.0	<5
	05-03-90	.17	.30	8.8	220	--	53	<.5	--	1.0	<5
	10-17-90	.36	.40	9.0	330‡	<1	51	<.5	180	<1.0	<5
CP-4	09-21-89	--	--	--	--	--	--	--	--	--	--
	05-03-90	.15	.30	9.6	240	--	58	<.5	--	1.0	<5
	10-17-90	.17	.40	9.6	310‡	<1	53	<.5	180	<1.0	<5
CP-5	09-20-89	.19	.60	12	330‡	--	38	<.5	--	<1.0	<5
	05-07-90	.19	.30	11	300‡	--	38	<.5	--	<1.0	<5
	10-17-90	.21	.40	12	330‡	<1	47	<.5	170	<1.0	<5
CP-6	09-20-89	.22	.50	14	360‡	--	31	<.5	--	<1.0	<5
	06-16-90	--	--	--	--	--	--	--	--	--	--
	10-12-90	.25	.60	13	350‡	<1	29	<.5	170	<1.0	<5
CP-8	06-07-90	.26	1.7	8.0	39	8	56	<.5	830	<1.0	<5
	10-17-90	.27	1.5	8.0	46	7	60	<.5	790	<1.0	<5
CPDP-1	11-17-89	--	<.10	13	390‡	--	140	<.5	--	<1.0	<5
	10-16-90	.17	.40	11	600‡	<1	190	<.5	300	<1.0	<5
CPDP-2	05-16-90	.23	.30	13	320‡	--	120	<.5	--	<1.0	<5

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	COBALT, DIS-SOLVED (µg/L as Co) (01035)	COPPER, DIS-SOLVED (µg/L as Cu) (01040)	IRON, DIS-SOLVED (µg/L as Fe) (01046)	LEAD, DIS-SOLVED (µg/L as Pb) (01049)	MANGANESE, DIS-SOLVED (µg/L as Mn) (01056)	MOLYBDENUM, DIS-SOLVED (µg/L as Mo) (01060)	NICKEL, DIS-SOLVED (µg/L as Ni) (01065)	SILVER, DIS-SOLVED (µg/L as Ag) (01075)	STRONTIUM, DIS-SOLVED (µg/L as Sr) (01080)
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued										
AD-1	11-14-89	<3	<10	910†	<10†	330†	<10	<10	<1.0	820
	05-01-90	<3	<10	1500†	<10†	370†	<10	<10	2.0	700
	10-13-90	<3	<10	1500†	<10†	390†	<2	<10	<1.0	710
AD-3	07-13-89	<3	<10	9	<10†	5	<10	<10	<1.0	690
	07-13-89	--	--	--	--	--	--	--	--	--
	09-22-89	<3	<10	11	<10†	8	<10	<10	<1.0	730
	05-01-90	<1	1	30	<1	20	--	1	<1.0	870
	10-19-90	<3	<10	4	<10†	19	3	<10	1.0	880
AD-4	09-22-89	<3	<10	3	<10†	<1	<10	<10	<1.0	1000
	05-01-90	<3	<10	28	<10†	2	10	<10	2.0	1200
	10-13-90	<3	<10	12	<10†	2	1	<10	1.0	1300
AD-5	07-13-89	<3	<10	5	<10†	<1	<10	<10	<1.0	870
	11-13-89	10	10	35	70†	17	10	10	19	670
	11-14-89	--	--	--	--	--	--	--	--	--
	05-04-90	<3	<10	12	<10†	4	<10	<10	2.0	890
	10-19-90	<3	<10	3	<10†	<1	4	<10	<1.0	1000
ADDP-1	05-15-90	<9	<30	25	<30†	9	<30	<30	<3.0	1500
	06-13-91	<3	<10	5	10†	4	10	<10	<1.0	600

CEDAR POINT WELL CLUSTER—Continued

CP-1	09-21-89	<3	<10	2400†	<10†	570†	<10	<10	<1.0	900
	05-03-90	<3	<10	2900†	<10†	650†	<10	<10	<1.0	910
	05-03-90	<3	<10	2800†	<10†	650†	10	10	1.0	960
	10-12-90	<3	<10	2800†	<10†	700†	<1	<10	1.0	930
CP-2	09-21-89	<3	<10	13	<10†	270†	<10	<10	<1.0	900
	05-03-90	<3	<10	16	<10†	260†	20	<10	2.0	860
	10-12-90	<3	<10	12	<10†	240†	3	<10	1.0	850
CP-3	09-21-89	<3	<10	38	<10†	1300†	20	<10	<1.0	1000
	05-03-90	<3	<10	67	<10†	1000†	20	10	<1.0	920
	10-17-90	<3	<10	28	<10†	1000†	10	<10	<1.0	960
CP-4	09-21-89	--	--	--	--	--	--	--	--	--
	05-03-90	<3	<10	120	<10†	1600†	40	10	1.0	750
	10-17-90	<3	<10	110	<10†	1400†	24	<10	<1.0	740
CP-5	09-20-89	<3	<10	12	<10†	600†	10	<10	<1.0	1100
	05-07-90	<3	<10	30	<10†	310†	10	<10	<1.0	1100
	10-17-90	<3	<10	42	<10†	420†	7	<10	1.0	1100
CP-6	09-20-89	<3	<10	7	<10†	310†	<10	<10	<1.0	1300
	06-16-90	--	--	--	--	--	--	--	--	--
	10-12-90	<3	<10	15	<10†	88†	2	<10	<1.0	1300
CP-8	06-07-90	<3	<10	80	<10†	91†	<10	<10	<1.0	1400
	10-17-90	<3	<10	190	<10†	130†	2	<10	<1.0	1500
CPDP-1	11-17-89	5	<10	850†	<10†	4600†	<10	10	<1.0	1900
	10-16-90	<3	<10	50	<10†	890†	11	<10	1.0	1800
CPDP-2	05-16-90	4	<10	1800†	<10†	3800†	10	<10	2.0	1400

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	VANA- DIUM, DIS- SOLVED (μg/L as V) (01085)	ZINC, DIS- SOLVED (μg/L as Zn) (01090)	LITHIUM DIS- SOLVED (μg/L as Li) (01130)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (pCi/L) (07000)	GROSS ALPHA, DIS- SOLVED (μg/L as U-nat) (80030)
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued										
AD-1	11-14-89	<6	<3	44	--	1.20	-77.0	-10.30	38	11†
	05-01-90	<6	<3	43	--	--	--	--	--	12†
	10-13-90	<6	4	44	<1	--	--	--	--	12†
AD-3	07-13-89	<6	6	20	--	-3.40	-83.5	-10.45	32	30†
	07-13-89	--	--	--	--	--	--	--	--	25†
	09-22-89	<6	7	19	--	--	--	--	--	29†
	05-01-90	2	<10	20	--	--	--	--	--	66†
	10-19-90	<6	5	24	<1	--	--	--	--	41†
AD-4	09-22-89	<6	9	25	--	--	--	--	--	4.8
	05-01-90	<6	<3	29	--	--	--	--	--	12†
	10-13-90	<6	<3	34	6	--	--	--	--	8.1
AD-5	07-13-89	<6	<3	35	--	-2.80	-80.0	-10.25	--	6.4
	11-13-89	16	<3	30	--	--	-79.0	-10.20	30	--
	11-14-89	--	--	--	--	-2.70	--	--	--	4.0
	05-04-90	<6	5	35	--	--	--	--	--	10
	10-19-90	<6	4	41	<10	--	--	--	--	11†
ADDP-1	05-15-90	<18	11	28	--	-4.40	-78.5	-9.95	17	98†
	06-13-91	<6	10	13	<1	1.60	--	--	--	10
CEDAR POINT WELL CLUSTER—Continued										
CP-1	09-21-89	<6	3	43	--	--	-81.0	-10.55	2.9	2.0
	05-03-90	<6	4	43	--	--	--	--	--	3.8
	05-03-90	<6	5	43	--	--	--	--	--	--
	10-12-90	<6	<3	46	<1	--	--	--	--	1.5
CP-2	09-21-89	<6	4	24	--	-4.30	-69.0	-8.30	33	11†
	05-03-90	<6	7	22	--	--	--	--	--	8.1
	10-12-90	<6	4	24	<1	--	--	--	--	5.3
CP-3	09-21-89	<6	5	20	--	-4.20	-65.0	-9.35	--	11†
	05-03-90	<6	10	17	--	--	--	--	--	7.2
	10-17-90	<6	4	19	<1	--	--	--	--	5.4
CP-4	09-21-89	--	--	--	--	--	--	--	--	13†
	05-03-90	<6	5	18	--	--	--	--	--	30†
	10-17-90	<6	<3	20	<1	--	--	--	--	21†
CP-5	09-20-89	<6	4	47	--	-4.40	-74.5	-9.40	44	4.1
	05-07-90	<6	4	48	--	--	--	--	--	9.2
	10-17-90	<6	11	48	<1	--	--	--	--	8.6
CP-6	09-20-89	<6	19	52	--	-4.30	-72.5	-9.20	53	4.5
	06-16-90	--	--	--	--	--	--	--	--	--
	10-12-90	<6	<3	56	<1	--	--	--	--	7.6
CP-8	06-07-90	<6	12	140	<1	-3.70	-78.0	-10.20	<2.5	8.6
	10-17-90	<6	6	140	<1	--	--	--	--	5.4
CPDP-1	11-17-89	<6	270	22	--	-3.20	-68.0	-9.00	38	11†
	10-16-90	<6	11	37	<1	--	--	--	--	46†
CPDP-2	05-16-90	<6	4	17	--	-4.40	-71.9	-9.60	30	21†

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALPHA, COUNT, 2 SIGMA WAT DIS ($\mu\text{g/L}$ as U-nat) (75986)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	Ra-226, DIS- SOLVED, PLAN- CHET COUNT (pCi/L) (09510)	Ra-226 2 SIGMA WATER, DISS, (pCi/L) (76001)	RADIUM -226, DIS- SOLVED, RADON METHOD (pCi/L) (09511)	RADIUM -228 DIS- SOLVED (pCi/L as Ra-228) (81366)

ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued

AD-1	11-14-89	1.8	12	1.9	11	1.7	--	--	--	<1.0
	05-01-90	4.4	9.1	2.4	6.9	1.8	--	--	--	--
	10-13-90	2.4	7.3	2.4	5.6	1.8	--	--	--	--
AD-3	07-13-89	3.9	23	4.1	18	3.3	--	.030	.12	<1.0
	07-13-89	3.4	22	3.9	17	3.1	--	.030	.13	<1.0
	09-22-89	3.3	23	3.0	21	2.7	--	--	--	<1.0
	05-01-90	16	39	5.5	29	5.5	--	--	--	--
	10-19-90	5.5	32	5.0	24	3.7	<.1	ND	--	--
AD-4	09-22-89	.90	6.7	2.3	5.2	2.1	--	--	--	<1.0
	05-01-90	3.1	8.5	2.4	6.4	1.8	--	--	--	--
	10-13-90	1.8	7.6	2.7	5.7	2.0	--	--	--	--
AD-5	07-13-89	1.3	5.0	2.7	4.0	2.2	--	.020	.10	<1.0
	11-13-89	--	--	--	--	--	--	--	--	--
	11-14-89	1.2	9.0	1.7	8.3	1.6	--	--	--	<1.0
	05-04-90	2.4	8.1	2.3	6.0	1.7	--	--	--	--
	10-19-90	2.2	9.6	2.9	7.2	2.2	<.1	ND	--	--
ADDP-1	05-15-90	17	58	8.2	44	6.2	--	--	--	<1.0
	06-13-91	2.1	11	2.2	7.9	1.7	--	--	--	--

CEDAR POINT WELL CLUSTER—Continued

CP-1	09-21-89	.50	3.4	1.5	3.0	1.3	--	--	--	<1.0
	05-03-90	1.4	5.2	1.8	4.0	1.4	--	--	--	--
	05-03-90	--	--	--	--	--	--	--	--	--
	10-12-90	.80	5.7	2.0	4.3	1.5	--	--	--	--
CP-2	09-21-89	2.1	6.7	2.1	6.0	1.8	--	--	--	<1.0
	05-03-90	2.0	7.4	2.1	5.6	1.6	--	--	--	--
	10-12-90	1.3	8.3	2.6	6.3	2.0	--	--	--	--
CP-3	09-21-89	2.0	3.9	1.8	3.6	1.6	--	--	--	<1.0
	05-03-90	2.2	6.8	2.1	5.1	1.5	--	--	--	--
	10-17-90	1.5	7.0	2.4	5.3	1.8	<.1	ND	--	--
CP-4	09-21-89	1.7	22	3.1	21	2.9	--	--	--	<1.0
	05-03-90	6.0	16	3.2	12	2.4	--	--	--	--
	10-17-90	3.2	13†	3.0	9.7	2.3	.1	.100	--	--
CP-5	09-20-89	.80	5.0	1.8	4.4	1.6	--	--	--	<1.0
	05-07-90	1.9	20	3.9	15	3.0	--	--	--	--
	10-17-90	1.9	5.3	2.3	4.0	1.7	<.1	.100	--	--
CP-6	09-20-89	.80	6.5	2.0	5.9	1.8	--	--	--	1.9
	06-16-90	--	--	--	--	--	--	--	--	--
	10-12-90	1.8	5.2	2.2	3.9	1.7	--	--	--	--
CP-8	06-07-90	2.3	11	2.7	7.8	1.6	--	--	--	--
	10-17-90	1.5	7.6	1.9	5.7	1.5	.6	.200	--	--
CPDP-1	11-17-89	1.7	18	3.6	16	3.3	--	--	--	--
	10-16-90	5.9	32	6.7	24	5.0	.2	.100	--	--
CPDP-2	05-16-90	3.3	19	3.7	14	2.8	--	--	--	<1.0

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	RADON	Rn-222	URANIUM	U-234	URANIUM	U-235	URANIUM	U-238	URANIUM
		-222 TOTAL (pCi/L) (82303)	2 SIGMA WATER, WHOLE, TOTAL, (pCi/L) (76002)	-234 WATER DISSOLV (pCi/L) (22610)	2 SIGMA WATER, DISS, (pCi/L) (75992)	-235 WATER, DISS, (pCi/L) (22620)	2 SIGMA WATER, DISS, (pCi/L) (75994)	-238 WATER DISSOLV (pCi/L) (22603)	2 SIGMA WATER, DISS, (pCi/L) (75991)	NATURAL DIS- SOLVED (µg/L as U) (22703)
ARIZONA DEPARTMENT OF TRANSPORTATION WELL CLUSTER—Continued										
AD-1	11-14-89	330†	110	7.7	1.1	.3	.20	5.0	.80	6.2
	05-01-90	<80	34	5.8	1.0	1.0	.40	3.3	.70	8.9
	10-13-90	--	--	4.3	.4	.1	ND	2.6	.30	7.2
AD-3	07-13-89	210	--	16	1.7	1.6	.20	16	1.7	--
	07-13-89	210	42	11	1.2	1.0	.20	8.9	1.0	--
	09-22-89	330†	40	17	2.4	.4	.20	16	2.3	--
	05-01-90	270	40	22	2.7	1.6	.40	20	2.5	49†
	10-19-90	--	--	20	2.1	.5	.20	18	1.9	47†
AD-4	09-22-89	340†	46	3.3	.6	.1	.10	1.7	.40	--
	05-01-90	310†	39	3.3	.6	.3	.20	1.5	.40	4.4
	10-13-90	--	--	3.4	.4	<.1	ND	2.2	.20	7.2
AD-5	07-13-89	--	--	4.1	.7	.1	.20	2.7	.60	--
	11-13-89	200	98	4.0	.7	.2	.10	2.5	.50	7.0
	11-14-89	--	--	--	--	--	--	--	--	--
	05-04-90	290	--	4.0	.7	.2	.20	2.4	.50	7.0
	10-19-90	--	--	4.3	.4	<.1	ND	2.8	.30	8.3
ADDP-1	05-15-90	--	--	32	3.5	1.5	.40	29	3.2	68†
	06-13-91	--	--	5.9	.6	.2	ND	4.9	.50	13
CEDAR POINT WELL CLUSTER—Continued										
CP-1	09-21-89	240	47	.20	.1	<.1	ND	<.10	ND	--
	05-03-90	220	48	.20	.2	<.1	ND	.10	.10	<1.0
	05-03-90	200	51	--	--	--	--	--	--	--
	10-12-90	--	--	<.10	ND	<.1	ND	<.10	ND	<1.0
CP-2	09-21-89	390†	53	2.6	.5	.2	.10	1.4	.30	--
	05-03-90	500†	50	2.5	.5	.3	.20	1.6	.40	6.9
	10-12-90	--	--	3.2	.3	<.1	ND	1.9	.20	6.0
CP-3	09-21-89	810†	50	3.2	.6	.3	.20	2.1	.50	--
	05-03-90	860†	49	--	--	--	--	--	--	5.7
	10-17-90	--	--	2.9	.3	<.1	ND	1.8	.20	5.2
CP-4	09-21-89	--	--	8.3	1.1	.2	.10	7.1	1.0	--
	05-03-90	640†	50	12	1.6	1.6	.30	7.3	1.0	21†
	10-17-90	--	--	9.2	1.0	.3	ND	7.9	.80	21†
CP-5	09-20-89	520†	54	3.3	.6	.2	.20	1.9	.40	--
	05-07-90	350†	75	3.3	.3	<.1	ND	2.1	.20	4.2
	10-17-90	--	--	3.5	.4	<.1	ND	2.2	.30	6.1
CP-6	09-20-89	850†	68	3.6	.6	.3	.20	2.1	.40	--
	06-16-90	--	--	--	--	--	--	--	--	--
	10-12-90	--	--	3.0	.3	<.1	ND	1.8	.20	5.7
CP-8	06-07-90	600†	48	1.6	.2	<.1	ND	.40	ND	<1.0
	10-17-90	--	--	1.5	.2	<.1	ND	.40	ND	1.4
CPDP-1	11-17-89	--	--	10	1.4	.7	.20	8.9	1.2	18
	10-16-90	--	--	19	2.0	.5	.10	14	1.5	36†
CPDP-2	05-16-90	--	--	8.7	1.0	.3	.10	7.7	.90	20†

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	STATION NUMBER	DATE	TIME	LATITUDE	LONGITUDE
QUERINO ROAD WELL CLUSTER					
QR-1	351519109161501	09-19-89 04-30-90	1620 1750	35°15'19"N	109°16'15"W
QR-2	351519109161502	07-11-89 09-20-89 05-01-90	1030 1030 1105	35°15'19"N	109°16'15"W
QR-3	351519109161801	07-11-89 09-20-89 04-30-90	1415 1235 1550	35°15'19"N	109°16'18"W
QRDP-1	351527109161901	04-04-89 06-07-89 06-07-89	1545 1327 1300	35°15'27"N	109°16'19"W
UPSTR QRDP	351620109152101	06-08-89 06-08-89	1700 1730	35°16'20"N	109°15'21"W
LUPTON WELL CLUSTER					
LPT-1	351928109042601	06-05-90 10-11-90	1450 1145	35°19'28"N	109°04'26"W
LPT-2	351928109042602	06-05-90 10-11-90	1045 1345	35°19'29"N	109°04'26"W
LPT-3	351929109042401	06-05-90 10-12-90	1820 0800	35°19'29"N	109°04'24"W
LPT-4	351930109042701	06-07-90 10-11-90	1130 1410	35°19'30"N	109°04'27"W
LPDP-1	351942109041401	11-17-89 10-16-90 06-11-91	1700 1220 1500	35°19'42"N	109°04'14"W
MANUELITO WELL CLUSTER					
MAN-1	352742108563301	06-06-90 10-10-90	1200 1400	35°27'42"N	108°56'33"W
MAN-2	352742108563302	06-06-90 10-10-90	1450 1650	35°27'42"N	108°56'33"W
MAN-3	352743108563401	06-06-90 10-11-90	1810 0800	35°27'43"N	108°56'34"W
MANDP-1	352743108563201	04-05-89 10-16-90 06-11-91	1130 1010 0845	35°27'43"N	108°56'32"W

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (METERS) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS) (72019)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)	FLOW RATE INSTANTANEOUS (m ³ /s) (00059)	TEMPERATURE WATER (°C) (00010)	TURBIDITY (NTU) (00076)	OXIDATION-REDUCTION POTENTIAL (mV) (00090)	SPECIFIC CONDUCTANCE (μS/cm) (00095)
QUERINO ROAD WELL CLUSTER—Continued										
QR-1	09-19-89	1796.55	34.75	3.12	45	.0011	18.5	--	55	1190
	04-30-90			2.98	35	.0038	13.5	--	56	1190
QR-2	07-11-89	1796.61	8.99	4.08	--	.0019	18.5	--	--	1280
	09-20-89			.14	38	.0004	16.5	--	207	1280
	05-01-90			3.06	35	.0027	13.5	--	138	1130
QR-3	07-11-89	1794.39	8.84	1.17	--	.0011	16.5	--	--	1170
	09-20-89			.98	50	.0004	18.0	--	168	1160
	04-30-90			.85	55	.0030	13.4	--	376	1110
QRDP-1	04-04-89	1790	1.65	--	--	--	9.0	14	96	1100
	06-07-89		1.07	.57	--	--	21.0	--	89	1230
	06-07-89		1.07	.57	--	--	21.0	--	89	1230
UPSTR QRDP	06-08-89	1790	1.07	--	--	--	16.5	--	81	1250
	06-08-89		--	--	--	--	--	--	--	--
LUPTON WELL CLUSTER—Continued										
LPT-1	06-05-90	1888.52	21.64	--	87	.0019	14.5	--	28	2140
	10-11-90			1.04	--	--	13.5	--	50	2130
LPT-2	06-05-90	1888.76	6.10	1.01	72	.0027	16.5	--	46	2270
	10-11-90			1.08	--	--	17.0	--	73	2210
LPT-3	06-05-90	1890	8.08	--	88	.0027	13.5	--	28	2370
	10-12-90			2.07	--	--	14.0	--	69	2290
LPT-4	06-07-90	1890	8.99	1.70	73	.0027	15.5	--	57	2540
	10-11-90			1.78	--	--	15.0	--	77	2420
LPDP-1	11-17-89	1880	--	.32	34	.0008	6.5	--	245	2530
	10-16-90		--	.61	--	.0011	16.0	--	136	1890
	06-11-91		1.46	.15	25	.0004	15.5	--	122	3920
MANUELITO WELL CLUSTER—Continued										
MAN-1	06-06-90	1910	24.84	6.22	65	.0008	18.5	--	-14	863
	10-10-90			6.29	--	--	13.0	--	4	850
MAN-2	06-06-90	1910	13.72	7.73	90	.0008	19.0	--	272	2030
	10-10-90			7.72	--	--	14.0	--	241	2250
MAN-3	06-06-90	1910	15.70	7.72	90	.0004	18.5	--	182	2890
	10-11-90			7.88	--	--	12.0	--	165	2450
MANDP-1	04-05-89	1900	1.95	--	--	--	8.0	1.9	178	1760
	10-16-90		--	.03	10	.0011	17.0	--	80	1420
	06-11-91		--	1.46	--	--	15.5	--	105	2000

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SPE- CIFIC CON- DUCT- ANCE LAB (μ S/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (mg/L) (00340)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LITY WAT DIS FIX END FIELD CaCO3 (mg/L) (39036)	ALKA- LITY WAT DIS TOT IT FIELD mg/L as CaCO3 (39086)	ALKA- LITY LAB (mg/L as CaCO3) (90410)	BICAR- BONATE WATER DIS IT FIELD mg/L as HCO3 (00453)
QUERINO ROAD WELL CLUSTER—Continued										
QR-1	09-19-89	--	.3	--	7.5	8.1	260	--	--	327
	04-30-90	1150	.1	--	7.5	7.7	--	260	--	317
QR-2	07-11-89	1260	1.7	--	7.6	8.0	--	268	--	327
	09-20-89	--	1.5	--	7.4	8.0	260	--	--	317
	05-01-90	1190	1.2	--	7.2	7.7	--	259	--	316
QR-3	07-11-89	1150	1.5	--	7.6	8.1	--	234	--	286
	09-20-89	1160	.2	--	7.5	8.0	240	--	--	293
	04-30-90	1060	1.2	--	7.6	7.8	230	227	--	277
QRDP-1	04-04-89	1110	.3	23	7.4	7.8	260	256	233	312
	06-07-89	--	.8	--	7.4	--	240	242	--	295
	06-07-89	--	.8	--	7.4	--	240	242	--	295
UPSTR QRDP	06-08-89	--	.5	--	7.3	--	320	325	--	397
	06-08-89	--	--	--	--	--	--	--	--	--
LUPTON WELL CLUSTER—Continued										
LPT-1	06-05-90	2140	.1	--	7.4	7.6	460	480	460	573
	10-11-90	2160	.3	--	7.4	7.6	470	480	429	586
LPT-2	06-05-90	2240	.1	--	7.3	7.6	480	480	463	586
	10-11-90	2250	.4	--	7.2	7.5	480	485	464	592
LPT-3	06-05-90	2550	0	--	7.4	7.5	490	489	474	597
	10-12-90	2350	.3	--	7.4	7.5	496	502	464	613
LPT-4	06-07-90	2830	0	--	7.2	7.3	490	496	790	605
	10-11-90	2470	.3	--	7.1	7.5	480	484	470	591
LPDP-1	11-17-89	2270	3.7	--	7.0	8.0	320	325	--	397
	10-16-90	1940	.6	--	6.8	7.6	454	454	436	555
	06-11-91	3910	1.0	--	6.9	7.3	500	502	--	613
MANUELITO WELL CLUSTER—Continued										
MAN-1	06-06-90	848	0	--	7.5	7.7	440	443	448	541
	10-10-90	804	.3	--	7.6	7.6	449	450	458	549
MAN-2	06-06-90	2120	2.0	--	7.1	7.5	620	636	575	775
	10-10-90	2300	7.0	--	7.2	7.4	738	747	742	912
MAN-3	06-06-90	2340	2.2	--	6.9	7.6	798	804	459	981
	10-11-90	2590	4.9	--	7.1	7.3	--	810	641	988
MANDP-1	04-05-89	1830	.2	35	6.9	7.6	520	538	415	656
	10-16-90	1430	1.2	--	6.7	7.4	440	--	402	540
	06-11-91	1990	1.0	--	7.8	7.5	380	387	--	472

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SOLIDS, RESIDUE AT 180 °C DIS-SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS-SOLVED (mg/L) (70301)	SOLIDS, DIS-SOLVED (tons per ac-ft) (70303)	NITRO-GEN, AMMONIA DIS-SOLVED (mg/L as N) (00608)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as N) (00613)	NITRO-GEN, NITRATE DIS-SOLVED (mg/L as N) (00618)	NITRO-GEN, NO2+NO3 DIS-SOLVED (mg/L as N) (00631)	NITRO-GEN, NITRATE DIS-SOLVED (mg/L as NO3) (71851)	NITRO-GEN, NITRITE DIS-SOLVED (mg/L as NO2) (71856)	NITRO-GEN, AMMONIA + ORGANIC TOTAL (mg/L as N) (00625)
QUERINO ROAD WELL CLUSTER—Continued											
QR-1	09-19-89	--	726	.99	--	--	--	<.100	--	--	--
	04-30-90	--	684	.93	--	--	--	<.100	--	--	--
QR-2	07-11-89	--	--	--	--	--	--	<.100	--	--	--
	09-20-89	--	806	1.10	--	--	--	<.100	--	--	--
	05-01-90	--	741	1.01	--	--	--	<.100	--	--	--
QR-3	07-11-89	--	--	--	--	--	--	<.100	--	--	--
	09-20-89	--	724	.99	--	--	--	<.100	--	--	--
	04-30-90	--	633	.86	--	--	--	<.100	--	--	--
QRDP-1	04-04-89	708	718	.96	.770	--	--	<.100	--	--	1.0
	06-07-89	--	--	--	--	--	--	--	--	--	--
	06-07-89	--	--	--	--	--	--	--	--	--	--
UPSTR QRDP	06-08-89	--	--	--	--	--	--	--	--	--	--
	06-08-89	--	--	--	--	--	--	--	--	--	--
LUPTON WELL CLUSTER—Continued											
LPT-1	06-05-90	--	1420	1.93	2.20	.004	.013	.017	.06	.01	--
	10-11-90	1380	1380	1.88	--	--	--	<.010	--	--	--
LPT-2	06-05-90	--	1520	2.07	1.50	.003	.009	.012	.04	.01	--
	10-11-90	1460	1490	1.99	--	--	--	<.010	--	--	--
LPT-3	06-05-90	--	1700	2.32	2.10	<.001	--	.011	--	--	--
	10-12-90	1530	1540	2.08	--	--	--	<.010	--	--	--
LPT-4	06-07-90	--	1720	2.33	1.40	.005	.006	.011	.03	.02	--
	10-11-90	1650	1630	2.24	--	--	--	.020	--	--	--
LPDP-1	11-17-89	--	1800	2.45	--	--	--	--	--	--	--
	10-16-90	1240	1240	1.69	--	--	--	<.010	--	--	--
	06-11-91	2640	1690	3.59	--	--	--	<.005	--	--	--
MANUELITO WELL CLUSTER—Continued											
MAN-1	06-06-90	--	--	--	1.40	.002	--	<.010	--	.01	--
	10-10-90	519	515	.71	--	--	--	<.010	--	--	--
MAN-2	06-06-90	--	1500	2.05	.056	.005	.040	.045	.18	.02	--
	10-10-90	1570	1650	2.14	--	--	--	<.010	--	--	--
MAN-3	06-06-90	--	1670	2.27	.402	<.001	--	<.010	--	--	--
	10-11-90	1740	1770	2.37	--	--	--	<.010	--	--	--
MANDP-1	04-05-89	1290	1270	1.75	.720	--	--	<.100	--	--	1.0
	10-16-90	964	1020	1.31	--	--	--	.034	--	--	--
	06-11-91	1300	1240	1.77	--	--	--	.007	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO4) (00660)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO3) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)
QUERINO ROAD WELL CLUSTER—Continued											
QR-1	09-19-89	--	--	--	--	2.1	--	310	91	20	120
	04-30-90	--	--	--	--	1.6	--	340	100	22	120
QR-2	07-11-89	--	--	--	--	--	--	350	110	19	150
	09-20-89	--	--	--	--	2.6	--	350	110	18	140
	05-01-90	--	--	--	--	2.2	--	350	110	18	140
QR-3	07-11-89	--	--	--	--	--	--	260	81	13	150
	09-20-89	--	--	--	--	3.8	--	250	79	12	150
	04-30-90	--	--	--	--	3.2	--	230	73	11	150
QRDP-1	04-04-89	.090	.080	.060	.18	6.1	6.1	160	48	9.6	180
	06-07-89	--	--	--	--	--	--	270	80	17	170
	06-07-89	--	--	--	--	--	--	270	79	17	170
UPSTR QRDP	06-08-89	--	--	--	--	--	--	250	74	16	160
	06-08-89	--	--	--	--	--	--	260	76	16	170
LUPTON WELL CLUSTER—Continued											
LPT-1	06-05-90	--	--	.188	.58	4.4	--	320	92	22	370
	10-11-90	.100	--	--	--	4.5	--	320	88	23	350
LPT-2	06-05-90	--	--	.002	.01	4.5	--	370	100	29	390
	10-11-90	.002	--	--	--	4.5	--	340	94	26	370
LPT-3	06-05-90	--	--	.147	.45	4.9	--	440	120	34	430
	10-12-90	.069	--	--	--	4.9	--	360	100	26	390
LPT-4	06-07-90	--	--	.022	.07	4.2	--	340	73	38	530
	10-11-90	.006	--	--	--	4.2	--	410	110	31	400
LPDP-1	11-17-89	--	--	--	--	6.4	--	790	250	39	270
	10-16-90	.049	--	--	--	4.6	--	260	74	19	330
	06-11-91	.035	--	--	--	6.8	--	870	240	65	680
MANUELITO WELL CLUSTER—Continued											
MAN-1	06-06-90	--	--	.588	1.8	9.6	--	140	31	15	140
	10-10-90	.535	--	--	--	9.9	--	150	33	16	150
MAN-2	06-06-90	--	--	.008	.02	5.1	--	260	46	35	410
	10-10-90	.013	--	--	--	5.8	--	330	65	40	450
MAN-3	06-06-90	--	--	.004	.01	7.8	--	360	100	26	390
	10-11-90	.021	--	--	--	8.2	--	310	67	35	490
MANDP-1	04-05-89	.030	.030	.020	.06	5.6	5.6	440	130	27	230
	10-16-90	.042	--	--	--	8.0	--	390	110	27	180
	06-11-91	--	--	--	--	17	--	95	28	6.0	410

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SODIUM AD-SORPTION RATIO (00931)	SODIUM PERCENT (00932)	POTASSIUM, DIS-SOLVED (mg/L as K) (00935)	CHLORIDE, DIS-SOLVED (mg/L as Cl) (00940)	BROMIDE, DIS-SOLVED (mg/L as Br) (71870)	FLUORIDE, DIS-SOLVED (mg/L as F) (00950)	SILICA, DIS-SOLVED (mg/L as SiO ₂) (00955)	SULFATE, DIS-SOLVED (mg/L as SO ₄) (00945)	ARSENIC, DIS-SOLVED (μg/L as As) (01000)	BARIUM, DIS-SOLVED (μg/L as Ba) (01005)
QUERINO ROAD WELL CLUSTER—Continued											
QR-1	09-19-89	3	45	2.8	75	.46	.60	14	240	--	68
	04-30-90	3	43	2.5	87	--	.20	14	180	--	69
QR-2	07-11-89	3	--	--	62	.22	.50	12	330†	--	60
	09-20-89	3	46	4.3	53	.18	.50	12	310†	--	64
	05-01-90	3	46	3.3	51	.19	.10	11	250†	--	68
QR-3	07-11-89	4	--	--	57	.17	.60	10	290†	--	48
	09-20-89	4	57	3.1	53	.15	.60	11	270†	--	51
	04-30-90	4	59	2.6	58	.17	.60	10	190	--	49
QRDP-1	04-04-89	6	71	3.2	53	--	.70	7.8	260†	2	--
	06-07-89	5	--	--	--	--	--	11	--	--	80
	06-07-89	5	--	--	--	--	--	11	--	--	80
UPSTR QRDP	06-08-89	4	--	--	--	--	--	10	--	--	65
	06-08-89	5	--	--	--	--	--	10	--	--	66
LUPTON WELL CLUSTER—Continued											
LPT-1	06-05-90	9	71	1.7	210	.090	.70	12	420†	<1	50
	10-11-90	9	71	2.2	210	.080	.60	12	400†	<1	50
LPT-2	06-05-90	9	70	1.3	220	.070	.70	12	470†	5	77
	10-11-90	9	70	1.8	220	.080	.60	13	470†	6	58
LPT-3	06-05-90	9	68	2.1	170	.21	.20	12	630†	3	48
	10-12-90	9	70	2.2	220	.10	.60	12	480†	3	33
LPT-4	06-07-90	13	77	2.2	66	.71	.80	12	690†	84†	38
	10-11-90	9	68	2.0	200	.16	.60	12	580†	5	45
LPDP-1	11-17-89	4	43	3.6	140	--	1.2	11	880†	--	83
	10-16-90	9	73	2.0	160	.070	.70	11	370†	3	87
	06-11-91	10	63	4.1	150	.21	.30	14	220	2	110
MANUELITO WELL CLUSTER—Continued											
MAN-1	06-06-90	5	68	1.5	20	<.010	1.8	9.8	<1.0	82†	280
	10-10-90	5	68	1.6	22	.070	1.9	11	4.7	110†	320
MAN-2	06-06-90	11	77	1.4	46	.33	.70	11	570†	8	42
	10-10-90	11	75	.80	45	.27	.80	12	580†	<1	22
MAN-3	06-06-90	9	70	2.3	210	.060	<.10	12	440†	3	36
	10-11-90	12	77	1.8	58	.26	.70	12	620†	<1	45
MANDP-1	04-05-89	5	53	5.1	23	--	.30	11	520†	2	--
	10-16-90	4	50	4.9	48	.090	.50	12	360†	8	85
	06-11-91	18	90	5.1	120	.080	2.4†	11	420†	6	54

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	BORON, DIS- SOLVED (µg/L as B) (01020)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	CHRO- MIUM, HEXA- VALENT, DIS- SOLVED (µg/L as Cr) (01032)	COBALT, DIS- SOLVED (µg/L as Co) (01035)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)
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QUERINO ROAD WELL CLUSTER—Continued

QR-1	09-19-89	<.5	--	<1.0	<5	--	<3	<10	310‡	<10i	350‡
	04-30-90	<.5	--	<1.0	<5	--	<3	<10	670‡	<10i	410‡
QR-2	07-11-89	<.5	--	<1.0	<5	--	<3	<10	7	<10i	610‡
	09-20-89	<.5	--	<1.0	<5	--	<3	<10	36	<10i	910‡
	05-01-90	<.5	--	3.0	<5	--	<3	<10	78	<10i	980‡
QR-3	07-11-89	<.5	--	<1.0	<5	--	<3	<10	13	<10i	280‡
	09-20-89	<.5	--	<1.0	<5	--	<3	<10	20	10‡	460‡
	04-30-90	<.5	--	<1.0	<5	--	<3	<10	12	<10i	260‡
QRDP-1	04-04-89	--	170	<1.0	--	1	3	7	--	<5	--
	06-07-89	<.5	--	<1.0	<5	--	<3	<10	730‡	10‡	2900‡
	06-07-89	<.5	--	<1.0	<5	--	<3	<10	750‡	<10i	3000‡
UPSTR QRDP	06-08-89	<.5	--	<1.0	5	--	<3	20	660‡	<10i	730‡
	06-08-89	<.5	--	2.0	<5	--	<3	<10	640‡	10‡	740‡

LUPTON WELL CLUSTER—Continued

LPT-1	06-05-90	<2i	560	3.0	<20	--	<9	<30	1900‡	<30i	590‡
	10-11-90	<2i	550	<3.0	<20	--	<9	<30	2000‡	<30i	620‡
LPT-2	06-05-90	<2i	500	24‡	<20	--	<9	<30	2400‡	<30i	1000‡
	10-11-90	<2i	580	<3.0	<20	--	<9	<30	2800‡	<30i	880‡
LPT-3	06-05-90	<2i	520	6.0‡	<20	--	<9	<30	2500‡	30‡	1200‡
	10-12-90	<2i	560	<3.0	<20	--	<9	<30	2600‡	<30i	790‡
LPT-4	06-07-90	<2i	400	8.0‡	<20	--	<9	<30	270	40‡	970‡
	10-11-90	<2i	530	<3.0	<20	--	<9	<30	2900‡	<30i	1100‡
LPDP-1	11-17-89	<1	--	<2.0	<10	--	7	<20	150	<20i	4500‡
	10-16-90	<.5	600	<1.0	<5	--	<3	<10	520‡	<10i	1800‡
	06-11-91	<2i	--	<3.0	<20	--	<9	<30	490‡	<30i	6900‡

MANUELITO WELL CLUSTER—Continued

MAN-1	06-06-90	<.5	210	2.0	<5	--	<3	10	2000‡	<10i	120‡
	10-10-90	<.5	200	<1.0	<5	--	<3	<10	3100‡	<10i	150‡
MAN-2	06-06-90	<2i	300	31‡	<20	--	<9	<30	19	<30i	400‡
	10-10-90	<2i	330	<3.0	<20	--	<9	<30	21	<30i	1000‡
MAN-3	06-06-90	<2i	520	7.0‡	<20	--	<9	<30	2000‡	<30i	810‡
	10-11-90	<2i	370	<3.0	<20	--	<9	<30	660‡	<30i	900‡
MANDP-1	04-05-89	--	140	<1.0	--	1	7	7	--	<5	--
	10-16-90	<.5	170	2.0	<5	--	<3	<10	7000‡	<10i	2700‡
	06-11-91	<.5	--	<1.0	<5	--	7	<10	58	<10i	520‡

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	MERCURY DIS- SOLVED ($\mu\text{g/L}$ as Hg) (71890)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)	ALUM- INUM, DIS- SOLVED ($\mu\text{g/L}$ as Al) (01106)	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)
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QUERINO ROAD WELL CLUSTER—Continued

QR-1	09-19-89	--	<10	<10	<1.0	930	<6	13	--	29	--
	04-30-90	--	10	<10	2.0	1000	<6	9	--	28	--
QR-2	07-11-89	--	20	<10	<1.0	1100	<6	15	--	28	--
	09-20-89	--	20	<10	2.0	1100	<6	9	--	25	--
	05-01-90	--	20	<10	2.0	1100	<6	5	--	22	--
QR-3	07-11-89	--	20	<10	1.0	820	<6	7	--	21	--
	09-20-89	--	20	10	<1.0	800	<6	5	--	20	--
	04-30-90	--	20	10	1.0	730	<6	3	--	17	--
QRDP-1	04-04-89	<.1	--	7	--	660	--	26	<10	--	<1
	06-07-89	--	10	<10	<1.0	1100	<6	12	--	18	--
	06-07-89	--	10	<10	<1.0	1100	<6	13	--	17	--
UPSTR QRDP	06-08-89	--	<10	<10	<1.0	990	<6	5	--	23	--
	06-08-89	--	<10	<10	<1.0	1000	<6	6	--	22	--

LUPTON WELL CLUSTER—Continued

LPT-1	06-05-90	--	<30	<30	<3.0	1900	<18	23	--	27	<1
	10-11-90	--	2	<30	<3.0	1800	<18	<9	--	25	<1
LPT-2	06-05-90	--	<30	<30	4.0	2300	<18	<9	--	23	<1
	10-11-90	--	<4	<30	<3.0	2100	<18	<9	--	24	<1
LPT-3	06-05-90	--	<30	<30	5.0	2600	<18	10	--	31	<1
	10-12-90	--	1	<30	<3.0	1900	<18	<9	--	25	<1
LPT-4	06-07-90	--	<30	<30	5.0	1700	<18	9	--	19	<1
	10-11-90	--	<3	<30	<3.0	2300	<18	10	--	26	<1
LPDP-1	11-17-89	--	<20	30	<2.0	3200	<12	420	--	31	--
	10-16-90	--	6	<10	<1.0	1500	<6	4	--	23	<1
	06-11-91	--	<30	<30	<3.0	4800	<18	72	--	40	<1

MANUELITO WELL CLUSTER—Continued

MAN-1	06-06-90	--	40	<10	1.0	760	<6	4	--	6	<1
	10-10-90	--	25	<10	<1.0	800	<6	5	--	<4	<1
MAN-2	06-06-90	--	<30	40	6.0	1600	<18	<9	--	18	<1
	10-10-90	--	<1	<30	<3.0	1700	<18	<9	--	14	<1
MAN-3	06-06-90	--	<30	<30	4.0	1900	<18	<9	--	27	<1
	10-11-90	--	1	<30	<3.0	1500	<18	<9	--	<12	<1
MANDP-1	04-05-89	<.1	--	8	--	1700	--	21	<10	--	<1
	10-16-90	--	2	<10	<1.0	1600	<6	6	--	16	<1
	06-11-91	--	10	<10	<1.0	550	<6	8	--	13	<1

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (pCi/L) (07000)	GROSS ALPHA, DIS- SOLVED (µg/L as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS (µg/L as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL (µg/L as U-nat) (80040)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)
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QUERINO ROAD WELL CLUSTER—Continued

QR-1	09-19-89	--	--	--	--	3.9	0.80	--	5.8	1.8
	04-30-90	--	--	--	--	4.9	1.6	--	6.1	2.1
QR-2	07-11-89	-4.70	-80.0	-9.85	39	9.5	1.7	--	1.6	3.4
	09-20-89	--	--	--	--	5.7	1.0	--	26	3.9
	05-01-90	--	--	--	--	7.6	1.9	--	9.4	2.5
QR-3	07-11-89	-3.30	-74.0	-9.50	35	4.8	1.1	--	4.2	3.6
	09-20-89	--	--	--	--	15†	2.4	--	10	3.3
	04-30-90	--	--	--	--	5.2	1.5	--	9.6	2.3
QRDP-1	04-04-89	-5.10	-84.0	-11.25	28	16†	2.8	3.4*	9.2	2.1
	06-07-89	--	--	--	--	8.3	1.3	--	12	2.2
	06-07-89	--	--	--	--	7.1	1.1	--	<10	ND
UPSTR QRDP	06-08-89	--	--	--	--	29†	3.3	--	<29	4.8
	06-08-89	--	--	--	--	--	--	--	--	--

LUPTON WELL CLUSTER—Continued

LPT-1	06-05-90	13.30	-90.4	-12.20	--	6.4	2.6	--	6.3	3.0
	10-11-90	--	--	--	--	1.8	.90	--	4.6	3.1
LPT-2	06-05-90	12.70	-91.0	-12.15	<2.5	9.3	3.1	--	6.9	3.1
	10-11-90	--	--	--	--	4.9	1.4	--	5.9	3.4
LPT-3	06-05-90	-4.40	-88.0	-11.75	<2.5	9.7	3.3	--	8.1	3.8
	10-12-90	--	--	--	--	1.8	.80	--	4.9	3.5
LPT-4	06-07-90	4.10	-92.5	-12.35	<2.5	22†	6.5	--	11	4.4
	10-11-90	--	--	--	--	3.1	1.2	--	4.9	3.6
LPDP-1	11-17-89	-2.00	-68.5	-8.55	24	12†	1.9	--	17	3.4
	10-16-90	--	--	--	--	5.9	1.6	--	5.8	3.1
	06-11-91	13.10	--	--	--	8.6	1.9	--	14	6.0

MANUELITO WELL CLUSTER—Continued

MAN-1	06-06-90	--	-106.0	-14.05	--	1.6	1.0	--	2.9	1.5
	10-10-90	--	--	--	--	1.0	.70	--	1.8	1.5
MAN-2	06-06-90	3.30	-84.0	-11.30	14	32†	10	--	9.3	3.5
	10-10-90	--	--	--	--	8.7	1.9	--	11	4.4
MAN-3	06-06-90	12.50	-92.0	-12.20	<2.5	4.7	1.8	--	4.0	3.0
	10-11-90	--	--	--	--	11†	4.0	--	11	4.7
MANDP-1	04-05-89	5.90	-94.5	-12.85	2.9	120†	12	1.5*	32	5.1
	10-16-90	--	--	--	--	2.3	1.0	--	7.9	2.6
	06-11-91	-1.10	--	--	--	11†	2.1	--	11	3.5

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	Ra-226, DIS- SOLVED, PLAN- CHET COUNT (pCi/L) (09510)	Ra-226 2 SIGMA WATER, DISS, (pCi/L) (76001)	RADIUM -226, DIS- SOLVED, RADON METHOD (pCi/L) (09511)	RADIUM -228 DIS- SOLVED (pCi/L as Ra-228) (81366)

QUERINO ROAD WELL CLUSTER—Continued

QR-1	09-19-89	--	5.2	1.6	--	--	--	--	<1.0
	04-30-90	--	4.6	1.6	--	--	--	--	--
QR-2	07-11-89	--	1.3	2.7	--	--	.020	.08	<1.0
	09-20-89	--	24	3.5	--	--	--	--	<1.0
	05-01-90	--	7.0	1.9	--	--	--	--	--
QR-3	07-11-89	--	3.3	2.8	--	--	.030	.17	1.2
	09-20-89	--	9.0	2.9	--	--	--	--	<1.0
	04-30-90	--	7.3	1.8	--	--	--	--	--
QRDP-1	04-04-89	4.0*	6.3	1.4	3.6*	--	--	--	--
	06-07-89	--	10	1.9	--	--	--	--	--
	06-07-89	--	<9.1	1.6	--	--	--	--	--
UPSTR QRDP	06-08-89	--	<23	3.9	--	--	--	--	--
	06-08-89	--	--	--	--	--	--	--	--

LUPTON WELL CLUSTER—Continued

LPT-1	06-05-90	--	4.7	2.3	--	--	--	--	--
	10-11-90	--	3.5	2.3	--	--	--	--	--
LPT-2	06-05-90	--	5.2	2.4	--	--	--	--	--
	10-11-90	--	4.5	2.6	--	--	--	--	--
LPT-3	06-05-90	--	6.0	2.8	--	--	--	--	--
	10-12-90	--	3.7	2.7	--	--	--	--	--
LPT-4	06-07-90	--	8.2	3.4	--	--	--	--	--
	10-11-90	--	3.7	2.8	--	--	--	--	--
LPDP-1	11-17-89	--	15	3.0	--	--	--	--	--
	10-16-90	--	4.5	2.4	--	<.1	ND	--	--
	06-11-91	--	10	4.5	--	--	--	--	--

MANUELITO WELL CLUSTER—Continued

MAN-1	06-06-90	--	2.2	1.1	--	--	--	--	--
	10-10-90	--	1.4	1.1	--	.1	.100	--	--
MAN-2	06-06-90	--	6.9	2.6	--	--	--	--	--
	10-10-90	--	8.1	3.3	--	.1	.100	--	--
MAN-3	06-06-90	--	3.0	2.2	--	--	--	--	--
	10-11-90	--	8.3	3.6	--	.2	.100	--	--
MANDP-1	04-05-89	22*	21	3.4	20*	--	--	--	--
	10-16-90	--	6.1	2.0	--	.1	.100	--	--
	06-11-91	--	8.6	2.6	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	Rn-222	URANIUM	U-234	URANIUM	U-235	URANIUM	U-238	URANIUM
		2 SIGMA	-234	2 SIGMA	-235	2 SIGMA	-238	2 SIGMA	
		WATER,	WATER	WATER,	WATER,	WATER,	WATER	WATER,	
		TOTAL,	DISSOLV	DISS,	DISS,	DISS,	DISSOLV	DISS,	
		(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)
		(82303)	(76002)	(22610)	(75992)	(22620)	(75994)	(22603)	(75991)

QUERINO ROAD WELL CLUSTER—Continued

QR-1	09-19-89	360†	31	2.4	.6	.3	.20	2.1	.50	--
	04-30-90	210	48	2.4	.5	.1	.20	1.5	.40	3.3
QR-2	07-11-89	490†	61	4.7	.5	.4	ND	2.3	.30	--
	09-20-89	590†	55	3.9	.7	.3	.20	2.8	.60	--
	05-01-90	480†	39	4.4	.7	.3	.20	2.8	.50	5.8
QR-3	07-11-89	390†	42	3.7	.4	.8	--	2.6	.30	--
	09-20-89	490†	52	2.3	.4	<.1	ND	1.4	.30	--
	04-30-90	500†	48	3.4	.7	.2	.20	2.8	.60	4.3
QRDP-1	04-04-89	270	67	14	1.6	.2	ND	1.5	.30	--
	06-07-89	--	--	--	--	--	--	--	--	--
	06-07-89	--	--	--	--	--	--	--	--	--
UPSTR QRDP	06-08-89	--	--	--	--	--	--	--	--	--
	06-08-89	--	--	--	--	--	--	--	--	--

LUPTON WELL CLUSTER—Continued

LPT-1	06-05-90	130	36	.20	ND	<.1	ND	.10	ND	<1.0
	10-11-90	--	--	.20	ND	<.1	ND	.10	ND	<1.0
LPT-2	06-05-90	380†	54	2.0	.2	<.1	ND	1.4	.20	2.9
	10-11-90	--	--	1.8	.2	<.1	ND	1.2	.20	4.0
LPT-3	06-05-90	290	56	.60	ND	<.1	ND	.40	ND	3.2
	10-12-90	--	--	.40	ND	<.1	ND	.30	ND	<1.0
LPT-4	06-07-90	230	51	1.9	.2	<.1	ND	1.3	.20	6.6
	10-11-90	--	--	1.5	.2	<.1	ND	.90	.10	3.0
LPDP-1	11-17-89	--	--	9.4	1.3	.6	.20	7.7	1.1	11
	10-16-90	--	--	2.7	.3	<.1	ND	1.9	.20	7.8
	06-11-91	--	--	7.8	.8	.2	ND	6.1	.60	7.6

MANUELITO WELL CLUSTER—Continued

MAN-1	06-06-90	370†	52	<.10	ND	<.1	ND	<.10	ND	<1.0
	10-10-90	--	--	<.10	ND	<.1	ND	<.10	ND	<1.0
MAN-2	06-06-90	540†	50	7.3	.8	.2	ND	4.5	.50	8.8
	10-10-90	--	--	7.5	.8	.2	ND	4.5	.50	13
MAN-3	06-06-90	490†	51	6.4	.7	.2	ND	3.7	.40	<1.0
	10-11-90	--	--	6.1	.6	.1	ND	3.6	.40	9.4
MANDP-1	04-05-89	440†	62	51	6.8	2.4	.70	43	5.8	--
	10-16-90	--	--	.60	ND	<.1	ND	.50	ND	2.3
	06-11-91	--	--	5.9	.6	.2	--	4.4	.50	10

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	STATION NUMBER	DATE	TIME	LATITUDE	LONGITUDE
GALLUP WELL CLUSTER					
GAL-2	353219108400301	10-24-90	1820	35°32'19"N	108°40'03"W
GAL-3	353218108400303	01-12-89	1600	35°32'18"N	108°40'03"W
		10-24-90	1700		
GAL-4	353218108400304	01-12-89	1730	35°32'18"N	108°40'03"W
		10-24-90	1530		
GALDP-1	353215108400401	05-17-90	1130	35°32'15"N	108°40'04"W
		10-15-90	1620		
NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS					
WIN-3U	353535108355003	01-11-89	1430	35°35'35"N	108°35'50"W
		10-24-90	1040		
WIN-3L	353535108355004	01-11-89	1510	35°35'35"N	108°35'50"W
		10-24-90	1250		
CON-3	353710108312803	01-11-89	1115	35°37'10"N	108°31'28"W
CONDP-1	353717108312801	03-30-89	1130	35°37'17"N	108°31'28"W
		10-18-90	0835		
		06-10-91	1745		
BLM-1U	353742108293601	01-10-89	1600	35°37'42"N	108°29'36"W
NF WELL	353726108303702	11-18-89	1100	35°37'26"N	108°30'37"W
NFDP-1	353727108311501	03-30-89	1705	35°37'27"N	108°31'15"W
NFDP-2	353726108303701	11-18-89	1100	35°37'26"N	108°30'37"W

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (meters) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (meters) (72019)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (min) (72004)	FLOW RATE, INSTAN- TANEOUS (m ³ /s) (00059)	TEMPER- ATURE WATER (°C) (00010)	TUR- BID- ITY (NTU) (00076)	OXID- ATION RED- UCTION POTEN- TIAL (mV) (00090)
GALLUP WELL CLUSTER—Continued									
GAL-2	10-24-90	2000	12.2	4.17	--	.6	13.0	--	172
GAL-3	01-12-89	2000	3.7	3.77	--	--	10.0	30	10
	10-24-90			4.21	60	.6	13.5	--	96
GAL-4	01-12-89	2000	7.4	4.05	--	--	9.5	1.2	219
	10-24-90			4.05	49	1.0	12.0	--	200
GALDP-1	05-17-90	1980	.94	--	--	--	17.5	--	236
	10-15-90		--	.58	8	.1	14.0	--	124
NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued									
WIN-3U	01-11-89	2040	11.5	5.85	--	--	8.0	78	405
	10-24-90			5.55	64	.3	14.5	--	362
WIN-3L	01-11-89	2040	13.7	6.16	--	--	6.0	40	127
	10-24-90			6.07	74	.3	18.5	--	137
CON-3	01-11-89	2080	13.1	9.97	--	--	9.0	730	393
CONDP-1	03-30-89	2070	--	--	--	--	10.5	1.0	114
	10-18-90		--	.61	22	.2	12.0	--	213
	06-10-91		1.46	.76	26	.1	15.0	--	375
BLM-1U	01-10-89	2090	16.8	8.83	--	--	10.0	190	246
NF WELL	11-18-89	2085	--	--	--	--	--	--	--
NFDP-1	03-30-89	2090	--	--	--	--	9.5	12	200
NFDP-2	11-18-89	2085	--	.51	60	.2	9.0	--	315

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SPE- CIFIC CON- DUCT- ANCE (μ S/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μ S/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (mg/L) (00340)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LITY WAT DIS FIX END FIELD CaCO3 (mg/L) (39036)	ALKA- LITY WAT DIS TOT IT FIELD mg/L as CaCO3 (39086)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	1340	1370	.3	--	7.0	7.6	480	--
GAL-3	01-12-89	E1800	1890	.3	25	7.6	7.6	360	359
	10-24-90	2030	2070	.8	--	6.9	7.5	380	--
GAL-4	01-12-89	752	1640	0	19	7.1	7.3	432	--
	10-24-90	1590	1630	.3	--	6.8	7.3	450	--
GALDP-1	05-17-90	4910	5330	1.2	--	7.3	8.1	230	233
	10-15-90	1490	1610	.7	--	7.2	7.7	480	--

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	--	3790	.3	19	7.2	7.5	301	--
	10-24-90	3430	3430	1.7	--	7.1	7.6	280	--
WIN-3L	01-11-89	--	8060	90.0	--	7.1	7.4	757	--
	10-24-90	9240	8490	4.1	--	6.8	7.3	790	--
CON-3	01-11-89	384	947	--	17	7.5	7.7	213	--
CONDP-1	03-30-89	1320	1330	.2	--	7.1	7.8	240	239
	10-18-90	652	663	3.4	--	7.3	7.8	110	--
	06-10-91	469	450	3.3	--	7.3	7.8	160	159
BLN-1U	01-10-89	--	1140	.3	<10	7.0	7.6	190	198
NF WELL	11-18-89	--	--	--	--	--	--	--	--
NFDP-1	03-30-89	902	903	.1	--	7.1	7.7	210	--
NFDP-2	11-18-89	981	965	3.8	--	7.1	7.4	150	152

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALKA- LINITY LAB (mg/L as CaCO ₃) (90410)	BICAR- BONATE WATER DIS IT FIELD mg/L as HCO ₃ (00453)	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (tons per ac-ft) (70303)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as N) (00618)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (mg/L as N) (00631)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	488	588	858	861	1.17	--	--	--	.040
GAL-3	01-12-89	380	438	1280	1660	1.74	.140	--	--	.130
	10-24-90	389	470	1480	1430	2.01	--	--	--	.158
GAL-4	01-12-89	445	535	1100	1120	1.50	1.40	--	--	<.100
	10-24-90	447	550	1100	1110	1.50	--	--	--	<.010
GALDP-1	05-17-90	109	284	--	4110	5.58	.825	.005	.008	.013
	10-15-90	471	590	1060	1140	1.44	--	--	--	.035

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	314	369	3680	3470	5.00	.120	.160	--	1.20
	10-24-90	172	340	3080	3060	4.19	--	--	--	.086
WIN-3L	01-11-89	754	918	7040	7050	9.57	--	--	--	--
	10-24-90	768	979	5480	7530	7.45	--	--	--	.010
CON-3	01-11-89	199	262	613	632	.83	.060	--	--	5.60
CONDP-1	03-30-89	229	292	1020	986	1.39	.020	--	--	<.100
	10-18-90	104	130	463	435	.63	--	--	--	1.00
	06-10-91	--	194	273	282	.37	--	--	--	1.20
BLM-1U	01-10-89	192	242	874	845	1.19	.110	--	--	.270
NF WELL	11-18-89	--	--	--	--	--	--	--	--	--
NFDP-1	03-30-89	188	256	654	650	.89	.510	--	--	<.100
NFDP-2	11-18-89	--	185	--	681	.93	--	--	--	<.100

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as NO2) (71856)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO4) (00660)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO3) (00900)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	--	--	--	.010	--	--	--	2.3	--	190
GAL-3	01-12-89	--	--	.30	<.010	.010	<.010	--	--	1.9	360
	10-24-90	--	--	--	.001	--	--	--	2.5	--	460
GAL-4	01-12-89	--	--	1.5	<.010	<.010	.010	.03	--	3.4	360
	10-24-90	--	--	--	.008	--	--	--	3.5	--	330
GALDP-1	05-17-90	.03	.02	--	--	--	.010	.03	6.9	--	970
	10-15-90	--	--	--	.008	--	--	--	4.3	--	260

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	--	--	.70	.020	.110	.010	.03	--	4.2	1600
	10-24-90	--	--	--	.033	--	--	--	2.7	--	1600
WIN-3L	01-11-89	--	--	--	--	--	--	--	--	18	1500
	10-24-90	--	--	--	.062	--	--	--	9.2	--	1700
CON-3	01-11-89	--	--	.70	.010	.100	.010	.03	--	11	170
CONDP-1	03-30-89	--	--	.50	.010	.020	.040	.12	4.3	4.4	600
	10-18-90	--	--	--	.024	--	--	--	3.4	--	290
	06-10-91	--	--	--	.051	--	--	--	3.6	--	190
BLM-1U	01-10-89	--	--	.20	<.010	<.010	<.010	--	--	5.8	570
NF WELL	11-18-89	--	--	--	--	--	--	--	--	--	--
NFDP-1	03-30-89	--	--	.60	.030	.040	.020	.06	4.1	4.3	450
NFDP-2	11-18-89	--	--	--	--	--	--	--	--	6.8	460

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	56	11	240	8	74	.90	38	.25	.50	14
GAL-3	01-12-89	97	29	290	7	63	2.8	51	.65	.40	14
	10-24-90	130	32	300	6	59	2.6	58	.33	<.10	13
GAL-4	01-12-89	110	20	260	6	61	1.8	40	.17	.70	14
	10-24-90	100	19	250	6	62	1.5	43	.19	.60	13
GALDP-1	05-17-90	300	52	990	14	69	8.8	300‡	.20	<.10	7.1
	10-15-90	74	19	330	9	73	5.2	37	.22	.50	11

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	440	130	370	4	33	2.4	28	.26	.50	9.2
	10-24-90	460	110	290	3	28	2.5	14	.14	<.10	8.6
WIN-3L	01-11-89	200	250	1600	18	69	5.9	33	1.0	1.7	9.7
	10-24-90	210	280	1700	18	69	8.0	33	1.3	1.0	8.4
CON-3	01-11-89	57	7.6	130	4	61	4.1	8.2	.054	.40	9.9
CONDP-1	03-30-89	180	36	68	1	20	4.7	13	<.010	.40	7.9
	10-18-90	88	18	20	.5	13	5.1	5.9	.020	.40	8.4
	06-10-91	59	10	21	.7	19	4.4	2.7	.18	.60	11
BLM-1U	01-10-89	180	28	27	.5	9	5.9	4.0	.058	.40	7.4
NF WELL	11-18-89	--	--	--	--	--	--	--	--	--	--
NFDP-1	03-30-89	140	24	21	.4	9	5.9	13	<.010	.40	7.9
NFDP-2	11-18-89	140	26	24	.5	10	4.8	4.2	.030	.40	8.7

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)	BORON, DIS- SOLVED (μg/L as B) (01020)	CADMIUM DIS- SOLVED (μg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (μg/L as Cr) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (μg/L as Cr) (01032)	COBALT, DIS- SOLVED (μg/L as Co) (01035)	COPPER, DIS- SOLVED (μg/L as Cu) (01040)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	210	<1	17	<.5	230	<1.0	<5	--	<3	<10
GAL-3	01-12-89	600‡	<1	<100	--	250	<1.0	--	<1	<1	<1
	10-24-90	660‡	<1	20	<.5	260	<1.0	<5	--	<3	<10
GAL-4	01-12-89	410‡	<1	<100	--	200	<1.0	--	<1	<1	1
	10-24-90	410‡	<1	21	<.5	220	<1.0	<5	--	<3	<10
GALDP-1	05-17-90	2300‡	--	79	<21	--	<3.0	<20	--	<9	<30
	10-15-90	370‡	2	87	<.5	190	<1.0	<5	--	<3	<10

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	2300‡	<1	<100	--	240	<1.0	--	<1	<1	1
	10-24-90	2000‡	<1	24	<.5	250	<1.0	<5	--	<3	<10
WIN-3L	01-11-89	4500‡	--	--	--	--	--	--	--	--	--
	10-24-90	4800‡	4	<100	<101	580	<1.0	<1	--	5	3
CON-3	01-11-89	260‡	<1	<100	--	80	<1.0	--	<1	<1	7
CONDP-1	03-30-89	530‡	2	--	--	70	<1.0	--	3	<1	1
	10-18-90	220	<1	98	<.5	60	<1.0	<5	--	<3	<10
	06-10-91	72	2	35	<.5	--	<1.0	<5	--	<3	10
BLM-1U	01-10-89	470‡	<1	100	--	100	<1.0	--	<1	<1	2
NF WELL	11-18-89	--	--	--	--	--	--	--	--	--	--
NFDP-1	03-30-89	310‡	1	--	--	50	<1.0	--	4	<1	2
NFDP-2	11-18-89	380‡	--	50	<.5	--	<1.0	<5	--	<3	<10

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MERCURY DIS- SOLVED ($\mu\text{g/L}$ as Hg) (71890)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	74	<10i	74‡	--	3	<10	<1.0	540	<6	<3
GAL-3	01-12-89	2800‡	<5	60‡	.1	3	1	--	1400	4	<10
	10-24-90	2100‡	<10i	65‡	--	3	<10	1.0	1700	<6	<3
GAL-4	01-12-89	30	<5	140‡	.3	4	1	--	910	2	<10
	10-24-90	28	<10i	110‡	--	4	<10	<1.0	930	<6	<3
GALDP-1	05-17-90	48	<30i	3400‡	--	<30	<30	<3.0	3000	<18	<9
	10-15-90	510‡	<10i	1800‡	--	27	<10	<1.0	1500	<6	<3

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	40	<5	120‡	<.1	2	2	--	4600	<1	<10
	10-24-90	4	<10i	23	--	4	<10	<1.0	4100	<6	9
WIN-3L	01-11-89	--	--	--	--	--	--	--	--	--	--
	10-24-90	2800‡	<1	1800‡	--	7	4	<1.0	5000	6	<10
CON-3	01-11-89	160	<5	10	.4	200	3	--	610	4	<10
CONDP-1	03-30-89	--	<5	--	<.1	--	3	--	1700	--	210
	10-18-90	7	<10i	1	--	50	<10	<1.0	740	<6	<3
	06-10-91	34	<10i	5	--	20	<10	<1.0	510	<6	8
BLM-1U	01-10-89	160	<5	210‡	<.1	1	<1	--	1400	<1	30
NF WELL	11-18-89	--	--	--	--	--	--	--	--	--	--
NFDP-1	03-30-89	--	<5	--	<.1	--	2	--	1400	--	30
NFDP-2	11-18-89	11	<10i	660‡	--	<10	<10	<1.0	1200	<6	<3

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALUM- INUM, DIS- SOLVED ($\mu\text{g/L}$ as Al) (01106)	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (pCi/L) (07000)	GROSS ALPHA, DIS- SOLVED ($\mu\text{g/L}$ as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS ($\mu\text{g/L}$ as U-nat) (75986)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	--	24	<3	--	--	--	--	27†	3.8
GAL-3	01-12-89	<10	--	1	-4.60	-87.0	-11.70	21	47†	6.2
	10-24-90	--	30	<1	--	--	--	--	21†	3.3
GAL-4	01-12-89	10	--	<1	-1.10	-88.5	-12.05	<2.5	18†	3.0
	10-24-90	--	19	<3	--	--	--	--	16†	2.8
GALDP-1	05-17-90	--	110	--	6.10	-79.5	-9.95	13	160†	43
	10-15-90	--	22	<2	--	--	--	--	110†	12

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	10	--	1	-13.00	-83.0	-11.15	42	140†	15
	10-24-90	--	72	<3	--	--	--	--	130†	14
WIN-3L	01-11-89	--	--	--	-11.80	-75.5	-10.25	<2.5	73†	8.5
	10-24-90	--	50	<1	--	--	--	--	46†	7.4
CON-3	01-11-89	80	--	54†	-10.60	-84.9	-11.50	--	720†	65
CONDP-1	03-30-89	<10	--	<1	-8.20	-84.0	-11.60	28	590†	58
	10-18-90	--	25	<1	--	--	--	--	220†	27
	06-10-91	--	21	10	-6.10	--	--	--	110†	12
BLM-1U	01-10-89	20	--	<1	-14.90	-86.5	-11.55	73	12†	2.3
NF WELL	11-18-89	--	--	--	--	--	--	--	5.6	--
NFDP-1	03-30-89	<10	--	<1	-11.70	-68.5	-9.50	28	11†	3.3
NFDP-2	11-18-89	--	14	--	-11.20	-88.0	-12.95	22	3.7	.90

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	GROSS ALPHA, SUSP. TOTAL (µg/L as U-nat) (80040)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP, TOT DRY (pCi/G Sr-90/ Y-90) (76005)	Ra-226, DIS- SOLVED, PLAN- CHET COUNT (pCi/L) (09510)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	--	19	4.1	--	15	3.1	--	--	.1
GAL-3	01-12-89	<.6*	12	3.1	7.5*	8.0	2.1	7.4*	1.3	--
	10-24-90	--	25	5.8	--	19	5.0	--	--	.2
GAL-4	01-12-89	.7*	5.2	2.0	2.6*	3.4	1.3	2.6*	.70	--
	10-24-90	--	11	3.4	--	8.3	2.6	--	--	<.1
GALDP-1	05-17-90	--	94	17	--	72	13	--	--	--
	10-15-90	--	77	11	--	58	8.2	--	--	.1

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	9.6*	32	7.5	37*	21	5.0	32*	5.0	--
	10-24-90	--	54	11	--	41	8.7	--	--	<.1
WIN-3L	01-11-89	26*	.31	14	27*	21	9.2	24*	4.6	--
	10-24-90	--	27	15	--	21	12	--	--	.2
CON-3	01-11-89	49*	260	28	170*	180	20	150*	21	--
CONDP-1	03-30-89	1.9*	140	16	82*	90	11	79*	9.2	--
	10-18-90	--	150	17	--	120	13	--	--	.1
	06-10-91	--	53	6.4	--	39	4.8	--	--	--
BLM-1U	01-10-89	23*	12	2.6	15*	7.7	1.7	13*	3.2	--
NF WELL	11-18-89	--	9.9	--	--	8.6	--	--	--	--
NFDP-1	03-30-89	4.4*	13	2.5	4.4*	9.2	1.8	3.9*	1.1	--
NFDP-2	11-18-89	--	8.6	1.5	--	7.8	1.4	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	Ra-226 2 SIGMA WATER, DISS, (pCi/L) (76001)	RADIUM -226, DIS- SOLVED, RADON METHOD (pCi/L) (09511)	RADIUM -228 DIS- SOLVED (pCi/L) as Ra-228 (81366)	RADON -222 TOTAL (pCi/L) (82303)	Rn-222 2 SIGMA WATER, WHOLE, TOTAL, (pCi/L) (76002)	LEAD -210 DIS- SOLVED (pCi/L) (17503)	Pb-210 2 SIGMA WATER, DISS, (pCi/L) (75995)	POLO- NIUM -210 DIS- SOLVED (pCi/L) (19503)	URANIUM -234 WATER DISSOLV (pCi/L) (22610)

GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	.100	--	--	--	--	--	--	--	16
GAL-3	01-12-89	.020	.06	<1.0	210	58	--	--	--	15
	10-24-90	.100	--	--	--	--	--	--	--	15
GAL-4	01-12-89	.020	.06	<1.0	120	78	--	--	--	7.6
	10-24-90	ND	--	--	--	--	--	--	--	7.6
GALDP-1	05-17-90	--	--	<1.0	620†	48	--	--	--	52
	10-15-90	.100	--	--	--	--	--	--	--	46

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	.020	.09	<1.0	200	34	--	--	--	67
	10-24-90	ND	--	--	--	--	--	--	--	49
WIN-3L	01-11-89	--	--	--	--	--	--	--	--	--
	10-24-90	.100	--	--	--	--	--	--	--	19
CON-3	01-11-89	--	--	--	1100†	40	--	--	--	320
CONDP-1	03-30-89	.040	.21	<1.9	1100†	49	<1.5	ND	<1.0	220
	10-18-90	.100	--	--	--	--	--	--	--	95
	06-10-91	--	--	--	--	--	--	--	--	45
BLM-1U	01-10-89	.030	.18	<1.0	580†	41	<1.5	ND	<1.0	4.4
NF WELL	11-18-89	--	--	--	--	--	--	--	--	5.7
NFDP-1	03-30-89	.030	.15	<1.2	600†	46	<1.5	ND	<1.0	3.2
NFDP-2	11-18-89	--	--	<1.0	--	--	--	--	--	2.4

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	U-234 2 SIGMA WATER, DISS, (pCi/L) (75992)	URANIUM -235 WATER, DISS, (pCi/L) (22620)	U-235 2 SIGMA WATER, DISS, (pCi/L) (75994)	URANIUM -238 WATER DISSOLV (pCi/L) (22603)	U-238 2 SIGMA WATER, DISS, (pCi/L) (75991)	URANIUM NATURAL DIS- SOLVED (μg/L as U) (22703)	THORIUM -230 DIS- SOLVED (pCi/L) (26503)	Th-230 2 SIGMA WATER, DISS, (pCi/L) (75997)	Th-232 WATER, DISS, (pCi/L) (75976)
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GALLUP WELL CLUSTER—Continued

GAL-2	10-24-90	1.6	.4	ND	11	1.1	27†	--	--	--
GAL-3	01-12-89	1.9	.3	.20	13	1.7	--	--	--	--
	10-24-90	1.5	.4	ND	12	1.2	27†	--	--	--
GAL-4	01-12-89	1.0	.1	ND	5.2	.70	--	--	--	--
	10-24-90	.8	.2	ND	5.2	.50	13†	--	--	--
GALDP-1	05-17-90	5.3	2.1	.50	50	5.1	140†	--	--	--
	10-15-90	0.9	1.0	.10	41	.90	140†	--	--	--

NORTH FORK PUERCO RIVER WELLS AND DRIVE POINTS—Continued

WIN-3U	01-11-89	8.3	1.9	.90	54	7.0	--	--	--	--
	10-24-90	4.9	1.4	.30	39	4.0	120†	--	--	--
WIN-3L	01-11-89	--	--	--	--	--	--	--	--	--
	10-24-90	2.0	.5	.10	13	1.4	40†	--	--	--
CON-3	01-11-89	41	18	6.9	290	38	--	--	--	--
CONDP-1	03-30-89	26	12	3.9	220	27	--	<1.0	ND	<1.0
	10-18-90	9.8	3.2	.80	96	9.9	220†	--	--	--
	06-10-91	4.7	1.5	.40	42	4.4	130†	--	--	--
BLM-1U	01-10-89	.5	.1	ND	2.8	.30	--	<1.0	ND	<1.0
NF WELL	11-18-89	--	.8	--	3.6	--	--	--	--	--
NFDP-1	03-30-89	.3	<.1	ND	2.1	.20	--	<1.0	ND	<1.0
NFDP-2	11-18-89	.5	.2	.10	1.5	.30	6.7	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	STATION NUMBER	DATE	TIME	LATITUDE	LONGITUDE
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS					
PAULSELL RANCH, PETRIFIED FOREST	345757109482001	07-14-89	1615	34°57'57"N	109°48'20"W
PETRIFIED FOREST-2	345850109475001	01-20-89	1630	34°58'50"N	109°47'50"W
PAULSELL RANCH, PINTA	350338109384801	07-12-89	1200	35°03'38"N	109°38'48"W
WATERFALL WINDMILL	351044109265401	05-10-90	1210	35°10'44"N	109°26'54"W
CHAMBERS WINDMILL	351039109251301	05-10-90	1000	35°10'39"N	109°25'13"W
PEPLOT WINDMILL	350925109254201	05-10-90	1535	35°09'25"N	109°25'42"W
ADOT YARD	351202109233001	01-19-89	1040	35°12'02"N	109°23'33"W
CEDAR POINT WINDMILL	351311109183701	05-16-90	1230	35°14'00"N	109°17'02"W
SANDERS SCHOOL	351254109194501	08-04-88 08-10-88 08-10-88 08-10-88 08-10-88 01-20-89 05-09-90	-- 1037 1205 1230 1310 1116 1150	35°12'54"N	109°19'45"W
ADOT INSPECTION STATION	351325109191601	05-09-90	1400	35°13'25"N	109°19'16"W
INDIAN RUINS	351400109220001	08-08-88 01-18-89	-- 1000	35°14'00"N	109°22'00"W
INDIAN CITY	352000109075001	01-18-89	1700	35°20'00"N	109°07'50"W
BEGAY WELL	351933109041701	05-08-90 05-08-90	1005 1125	35°19'33"N	109°04'17"W
NAVAHO RES 16K-340	353535108355005	10-23-90	1545	35°35'35"N	108°35'50"W
WATERFALL SPRING	351047109265001	08-11-88 05-08-90	1710 1410	35°10'47"N	109°26'50"W
HOLBROOK DP	345351110094401	05-14-90	1900	34°53'51"N	110°09'44"W
NAVAHO DP	350719109320801	06-12-91	1700	35°07'19"N	109°32'08"W
ALLENTOWN DP	351650109064801	06-11-91	1715	35°16'50"N	109°09'15"W
BLACK CREEK DP	351645109130001	05-16-90 05-16-90	1800 1700	35°16'45"N	109°13'00"W
SOUTH FORK DP	353232108384801	11-02-90	1524	35°32'32"N	108°38'48"W
BRIDGE-83 DP	353056108504401	03-29-89 10-16-90	1635	35°30'56"N	108°50'44"W
RIO PUERCO DP	354020107043301	05-18-90	1630	35°40'20"N	107°04'33"W

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (METERS (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (METERS) (72019)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	FLOW RATE, INSTAN- TANEOUS (m ³ /s) (00059)	TEMPER- ATURE WATER (°C) (00010)	TUR- BID- ITY (NTU) (00076)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued								
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	1620	13.7	4.36	--	--	18.0	--
PETRIFIED FOREST-2	01-20-89	1620	33.5	--	--	--	16.0	1.1
PAULSELL RANCH, PINTA	07-12-89	1670	16.8	--	--	.0038	16.5	--
WATERFALL WINDMILL	05-10-90	1750	--	--	1	.0019	15.0	--
CHAMBERS WINDMILL	05-10-90	1820	--	--	--	.0019	17.0	--
PEPLOTE WINDMILL	05-10-90	1850	61.0	--	--	--	16.0	--
ADOT YARD	01-19-89	1760	--	--	--	--	15.5	.70
CP WINDMILL	05-16-90	1800	22.9	--	--	--	17.5	--
SANDERS SCHOOL	08-04-88	1770	48.8	--	--	--	--	--
	08-10-88			--	--	--	17.0	--
	08-10-88			--	--	--	13.5	--
	08-10-88			--	--	--	13.5	.50
	08-10-88			--	--	--	13.5	--
	01-20-89			--	--	--	13.0	.60
	05-09-90			--	155	.0038	14.0	--
ADOT INSP. STATION	05-09-90	1790	--	--	--	--	14.5	--
INDIAN RUINS	08-08-88	1870	--	--	--	--	--	--
	01-18-89		--	--	--	--	15.5	14
INDIAN CITY	01-18-89	2010	--	--	--	--	20.5	.90
BEGAY WELL	05-08-90	1860	3.07	2.1	60	.0038	11.5	--
	05-08-90			2.1	60	.0038	11.5	--
NAVAHO RES 16K-340	10-23-90	2040	43.0	--	--	--	11.0	--
WATERFALL SPRING	08-10-88	1740	--	--	--	--	--	--
	05-08-90		--	--	--	.0019	13.0	--
HOLBROOK DP	05-14-90	--	--	--	--	--	17.0	--
NAVAHO DP	06-12-91	1710	1.46	--	20	.0004	17.5	--
ALLEN TOWN DP	06-11-91	1830	1.46	.49	35	.0004	14.0	--
BLACK CREEK DP	05-16-90	1840	1.22	.35	--	--	12.5	--
	05-16-90		--	--	--	--	12.5	--
SOUTH FORK DP	11-02-90	2010	--	--	34	--	9.0	--
BRIDGE-83 DP	03-29-89	1930	--	--	--	--	12.5	3.0
	10-16-90		--	.061	--	.0008	10.0	--
	06-11-91		1.46	--	36	.0004	17.5	--
RIO PUERCO DP	05-18-90	1800	1.22	--	--	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	OXID- ATION RED- UCTION POTEN- TIAL (mV) (00090)	SPE- CIFIC CON- DUCT- ANCE (μ S/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μ S/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (mg/L) (00340)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LITY WAT DIS FIX END CaCO ₃ (mg/L) (39036)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued									
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	--	2820	2790	.3	--	8.1	8.1	700
PETRIFIED FOREST-2	01-20-89	-5	1500	1520	ND	<10	7.6	7.9	450
PAULSELL, RANCH PINTA	07-12-89	--	1390	1400	.4	--	7.8	8.0	340
WATERFALL WINDMILL	05-10-90	301	1510	1470	6.0	--	8.5	--	590
CHAMBERS WINDMILL	05-10-90	288	1670	1630	4.8	--	9.0	--	590
PEPLOT WINDMILL	05-10-90	290	390	371	5.6	--	7.8	--	120
ADOT YARD	01-19-89	-90	2210	2190	ND	30	8.6	8.9	1020
CP WINDMILL	05-16-90	189	1220	1200	1.8	--	7.4	7.8	240
SANDERS SCHOOL	08-04-88	--	--	1350	.3	--	7.6	--	--
	08-10-88	--	1160	--	ND	--	7.4	--	--
	08-10-88	--	1140	--	--	--	7.4	--	--
	08-10-88	229	1140	1150	ND	--	7.4	7.8	221
	08-10-88	--	1140	--	--	--	7.4	--	--
	01-20-89	50	1160	1150	ND	<10	7.2	7.7	240
	05-09-90	205	1150	1150	.1	--	7.4	7.9	230
ADOT INSP. STATION	05-09-90	--	1270	1260	ND	--	7.2	7.6	230
INDIAN RUINS	08-08-88	--	--	991	1.1	--	7.3	--	--
	01-18-89	88	862	863	ND	<10	6.9	7.5	259
INDIAN CITY	01-18-89	270	911	896	2.7	<10	6.8	7.6	244
BEGAY WELL	05-08-90	311	3270	3210	7.9	--	8.1	8.1	350
	05-08-90	311	3270	3180	7.9	--	8.1	8.2	--
NAVAHO RES 16K-340	10-23-90	284	1690	1750	3.1	--	7.3	8.0	580
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	220
	05-08-90	269	1170	1150	1.1	--	7.7	8.0	--
HOLBROOK DP	05-14-90	79	1700	1680	2.2	--	7.5	7.8	2000
NAVAHO DP	06-12-91	77	2050	2040	.7	--	7.1	7.5	460
ALLENTOWN DP	06-11-91	138	1450	1430	1.3	--	6.9	7.4	390
BLACK CREEK DP	05-16-90	22	916	909	.3	--	7.6	7.9	--
	05-16-90	--	916	906	.3	--	7.6	7.9	340
SOUTH FORK DP	11-02-90	272	508	487	.3	--	7.3	7.9	100
BRIDGE-83 DP	03-29-89	204	--	475	.4	48	7.2	7.8	480
	10-16-90	--	1710	1490	9.0	--	8.0	7.6	230
	06-11-91	97	2310	2280	.7	--	7.1	7.4	410
RIO PUERCO DP	05-18-90	86	2740	2850	<1	--	E7.4	7.4	380

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALKA- LITY WAT DIS TOT IT FIELD	ALKA- LITY LAB	CAR- BONATE WATER DIS IT FIELD	BICAR- BONATE WATER DIS IT FIELD	SOLIDS, RESIDUE AT 180 °C DIS- SOLVED	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED	SOLIDS, DIS- SOLVED (tons per ac-ft)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N)
		mg/L as CaCO3 (39086)	as CaCO3 (90410)	mg/L as CO3 (00452)	mg/L as HCO3 (00453)	(mg/L) (70300)	(mg/L) (70301)	(70303)	(00608)	(00613)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued										
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	708	--	--	864	--	--	--	--	--
PETRIFIED FOREST-2	01-20-89	451	442	--	550	955	967	1.30	.570	--
PAULSELL RANCH, PINTA	07-12-89	344	--	--	420	--	--	--	--	--
WATERFALL WINDMILL	05-10-90	--	342	55	610	--	--	--	.009	.047
CHAMBERS WINDMILL	05-10-90	--	579	67	585	--	--	--	.004	.015
PEPLOTE WINDMILL	05-10-90	--	122	--	150	--	--	--	.036	.070
ADOT YARD	01-19-89	--	1010	--	--	1390	1400	1.89	.010	--
CP WINDMILL	05-16-90	246	--	--	300	--	807	1.10	--	--
SANDERS SCHOOL	08-04-88	--	--	<1	228	785	720	1.07	2.10	--
	08-10-88	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--
	08-10-88	--	332	--	--	775	781	1.05	<.010	--
	08-10-88	--	--	--	--	--	--	--	--	--
	01-20-89	235	232	--	287	759	749	1.03	.010	--
	05-09-90	229	--	--	279	--	778	1.06	--	--
ADOT INSP. STATION	05-09-90	--	--	--	283	--	849	1.15	--	--
INDIAN RUINS	08-08-88	--	--	<1	253	578	483	.79	<.100	--
	01-18-89	--	255	--	--	558	534	.76	.180	--
INDIAN CITY	01-18-89	--	243	--	--	567	562	.77	.010	--
BEGAY WELL	05-08-90	349	--	--	--	--	2240	3.05	--	--
	05-08-90	349	--	--	--	--	2280	3.10	--	--
NAVAHO RES 16K-340	10-23-90	--	589	--	716	--	1180	1.60	--	--
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--
	05-08-90	222	--	--	271	--	728	.99	--	--
HOLBROOK DP	05-14-90	--	237	--	--	--	913	1.24	.042	<.001
NAVAHO DP	06-12-91	464	--	--	566	1370	1460	1.86	--	--
ALLEN TOWN DP	06-11-91	398	--	--	486	960	996	1.31	--	--
BLACK CREEK DP	05-16-90	336	270	--	410	--	769	1.05	.293	.002
	05-16-90	--	239	--	--	--	567	.77	--	--
SOUTH FORK DP	11-02-90	100	112	--	122	300	284	.41	--	--
BRIDGE-83 DP	03-29-89	480	437	--	586	3620	3550	4.92	.710	--
	10-16-90	--	224	--	290	1020	1010	1.39	--	--
	06-11-91	411	--	--	502	1500	1500	2.04	--	--
RIO PUERCO DP	05-18-90	374	224	--	456	--	2740	3.72	.605	.003

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as NO2) (71856)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO4) (00660)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)
		MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued									
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	--	<.100	--	--	--	--	--	--	--	--
PETRIFIED FOREST-2	01-20-89	--	<.100	--	--	.70	.150	.160	.140	.43	--
PAULSELL RANCH, PINTA	07-12-89	--	<.100	--	--	--	--	--	--	--	--
WATERFALL WINDMILL	05-10-90	.721	.768	3.2	.15	--	--	--	.001	ND	--
CHAMBERS WINDMILL	05-10-90	.013	.028	.06	.05	--	--	--	.004	.01	--
PEPLOT WINDMILL	05-10-90	.677	.747	3.0	.23	--	--	--	.001	ND	--
ADOT YARD	01-19-89	--	<.100	--	--	.40	.020	.020	.010	.03	--
CP WINDMILL	05-16-90	--	--	--	--	--	--	--	--	--	--
SANDERS SCHOOL	08-04-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	1.90	--	--	.30	.020	.020	<.010	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	01-20-89	--	2.10	--	--	.40	<.010	.010	<.010	--	--
	05-09-90	--	2.40	--	--	--	--	--	--	--	2.1
ADOT INSP. STATION	05-09-90	--	3.30	--	--	--	--	--	--	--	1.8
INDIAN RUINS	08-08-88	--	--	--	--	--	--	--	--	--	--
	01-18-89	--	<.100	--	--	.20	<.010	<.010	<.010	--	--
INDIAN CITY	01-18-89	--	1.50	--	--	.20	<.010	<.010	<.010	--	--
BEGAY WELL	05-08-90	--	<.100	--	--	--	--	--	--	--	4.5
	05-08-90	--	<.100	--	--	--	--	--	--	--	--
NAVAHO RES 16K-340	10-23-90	--	--	--	--	--	--	--	--	--	--
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--	--
	05-08-90	--	.500	--	--	--	--	--	--	--	2.0
HOLBROOK DP	05-14-90	--	.018	--	--	--	--	--	.080	.25	3.4
NAVAHO DP	06-12-91	--	.007	--	--	--	.072	--	--	--	8.2
ALLENTOWN DP	06-11-91	--	.006	--	--	--	.051	--	--	--	8.9
BLACK CREEK DP	05-16-90	.009	.011	.04	.01	--	--	--	.028	.09	2.4
	05-16-90	--	--	--	--	--	--	--	--	--	--
SOUTH FORK DP	11-02-90	--	.012	--	--	--	.030	--	--	--	6.2
BRIDGE-83 DP	03-29-89	--	<.100	--	--	1.0	.020	.040	.020	.06	11
	10-16-90	--	.054	--	--	--	.099	--	--	--	8.8
	06-11-91	--	.017	--	--	--	.554	--	--	--	11
RIO PUERCO DP	05-18-90	.017	.020	.08	.01	--	--	--	<.001	--	5.6

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	MAGNE- SIUM, TOTAL RECOV- ERABLE (mg/L as Mg) (00927)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM AD- SORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	POTAS- SIUM, TOTAL RECOV- ERABLE (mg/L as K) (00937)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued											
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	4.2	37	10	2.7	--	620	45	--	--	--
PETRIFIED FOREST-2	01-20-89	2.9	88	25	6.1	--	320	15	89	2.2	--
PAULSELL RANCH, PINTA	07-12-89	1.7	160	44	11	--	250	9	--	--	--
WATERFALL WINDM	05-10-90	--	--	--	--	--	--	--	--	--	--
CHAMBERS WINDMI	05-10-90	--	--	--	--	--	--	--	--	--	--
PEPLOTE WINDMIL	05-10-90	--	--	--	--	--	--	--	--	--	--
ADOT YARD	01-19-89	20	7	2.2	.40	--	580	94	99	5.8	--
CP WINDMILL	05-16-90	--	390	120	22	--	110	2	38	1.0	--
SANDERS SCHOOL	08-04-88	--	310	97	17	19	130	3	48	2.9	2.8
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	320	99	17	--	140	3	49	1.9	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	01-20-89	3.2	290	89	16	--	130	3	49	2.2	--
	05-09-90	--	300	93	16	--	140	4	50	1.9	--
ADOT INSP. STATION	05-09-90	--	490	130	39	--	90	2	29	4.9	--
INDIAN RUINS	08-08-88	--	370	110	23	24	31	.7	15	4.6	4.4
	01-18-89	4.2	380	110	24	--	33	.7	16	4.1	--
INDIAN CITY	01-18-89	1.9	340	89	29	--	50	1	24	2.9	--
BEGAY WELL	05-08-90	--	470	140	29	--	600	12	73	3.7	--
	05-08-90	--	480	140	30	--	620	12	74	4.5	--
NAVAHO RES 16K-340	10-23-90	--	490	130	40	--	210	4	48	3.0	--
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--	--
	05-08-90	--	190	54	12	--	180	6	67	8.4	--
HOLBROOK DP	05-14-90	--	290	83	20	--	230	6	63	3.8	--
NAVAHO DP	06-12-91	--	350	100	24	--	400	9	71	3.9	--
ALLEN TOWN DP	06-11-91	--	400	120	24	--	170	4	48	4.8	--
BLACK CREEK DP	05-16-90	--	330	93	24	--	69	2	31	2.8	--
	05-16-90	--	330	94	24	--	68	2	31	2.9	--
SOUTH FORK DP	11-02-90	--	110	33	6.0	--	58	2	53	3.8	--
BRIDGE-83 DP	03-29-89	14	670	160	65	--	780	13	72	5.6	--
	10-16-90	--	330	100	19	--	190	5	55	7.3	--
	06-11-91	--	370	110	23	--	430	10	71	7.7	--
RIO PUERCO DP	05-18-90	--	1600	470	98	--	170	2	19	9.3	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	ARSENIC TOTAL (μg/L as As) (01002)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BARIUM, TOTAL, RECOV- ERABLE (μg/L as Ba) (01007)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued											
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	340‡	.86	1.6	16	290‡	--	--	110	--	<.5
PETRIFIED FOREST-2	01-20-89	100	.26	1.0	19	220	<1	--	<100	--	--
PAULSELL RANCH, PINTA	07-12-89	53	.26	1.1	18	330‡	--	--	31	--	<.5
WATERFALL WINDMILL	05-10-90	58	.34	1.0	--	290‡	--	--	--	--	--
CHAMBERS WINDMILL	05-10-90	15	.040	7.9‡	--	250‡	--	--	--	--	--
PEPLOT WINDMILL	05-10-90	25	.32	.40	--	14	--	--	--	--	--
ADOT YARD	01-19-89	34	.028	3.3‡	10	150	1	--	<100	--	--
CP WINDMILL	05-16-90	63	.35	.80	15	330‡	--	--	30	--	<.5
SANDERS SCHOOL	08-04-88	57	--	.72	--	300‡	9	12	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	55	--	.60	15	310‡	1	1	37	100	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	01-20-89	54	.20	.70	15	290‡	<1	--	<100	--	--
	05-09-90	54	.22	.50	14	310‡	--	--	37	--	<.5
ADOT INSP. STATION	05-09-90	54	.36	.30	14	360‡	--	--	25	--	<.5
INDIAN RUINS	08-08-88	46	--	.23	--	140	14	14	--	--	--
	01-18-89	40	.39	.20	12	150	10	--	<100	--	--
INDIAN CITY	01-18-89	31	.24	1.3	14	190	<1	--	<100	--	--
BEGAY WELL	05-08-90	150	.24	.30	9.0	1100‡	--	--	40	--	<2i
	05-08-90	160	.30	.30	9.4	1100‡	--	--	37	--	<2i
NAVAHO RES 16K-340	10-23-90	27	.13	.60	11	400‡	<1	--	170	--	<.5
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--	--
	05-08-90	45	.17	.50	11	280‡	--	--	41	--	<.5
HOLBROOK DP	05-14-90	330‡	.040	.50	14	83	--	--	240	--	<.5
NAVAHO DP	06-12-91	100	.27	.30	17	530‡	6	--	160	--	<2i
ALLENTOWN DP	06-11-91	54	.040	.40	16	360‡	5	--	93	--	<.5
BLACK CREEK DP	05-16-90	54	.26	.30	12	150	--	--	260	--	<.5
	05-16-90	55	.29	.20	12	160	--	--	250	--	<.5
SOUTH FORK DP	11-02-90	39	.010	.40	6.0	77	<1	--	75	--	<.5
BRIDGE-83 DP	03-29-89	140	.34	.40	9.4	2100‡	1	--	--	--	--
	10-16-90	43	.060	.30	11	490‡	2	--	120	--	<.5
	06-11-91	110	.14	.80	15	550‡	3	--	140	--	<2i
RIO PUERCO DP	05-18-90	32	.060	<.10	13	1700‡	--	--	34	--	<2i

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	BORON, DIS- SOLVED (μg/L as B) (01020)	CADMIUM, DIS- SOLVED (μg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (μg/L as Cr) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (μg/L as Cr) (01032)	COBALT, DIS- SOLVED (μg/L as Co) (01035)	COBALT, TOTAL, RECOV- ERABLE (μg/L as Co) (01037)	COPPER, DIS- SOLVED (μg/L as Cu) (01040)	IRON, DIS- SOLVED (μg/L as Fe) (01046)	LEAD, DIS- SOLVED (μg/L as Mn) (01049)	MANGA- NESE, DIS- SOLVED (μg/L as Mn) (01056)
		MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued									
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	--	<1.0	<5	--	<3	--	<10	150	<10i	210‡
PETRIFIED FOREST-2	01-20-89	560	<1.0	--	1	<1	--	<1	--	<5	240‡
PAULSELL RANCH, PINTA	07-12-89	--	<1.0	<5	--	<3	--	<10	300‡	<10i	58‡
WATERFALL WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
CHAMBERS WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
PEPLOT WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
ADOT YARD	01-19-89	690	<1.0	--	<1	1	--	2	--	<5	20
CP WINDMILL	05-16-90	--	<1.0	<5	--	<3	--	<10	60	<10i	2
SANDERS SCHOOL	08-04-88	--	10‡	--	--	--	--	<10	10	--	30
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	190	<1.0	--	2	<1	1	2	9	8‡	31
	08-10-88	--	--	--	--	--	--	--	--	--	--
	01-20-89	190	<1.0	--	<1	<1	--	<1	--	<5	30
	05-09-90	--	<1.0	<5	--	<3	--	<10	17	<10i	30
ADOT INSP. STATION	05-09-90	--	<1.0	<5	--	<3	--	<10	340‡	<10i	320‡
INDIAN RUINS	08-08-88	--	5.0‡	--	--	--	--	<10	1200‡	--	160‡
	01-18-89	80	<1.0	--	3	1	--	<1	1300‡	<5	20
INDIAN CITY	01-18-89	80	<1.0	--	<1	<1	--	<1	--	<5	160‡
BEGAY WELL	05-08-90	--	<3.0	<20	--	<9	--	<30	18	<30i	E22
	05-08-90	--	<4.0	<20	--	<10	--	<40	21	<40i	E54‡
NAVAHO RES 16K-340	10-23-90	170	<1.0	<5	--	<3	--	<10	4	<10i	520‡
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--	--
	05-08-90	--	<1.0	<5	--	<3	--	<10	8	<10i	<1
HOLBROOK DP	05-14-90	--	<1.0	<5	--	<3	--	<10	2000‡	<10i	2500‡
NAVAHO DP	06-12-91	--	<3.0	<20	--	<9	--	<30	2500‡	<30i	3900‡
ALLENTOWN DP	06-11-91	--	<1.0	<5	--	5	--	<10	1300‡	<10i	4200‡
BLACK CREEK DP	05-16-90	--	<1.0	<5	--	<3	--	<10	1100‡	<10i	4700‡
	05-16-90	--	<1.0	<5	--	<3	--	<10	1000‡	<10i	4700‡
SOUTH FORK DP	11-02-90	90	<1.0	<5	--	<3	--	<10	31	<10i	180‡
BRIDGE-83 DP	03-29-89	190	<1.0	--	5	9	--	1	--	<5	--
	10-16-90	160	<1.0	<5	--	3	--	<10	55	<10i	920‡
	06-11-91	--	<3.0	<20	--	<9	--	<30	64	<30i	2500‡
RIO PUERCO DP	05-18-90	--	<3.0	<20	--	20	--	<30	8400‡	<30i	5000‡

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	MERCURY DIS- SOLVED (µg/L as Hg) (71890)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo) (01060)	MOLYB- DENUM, TOTAL RECOV- ERABLE (µg/L as Mo) (01062)	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	SILVER, TOTAL RECOV- ERABLE (µg/L as Ag) (01077)	STROM- TIUM, DIS- SOLVED (µg/L as Sr) (01080)	VANA- DIUM, DIS- SOLVED (µg/L as V) (01085)	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	ALUM- INUM, DIS- SOLVED (µg/L as Al) (01106)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued											
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	--	60	--	<10	2.0	--	510	18	15	--
PETRIFIED FOREST-2	01-20-89	<.1	18	--	<1	--	--	600	3	10	<10
PAULSELL RANCH, PINTA	07-12-89	--	40	--	<10	<1.0	--	1100	<6	4	--
WATERFALL WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
CHAMBERS WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
PEPLOT WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
ADOT YARD	01-19-89	<.1	15	--	3	--	--	100	51	10	10
CP WINDMILL	05-16-90	--	<10	--	<10	<1.0	--	1200	<6	1500	--
SANDERS SCHOOL	08-04-88	--	<10	<10	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	4	6	3	<1.0	1	940	<1	7	<10
	08-10-88	--	--	--	--	--	--	--	--	--	--
	01-20-89	<.1	4	--	1	--	--	900	<1	<10	<10
	05-09-90	--	10	--	<10	2.0	--	920	<6	7	--
ADOT INSP. STATION	05-09-90	--	<10	--	<10	<1.0	--	1500	<6	96	--
INDIAN RUINS	08-08-88	--	<10	<10	--	--	--	--	--	--	--
	01-18-89	<.1	3	--	<1	--	--	1300	<1	40	<10
INDIAN CITY	01-18-89	<.1	2	--	<1	--	--	1000	<1	490	<10
BEGAY WELL	05-08-90	--	<30	--	<30	4.0	--	3000	<18	23	--
	05-08-90	--	<40	--	<40	<4.0	--	3100	<24	<12	--
NAVAHO RES 16K-340	10-23-90	--	<10	--	<10	<1.0	--	2000	<6	120	--
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--	--
	05-08-90	--	<10	--	<10	<1.0	--	1300	<6	<3	--
HOLBROOK DP	05-14-90	--	<10	--	<10	1.0	--	1600	<6	25	--
NAVAHO DP	06-12-91	--	<30	--	<30	3.0	--	1500	<18	14	--
ALLENTOWN DP	06-11-91	--	<10	--	<10	1.0	--	1600	<6	57	--
BLACK CREEK DP	05-16-90	--	<10	--	<10	2.0	--	1000	<6	4	--
	05-16-90	--	<10	--	<10	<1.0	--	1000	<6	<3	--
SOUTH FORK DP	11-02-90	--	3	--	<10	<1.0	--	630	<6	15	--
BRIDGE-83 DP	03-29-89	.1	--	--	10	--	--	3700	--	10	20
	10-16-90	--	7	--	<10	<1.0	--	1300	<6	6	--
	06-11-91	--	<30	--	<30	4.0	--	1400	<18	<18	--
RIO PUERCO DP	05-18-90	--	<30	--	<30	5.0	--	4100	<18	11	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALUM- INUM, TOTAL RECOV- ERABLE (μg/L as Al) (01105)	LITHIUM DIS- SOLVED (μg/L as Li) (01130)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	SELE- NIUM, TOTAL (μg/L as Se) (01147)	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (pCi/L) (07000)	GROSS ALPHA, DIS- SOLVED (μg/L as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS (μg/L as U-nat) (75986)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued											
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	--	57	--	--	20.20	-79.5	-10.25	--	18†	2.6
PETRIFIED FOREST-2	01-20-89	--	--	<1	--	11.30	-77.0	-10.65	2.6	<.6	.50
PAULSELL RANCH, PIHTA	07-12-89	--	120	--	--	-2.80	-70.5	-9.45	--	24†	3.3
WATERFALL WINDMILL	05-10-90	--	--	--	--	--	--	--	--	20†	3.1
CHAMBERS WINDMILL	05-10-90	--	--	--	--	--	--	--	--	95†	10
PEPLOTE WINDMILL	05-10-90	--	--	--	--	--	--	--	--	5.3	1.5
ADOT YARD	01-19-89	--	--	<1	--	9.10	-89.5	-11.75	<2.5	380†	36
CP WINDMILL	05-16-90	--	48	--	--	-4.40	-74.0	-9.80	49	14†	3.3
SANDERS SCHOOL	08-04-88	--	--	2	2	--	-81.0	-10.80	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	21†	--
	08-10-88	--	--	--	--	--	--	--	--	18†	--
	08-10-88	<10	--	1	<1	--	--	--	50	23†	--
	08-10-88	--	--	--	--	--	--	--	--	19†	--
	01-20-89	--	--	1	--	-3.30	-78.5	-10.45	52	19†	3.8
	05-09-90	--	38	--	--	-11.50	-81.5	-10.60	39	15†	2.8
ADOT INSP. STATION	05-09-90	--	110	--	--	--	-75.0	-10.00	71	14†	2.5
INDIAN RUINS	08-08-88	--	--	5	12	--	-80.0	-10.80	--	--	--
	01-18-89	--	--	<1	--	-12.00	-79.0	-10.40	<2.5	54†	6.9
INDIAN CITY	01-18-89	--	--	3	--	9.10	-82.0	-11.05	9.3	9.3	2.0
BEGAY WELL	05-08-90	--	39	--	--	6.40	-77.0	-9.00	25	29†	4.2
	05-08-90	--	38	--	--	--	--	--	--	--	--
NAVAHO RES 16K-340	10-23-90	--	27	<10	--	--	--	--	<2.5	4.3	1.3
WATERFALL SPRING	08-10-88	--	--	--	--	--	-77.0	-10.80	--	17†	--
	05-08-90	--	65	--	--	-11.30	-78.5	-10.25	--	12†	2.4
HOLBROOK DP	05-14-90	--	21	--	--	25.80	-70.0	-9.60	2.9	2.1	.90
NAVAHO DP	06-12-91	--	41	<1	--	-5.80	--	--	--	13†	2.3
ALLENTOWN DP	06-11-91	--	18	<1	--	-2.30	--	--	--	13†	2.4
BLACK CREEK DP	05-16-90	--	20	--	--	7.70	-77.5	-10.20	45	2.7	1.1
	05-16-90	--	21	--	--	--	--	--	--	3.7	1.2
SOUTH FORK DP	11-02-90	--	9	<1	--	1.80	-52.0	-9.10	--	6.7	1.6
BRIDGE-83 DP	03-29-89	--	--	1	--	7.00	-88.0	-12.05	22	170†	17
	10-16-90	--	18	<1	--	--	--	--	--	15†	2.7
	06-11-91	--	22	<1	--	2.60	--	--	--	29†	4.2
RIO PUERCO DP	05-18-90	--	92	--	--	-13.90	-69.5	-9.50	38	9.0	2.6

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	GROSS ALPHA, DIS- SOLVED (pCi/L as U-nat) (01515)	GROSS ALPHA, SUSP. TOTAL (µg/L as U-nat) (80040)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP TOT DRY (pCi/g as Sr-90/ Y-90) (76005)	RADIUM -226, DIS- SOLVED (pCi/L) (09503)
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MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued

PAULSELL RANCH, PETRIFIED FOREST	07-14-89	--	--	4.3	8.6	--	3.4	6.8	--	--	--
PETRIFIED FOREST-2	01-20-89	--	<.6*	2.6	1.6	<.6*	1.7	1.0	<.6*	.40	--
PAULSELL RANCH, PINTA	07-12-89	--	--	16	5.4	--	13	4.3	--	--	--
WATERFALL WINDMILL	05-10-90	--	--	11	3.1	--	8.5	2.4	--	--	--
CHAMBERS WINDMILL	05-10-90	--	--	26	5.1	--	20	3.9	--	--	--
PEPLOT WINDMILL	05-10-90	--	--	5.4	1.5	--	4.0	1.4	--	--	--
ADOT YARD	01-19-89	--	.7*	210	31	2.0*	140	21	2.0*	.70	--
CP WINDMILL	05-16-90	--	--	5.0	1.9	--	3.8	1.5	--	--	--
SANDERS SCHOOL	08-04-88	1.8	--	4.5	--	--	--	--	--	--	.3
	08-10-88	--	<.4*	10	--	<.4*	6.9	--	<.4*	--	--
	08-10-88	--	<.4*	2.9	--	.5*	2.0	--	.5*	--	--
	08-10-88	--	<.4*	11	--	<.4*	7.4	--	<.4*	--	--
	08-10-88	--	.6*	9.0	--	.6*	6.2	--	.6*	--	--
	01-20-89	--	<.6*	7.2	1.9	<.6*	4.8	1.3	<.6*	.40	--
	05-09-90	--	--	10	2.5	--	7.5	1.9	--	--	--
ADOT INSP. STATION	05-09-90	--	--	11	2.8	--	8.4	2.1	--	--	--
INDIAN RUINS	08-08-88	50†	--	22	--	--	--	--	--	--	11
	01-18-89	--	2.8*	19	3.2	3.1*	13	2.2	3.1*	.80	--
INDIAN CITY	01-18-89	--	<.6*	5.4	1.6	<.6*	3.8	1.1	<.6*	.40	--
BEGAY WELL	05-08-90	--	--	19	6.0	--	14	4.5	--	--	--
	05-08-90	--	--	--	--	--	--	--	--	--	--
NAVAHO RES 16K-340	10-23-90	--	--	7.3	3.5	--	5.6	2.7	--	--	--
WATERFALL SPRING	08-10-88	--	.9*	3.2	--	.7*	2.1	--	.7*	--	--
	05-08-90	--	--	16	3.3	--	12	2.5	--	--	--
HOLBROOK DP	05-14-90	--	--	6.0	2.5	--	4.6	1.9	--	--	--
NAVAHO DP	06-12-91	--	--	17	3.8	--	12	2.8	--	--	--
ALLENTOWN DP	06-11-91	--	--	14	3.9	--	10	2.9	--	--	--
BLACK CREEK DP	05-16-90	--	--	6.9	2.1	--	5.2	1.6	--	--	--
	05-16-90	--	--	7.8	2.2	--	5.9	1.7	--	--	--
SOUTH FORK DP	11-02-90	--	--	8.0	1.6	--	6.0	1.2	--	--	--
BRIDGE-83 DP	03-29-89	--	<.6*	35	7.4	15*	22	4.7	15*	2.2	--
	10-16-90	--	--	19	4.3	--	15	3.2	--	--	--
	06-11-91	--	--	30	6.1	--	22	4.6	--	--	--
RIO PUERCO DP	05-18-90	--	--	24	6.8	--	18	5.1	--	--	--

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	RA-226	RADIUM	RADIUM	RADIUM	RADON	Rn-222	LEAD	POLO-	PB-210	URANIUM
		2 SIGMA WATER, DISS, (pCi/L) (76001)	DIS- SOLVED, METHOD (pCi/L) (09511)	DIS- SOLVED (pCi/L) as Ra-228 (81366)			2 SIGMA WATER, WHOLE, TOTAL, (pCi/L) (76002)	-210 DIS- SOLVED (pCi/L) (17503)	NIUM -210 DIS- SOLVED (pCi/L) (19503)	2 SIGMA WATER, DISS, (pCi/L) (75995)	-234 WATER DISSOLV (pCi/L) (22610)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued											
PAULSELL RANCH, PETRIFIED FOREST	07-14-89	.020	.07	1.4	--	290	39	--	--	--	4.1
PETRIFIED FOREST-2	01-20-89	.020	.09	<1.0	--	140	59	<1.5	<1.0	ND	.20
PAULSELL RANCH, PINTA	07-12-89	.020	.07	<1.0	--	360†	35	--	--	--	15
WATERFALL WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
CHAMBERS WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
PEPLOT WINDMILL	05-10-90	--	--	--	--	--	--	--	--	--	--
ADOT YARD	01-19-89	.020	.07	<1.0	--	15000†	130	6.7	<2.5	1.2	220
CP WINDMILL	05-16-90	--	--	--	--	--	--	--	--	--	4.2
SANDERS SCHOOL	08-04-88	--	--	ND	ND	--	--	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	6.5
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	.07	<1.0	--	--	--	--	--	--	6.3
	08-10-88	--	--	--	--	--	--	--	--	--	--
	01-20-89	.010	.05	<1.0	--	210	60	<1.5	<1.0	ND	6.4
	05-09-90	--	--	<1.0	--	200	31	--	--	--	6.3
ADOT INSP. STATION	05-09-90	--	--	<1.0	--	1500†	64	--	--	--	5.1
INDIAN RUINS	08-08-88	--	--	5.6	5.8	--	--	--	--	--	--
	01-18-89	2.40	14	<6.4	--	900†	64	<1.5	<1.0	ND	8.0
INDIAN CITY	01-18-89	.030	.18	<1.0	--	150	60	<1.5	<1.0	ND	4.2
BEGAY WELL	05-08-90	--	--	<1.0	--	--	--	--	--	--	13
	05-08-90	--	--	--	--	--	--	--	--	--	--
NAVAHO RES 16K-340	10-23-90	--	--	--	--	--	--	--	--	--	--
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--	--
	05-08-90	--	--	<1.0	--	--	--	--	--	--	5.2
HOLBROOK DP	05-14-90	--	--	1.0	--	--	--	--	--	--	.40
NAVAHO DP	06-12-91	--	--	--	--	--	--	--	--	--	6.8
ALLEN TOWN DP	06-11-91	--	--	--	--	--	--	--	--	--	6.6
BLACK CREEK DP	05-16-90	--	--	1.1	--	300†	54	--	--	--	.90
	05-16-90	--	--	<1.0	--	--	--	--	--	--	.80
SOUTH FORK DP	11-02-90	--	--	--	--	--	--	--	--	--	2.2
BRIDGE-83 DP	03-29-89	--	--	--	--	--	--	--	--	--	--
	10-16-90	.100	--	--	--	--	--	--	--	--	5.6
	06-11-91	--	--	--	--	--	--	--	--	--	18
RIO PUERCO DP	05-18-90	--	--	<1.0	--	--	--	--	--	--	7.8

GROUND-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	U-234	URANIUM	U-235	URANIUM	U-238	URANIUM	URANIUM	THORIUM	Th-230	Th-232
		2 SIGMA WATER, DISS, (pCi/L) (75992)	-235 WATER, DISS, (pCi/L) (22620)	2 SIGMA WATER, DISS, (pCi/L) (75994)	-238 WATER, DISSOLV (pCi/L) (22603)	2 SIGMA WATER, DISS, (pCi/L) (75991)	NATURAL DIS- SOLVED (µg/L as U) (22703)	NATURAL TOTAL (µg/L as U) (28011)	-230 DIS- SOLVED (pCi/L) (26503)	2 SIGMA WATER, DISS, (pCi/L) (75997)	Th-232 WATER, DISS, (pCi/L) (75976)
MISCELLANEOUS PRIVATE WELLS, SPRINGS AND DRIVEPOINTS—Continued											
PAULSELL RANCH,	07-14-89	.5	.3	ND	2.6	.30	--	--	--	--	--
PETRIFIED FOREST-2	01-20-89	ND	<.1	ND	.10	ND	--	--	<1.0	ND	<1.0
PAULSELL, PINTA	07-12-89	1.6	1.3	.20	12	1.3	--	--	--	--	--
WATERFALL WINDM	05-10-90	--	--	--	--	--	--	--	--	--	--
CHAMBERS WINDMI	05-10-90	--	--	--	--	--	--	--	--	--	--
PEPLOT WINDMIL	05-10-90	--	--	--	--	--	--	--	--	--	--
ADOT YARD	01-19-89	21	4.8	.50	92	8.8	--	--	<1.0	ND	<1.0
CP WINDMILL	05-16-90	.4	<.1	ND	2.7	.30	7.0	--	--	--	--
SANDERS SCHOOL	08-04-88	--	--	--	--	--	--	17	--	--	--
	08-10-88	--	--	--	4.3	--	13	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	08-10-88	--	--	--	4.4	--	13	--	--	--	--
	08-10-88	--	--	--	--	--	--	--	--	--	--
	01-20-89	.7	.2	ND	4.5	.50	--	--	<1.0	ND	<1.0
	05-09-90	.6	.2	ND	4.2	.40	9.2	--	--	--	--
ADOT INSP. STATION	05-09-90	.5	.1	ND	3.0	.30	6.1	--	--	--	--
INDIAN RUINS	08-08-88	--	--	--	--	--	--	5.6	--	--	--
	01-18-89	.8	<.1	ND	1.2	.20	--	--	<1.0	ND	<1.0
INDIAN CITY	01-18-89	.4	.1	ND	2.2	.30	--	--	<1.0	ND	<1.0
BEGAY WELL	05-08-90	1.3	.4	ND	9.1	.90	26†	--	--	--	--
	05-08-90	--	--	--	--	--	--	--	--	--	--
NAVAHO RES 16K-340	10-23-90	--	--	--	--	--	3.7	--	--	--	--
WATERFALL SPRING	08-10-88	--	--	--	--	--	--	--	--	--	--
	05-08-90	.5	.1	ND	3.7	.40	6.9	--	--	--	--
HOLBROOK DP	05-14-90	ND	<.1	ND	.30	ND	<1.0	--	--	--	--
NAVAHO DP	06-12-91	.7	.2	ND	5.3	.50	9.5	--	--	--	--
ALLEN TOWN DP	06-11-91	.7	.2	ND	5.5	.60	7.9	--	--	--	--
BLACK CREEK DP	05-16-90	.1	<.1	ND	.60	ND	1.3	--	--	--	--
	05-16-90	.1	<.1	ND	.50	ND	1.6	--	--	--	--
SOUTH FORK DP	11-02-90	.3	<.1	ND	1.7	.20	4.2	--	--	--	--
BRIDGE-83 DP	03-29-89	--	--	--	--	--	--	--	--	--	--
	10-16-90	.1	.2	ND	4.3	.10	11	--	--	--	--
	06-11-91	1.8	.6	ND	15	1.5	44†	--	--	--	--
RIO PUERCO DP	05-18-90	.8	.1	ND	4.3	.50	9.0	--	--	--	--

GROUND-WATER DATA

Well-Core Sediment Analyses

Radionuclide Analyses

Record ID	Depth below surface (meters)	Gross Alpha as ^{241}Am (pCi/g)	Gross Alpha as U-nat. (pCi/g)	Gross Beta as ^{137}Cs (pCi/g)	Gross Beta as $^{90}\text{Sr}/^{90}\text{Y}$ (pCi/g)	Uranium 238 (pCi/g)	Uranium 234 (pCi/g)	Radium 226 (pCi/g)	Radium 228 (pCi/g)	Thorium 232 (pCi/g)	Thorium 230 (pCi/g)	Lead 210 (pCi/g)
CW-2 Chambers Cluster (351043109270302)												
RC-88-0752	4.6	8.4.9	11.7±1.3	25.6±1.6	24.8±1.5	-	-	-	-	-	-	-
RC-88-0753	6.1	8.4±1.3	11.5±1.9	29.7±2.5	29.1±2.3	-	-	-	-	-	-	-
RC-88-0754	8.8	4.7±.9	7.3±1.5	18.5±1.5	17.7±1.4	-	-	-	-	-	-	-
RC-88-0755	9.3	11.6±1.4	18.7±2.8	23.3±1.8	22.2±1.7	-	-	-	-	-	-	-
RC-88-0756	16.0	4.3±.9	6.4±1.4	13.2±1.4	12.7±1.3	0.64±.07	0.60±.07	0.26±.02	1.10±.30	0.36±.05	0.34±.06	0.90±.90
RC-88-0757	25.0	12.2±1.5	20.0±3.0	23.1±1.8	22.0±1.7	-	-	-	-	-	-	-
CW-3 Chambers Cluster (351043109270303)												
RC-88-0758	6.4	9.9±1.3	15.1±2.3	24.7±2.0	23.7±1.8	0.88±.08	0.87±.08	0.57±.04	2.30±.30	0.73±.07	0.74±.08	2.10±.40
RC-88-0759	11.6	11.8±1.5	18.9±2.8	27.0±2.1	25.7±1.9	-	-	-	-	-	-	-
CW-4 Chambers Cluster (351038109270801)												
RC-88-0760	4.6	12.0±1.5	19.7±3.0	26.9±2.0	25.5±1.8	-	-	-	-	-	-	-
RC-88-0761	30.6	4.2±.9	6.1±1.4	7.3±1.2	7.1±1.2	0.59±.07	0.49±.06	0.36±.03	2.40±.30	0.52±.06	0.33±.06	0.10±.90
RC-88-0762	20.6	14.2±1.7	23.0±3.3	26.8±2.1	25.5±1.9	-	-	-	-	-	-	-
RC-88-0763	27.9	5.6±1.0	8.5±1.6	19.8±1.7	19.0±1.5	0.42±.06	0.32±.05	0.29±.02	1.70±.30	0.38±.05	0.46±.06	0.60±.60
CW-5 Chambers Cluster (351038109270802)												
RC-88-0764	4.1	9.9±1.3	16.3±2.5	24.8±1.9	23.6±1.7	-	-	-	-	-	-	-
RC-88-0765	19.2	16.1±1.8	26.1±3.6	29.3±2.2	27.9±2.0	1.06±.08	0.85±.07	1.07±.06	3.30±.30	1.21±.09	1.15±.10	1.80±.50
CW-6 Chambers Cluster (351038109270803)												
RC-88-0766	9.1	8.8±.9	12.8±1.4	19.6±1.3	19.0±1.2	0.79±.08	0.94±.08	0.72±.04	2.50±.20	1.06±.09	0.97±.09	1.00±.40

GROUND-WATER DATA—Continued
Well-Core Sediment Analyses—Continued
Radionuclide Analyses—Continued

Record ID	Depth below surface (meters)	Gross Alpha as ²⁴¹ Am (pCi/g)	Gross Alpha as U-nat. (pCi/g)	Gross Beta as ¹³⁷ Cs (pCi/g)	Gross Beta as ⁹⁰ Sr/ ⁹⁰ Y (pCi/g)	Uranium 238 (pCi/g)	Uranium 234 (pCi/g)	Radium 226 (pCi/g)	Radium 228 (pCi/g)	Thorium 232 (pCi/g)	Thorium 230 (pCi/g)	Lead 210 (pCi/g—)
CW-7 Chambers Cluster (351039109270001)												
RC-88-0767	8.5	8.8±1.2	14.2±2.3	19.8±1.7	18.9±1.5	--	--	--	--	--	--	--
RC-88-0768	11.6	7.6±1.2	10.8±1.9	21.2±2.0	20.6±1.9	--	--	--	--	--	--	--
RC-88-0769	10.8	8.3±1.3	11.6±2.0	22.7±2.2	22.1±2.1	0.63±.07	0.56±.06	0.46±.03	2.40±.50	0.67±.07	0.56±.07	0.10±.60
RC-88-0770	24.5	6.1±1.2	8.2±1.7	15.7±2.1	15.4±2.0	0.43±.06	0.42±.05	0.36±.03	1.80±.30	0.40±.06	0.60±.08	0.30±.40
RC-88-077	29.4	5.7±1.0	9.1±1.7	8.1±1.1	7.7±1.1	--	--	--	--	--	--	--
CW-8 Chambers Cluster (351039109270002)												
RC-88-0771	21.2	11.3±1.5	16.1±2.4	24.6±2.3	23.9±2.1	--	--	--	--	--	--	--
CW-9 Chambers Cluster (351039109270003)												
RC-88-0773	16.5	6.4±1.1	9.1±1.7	18.5±1.9	17.9±1.8	--	--	--	--	--	--	--
RC-88-0774	13.7	3.7±.9	5.6±1.3	16.5±1.6	15.9±1.5	0.39±.06	0.47±.06	0.40±.03	1.30±.30	0.40±.05	0.37±.06	0.70±.50
CDP-1 Chambers Drive Point (351044109270501)												
RC-88-0636	.91	4.1±.6	6.9±1.1	14.8±1.0	14.1±1.0	0.59±.05	0.43±.04	0.42±.03	0.40±.20	--	0.35±.04	0.50±.40
RC-88-0637	.015	5.4±1.0	9.2±1.8	20.6±1.7	19.7±1.6	0.64±.05	0.57±.05	0.48±.03	0.97±.13	--	0.54±.05	1.40±.40
CP-1 Cedar Point Cluster (351411109170701)												
99000565	6.1	--	--	--	--	1.4±.2	1.5±.2	--	--	1.7±.6	1.1±.5	--
99000568	21.6	--	--	--	--	1.0±.4	0.8±.3	--	--	2.0±.7	1.4±.6	--
99000571	40.8	--	--	--	--	1.2±.4	0.9±.3	--	--	1.8±.5	1.2±.5	--
CP-3 Cedar Points Cluster (351411109170703)												
98900286	7.8	--	--	--	--	1.1±.5	0.7±.3	--	--	1.6±.6	1.2±.5	--

GROUND-WATER DATA—Continued

Well-Core Sediment Analyses—Continued

Radionuclide Analyses—Continued

Record ID	Depth below surface (meters)	Gross Alpha as ²⁴¹ Am (pCi/g)	Gross Alpha as U-nat. (pCi/g)	Gross Beta as ¹³⁷ Cs (pCi/g)	Gross Beta as ⁹⁰ Sr/ ⁹⁰ Y (pCi/g)	Uranium 238 (pCi/g)	Uranium 234 (pCi/g)	Radium 226 (pCi/g)	Radium 228 (pCi/g)	Thorium 232 (pCi/g)	Thorium 230 (pCi/g)	Lead 210 (pCi/g)—
98900289	5.7	--	--	--	--	1.1+2	1.1+2	--	--	9.2+3.3	5.0+2.3	--
CP-4 Cedar Points Cluster (351415109170201)												
98900347	7.8	--	--	--	--	1.5+2	1.3+2	--	--	0.9+5	1.2+5	--
CP-5 Cedar Points Cluster (35110109170201)												
98900287	7.9	--	--	--	--	1.9+6	1.5+5	--	--	1.9+6	1.5+6	--
99000573	7.8	--	--	--	--	1.2+3	1.25+35	--	--	1.2+5	0.9+4	--
CP-6 Cedar Points Cluster (351407109165801)												
99000438	.84	--	--	--	--	2.5+8	4.0+1.0	--	--	1.3+8	0.6+5	--
CPDP-1 Cedar Points Drive Point (351419109165901)												
99000569	2.3	--	--	--	--	1.5+6	1.3+5	--	--	2.0+6	1.5+5	--
99000563	6.1	--	--	--	--	4.4+5	7.4+8	--	--	1.4+6	1.7+6	--
LPT-1 Lupton Cluster (351928109042601)												
99000564	4.0	--	--	--	--	1.5+2	1.5+2	--	--	1.4+6	1.6+6	--
LPT-4 Lupton Cluster (351930109042701)												
99000567	7.7	--	--	--	--	1.5+2	1.5+2	--	--	2.3+7	1.5+6	--
MAN-1 Mannelito Cluster (352742108563301)												

GROUND-WATER DATA—Continued

Well-Core Sediment Analyses—Continued

Radionuclide Analyses—Continued

Record ID	Depth below surface (meters)	Gross Alpha as ^{241}Am (pCi/g)	Gross Alpha as U-nat. (pCi/g)	Gross Beta as ^{137}Cs (pCi/g)	Gross Beta as $^{90}\text{Sr}/^{90}\text{Y}$ (pCi/g)	Uranium 238 (pCi/g)	Uranium 234 (pCi/g)	Radium 226 (pCi/g)	Radium 228 (pCi/g)	Thorium 232 (pCi/g)	Thorium 230 (pCi/g)	Lead 210 (pCi/g)—
99000566	9.7	--	--	--	--	1.5+2	1.5+2	--	--	1.6+8	1.1+6	--
MAN-3 Mammletio Cuzar (352743108563401)												
99000483	.61	--	--	--	--	2.0+3	2.4+3	--	--	1.5+5	1.3+5	--
GALDP-1 Gallup Drive Point (353215108400401)												
9000485	--	--	--	--	--	1.7+2	1.7+2	--	--	1.6+6	1.0+5	--
RPDP-1 Rio Puerco Drive Point (354020107043301)												
99000570	.61	--	--	--	--	1.9+5	1.7+4	--	--	1.7+7	1.7+7	--
Route 566 Bridge Drive Point (353156108362301)												
99000513	.61	--	--	--	--	2.3+6	2.9+7	--	--	1.1+6	0.9+5	--
Chico Arroyo sieved bottom material (353335107112701)												
98900106	.61	--	--	--	--	1.9+3	1.7+2	--	--	0.9+4	1.7+6	--
Puerco River Drive Point upstream from Querino Road near Sanders (351620109152101)												
99000408	.61	--	--	--	--	1.8+7	2.0+8	--	--	1.2+5	1.9+7	--
NFDP-1 North Fork of Puerco River Drive Point (353726108303701)												
99000781	--	--	--	--	--	1.2+7	2.3+1.1	--	--	1.56+7	1.6+8	--
Pipeline Arroyo sieved bottom material (353943108292801)												

CHAMBERS WELL CLUSTER

[Color determined with Munsell Color Charts; Acid reaction determined with 10 percent hydrochloric acid; code definition: VS = very strong, S = strong, M = moderate, W = weak; 'Grams of Sample' and 'Percent of Sample' refer to the amount and percentage of sample passing through 1.0mm, 0.5mm, 0.25mm, and 0.061mm sieves]

DEPTH (METERS)	SAMPLE WEIGHT (GRAMS)	ACID REAC- TION	MUNSELL COLOR		GRAMS OF SAMPLE						PERCENT OF SAMPLE					
					>1.0mm			0.125mm- 0.061mm			>1.0mm			0.125mm- 0.061mm		
			DRY	WET	1.0mm- 0.5mm	0.5mm- 0.25mm	0.25mm- 0.125mm	0.125mm- 0.061mm	1.0mm- 0.5mm	0.5mm- 0.25mm	0.25mm- 0.125mm	0.125mm- 0.061mm	1.0mm- 0.5mm	0.5mm- 0.25mm	0.25mm- 0.125mm	0.125mm- 0.061mm
351043109270302—CU-2																
15.00	100.0	S	10R5/4	10R4/3	.00	.00	1.70	4.50	1.80	92.00	.00	.00	1.70	4.50	1.80	92.00
20.00	120.0	S	2.5YR6/4	2.5YR5/4	.00	.40	.70	11.10	4.60	103.20	.00	.30	.60	9.30	3.80	86.00
29.00	121.0	S	5YR6/4	5YR5/4	.40	25.40	53.20	12.40	1.90	27.70	.30	21.00	44.00	10.20	1.60	22.90
30.50	151.0	S	5YR6/4	5YR4/4	.80	5.10	26.30	25.60	7.70	85.50	.50	3.40	17.40	17.00	5.10	56.60
54.50	121.0	W	5YR6/3	5YR5/4	.60	4.10	53.60	14.40	2.70	45.60	.50	3.40	44.30	11.90	2.20	37.70
82.00	59.6	S	5YR5/2	5YR3/2	.00	.00	.20	.10	.00	59.30	.00	.00	.30	.20	.00	99.50
351043109270303—CU-3																
21.00	100.0	S	2.5YR5/4	2.5YR4/4	.30	3.00	17.30	26.90	16.70	35.80	.30	3.00	17.30	26.90	16.70	35.80
38.00	124.0	S	2.5YR5/4	2.5YR4/4	.00	.40	6.10	2.60	5.00	109.90	.00	.30	4.90	2.10	4.00	88.70
351038109270801—CU-4																
15.00	64.3	S	2.5YR5/4	2.5YR4/4	.80	1.00	2.90	1.20	7.20	51.20	1.20	1.60	4.50	1.90	11.20	79.60
101.00	151.0	W	10R6/2	10R4/2	3.80	.50	5.20	50.60	20.70	70.20	2.50	.30	3.50	33.50	13.70	46.50
68.00	131.0	S	5YR6/3	5YR5/4	4.50	2.40	9.40	12.30	8.30	94.10	3.40	1.80	7.20	9.40	6.30	71.90
92.00	131.0	W	5YR6/2	5YR4/2	.90	8.90	47.20	42.00	8.20	23.80	.70	6.80	36.00	32.10	6.30	18.10

GROUND-WATER DATA—Continued

WELL-CORE SEDIMENT ANALYSES—Continued

GRAIN-SIZE ANALYSIS—Continued

CHAMBERS WELL CLUSTER—Continued

DEPTH (METERS)	SAMPLE WEIGHT (GRAMS)	ACID REAC- TION	MUNSELL COLOR		GRAMS OF SAMPLE							PERCENT OF SAMPLE						
			DRY	WET	>1.0mm	1.0mm- 0.5mm	0.5mm- 0.25mm	0.25mm- 0.125mm	0.125mm- 0.061mm	<0.061mm	>1.0mm	1.0mm- 0.5mm	0.5mm- 0.25mm	0.25mm- 0.125mm	0.125mm- 0.061mm	<0.061mm		
351038109270802—CU-5																		
13.00	78.0	S	2.5YR5/4	2.5YR4/4	1.40	6.10	12.30	16.10	4.70	37.40	1.80	7.80	15.80	20.60	6.00	48.00		
63.00	82.7	S	5YR5/2	5YR4/1	.00	3.80	5.60	7.70	3.60	62.00	.00	4.60	6.80	9.30	4.40	74.90		
351038109270803—CU-6																		
30.00	37.1	VS	5YR5/4	5YR4/4	1.50	2.00	3.60	6.20	3.70	20.10	4.00	5.40	9.70	16.70	10.00	54.20		
351039109270001—CU-7																		
28.00	62.7	S	2.5YR5/4	2.5YR3/4	.00	.30	3.40	8.30	6.20	44.50	.00	.50	5.40	13.20	9.90	71.00		
38.70	100.0	W	2.5YR5/6	2.5YR4/6	.00	1.00	24.70	50.70	8.90	14.70	.00	1.00	24.70	50.70	8.90	14.70		
82.00	175.0	S	5YR5/2	5YR4/2	3.70	31.30	77.90	22.00	6.20	33.90	2.10	17.90	44.50	12.60	3.50	19.40		
97.00	79.7	S	5YR7/2	5YR5/2	4.20	1.00	6.30	22.50	5.10	40.60	5.30	1.30	7.90	28.20	6.40	50.90		
351039109270002—CU-8																		
69.50	100.0	M	5YR5/3	5YR4/3	.00	1.10	6.70	18.40	3.00	70.80	.00	1.10	6.70	18.40	3.00	70.80		
351039109270003—CU-9																		
54.00	96.0	S	5YR5/4	5YR3/4	.50	2.60	10.10	5.60	6.80	70.40	.50	2.70	10.50	5.80	7.10	73.40		
45.00	155.0	W	7.5YR6/4	7.5YR6/4	.30	22.60	70.40	36.40	19.70	5.6	.20	14.60	45.40	23.50	12.70	3.60		

SURFACE-WATER DATA

DAILY MEAN DISCHARGE

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM

LOCATION.--Lat 35°36'04", Long 108°35'12", in SE¼NW¼ Sec. 24, T.16 N., R. 17 W., McKinley County, Hydrologic Unit 15020006, on right bank 61 m downstream from 32m CMC pipe bridge on dirt road 1.6 m northwest of State Highway 566, 4.3 km upstream from Hard Ground Canyon, 11.9 km upstream from South Fork, and 15.3 km northeast of Gallup.

DRAINAGE AREA.--531 km².

PERIOD OF RECORD.--May 1989 to September 1991.

OTHER DATA COLLECTION AT THIS SITE.--October 1977 to September 1982.

DISCHARGE, CUBIC METERS PER SECOND, MAY 1989 TO SEPTEMBER 1989 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.000	.000	.000	.708	.000
2	---	---	---	---	---	---	---	.000	.000	.000	.821	.000
3	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
4	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
5	---	---	---	---	---	---	---	.000	.000	.000	.000	3.11
6	---	---	---	---	---	---	---	.000	.000	.000	.000	.269
7	---	---	---	---	---	---	---	.000	.040	.000	.000	.000
8	---	---	---	---	---	---	---	.000	.088	.000	.000	.000
9	---	---	---	---	---	---	---	.000	.096	.000	.000	.000
10	---	---	---	---	---	---	---	.000	.122	.000	.000	.000
11	---	---	---	---	---	---	---	.000	.119	.000	.000	.000
12	---	---	---	---	---	---	---	.000	.116	.000	.000	.000
13	---	---	---	---	---	---	---	.000	.108	.000	.000	.000
14	---	---	---	---	---	---	---	.000	.076	.000	.000	.000
15	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
16	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
17	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
18	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
19	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
20	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
21	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
22	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
23	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
24	---	---	---	---	---	---	---	.000	.000	.821	.000	.000
25	---	---	---	---	---	---	---	.000	.000	.181	.000	.000
26	---	---	---	---	---	---	---	.000	.000	2.61	.000	.000
27	---	---	---	---	---	---	---	.000	.000	1.16	.000	.000
28	---	---	---	---	---	---	---	.000	.000	2.72	.000	.000
29	---	---	---	---	---	---	---	.000	.000	.159	.000	.000
30	---	---	---	---	---	---	---	.000	.000	.000	.000	.000
31	---	---	---	---	---	---	---	.000	---	.000	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.133
5	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.47	.311	.000
6	.000	.000	.000	.000	.000	.000	.000	.000	.000	.850	.125	.000
7	.000	.000	.000	.000	.000	.000	.000	.000	.000	.906	.000	.000
8	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.27	.000	.000
9	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.21	.000	.000
10	.000	.000	.000	.000	.000	.000	.000	.000	.000	.623	.000	.000
11	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
12	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.10	.000	.000
13	.000	.000	.000	.000	.000	.000	.000	.000	.000	.136	.000	.000
14	.000	.000	.000	.000	.000	.000	.000	.000	.000	.224	.566	.000
15	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.33	.000
16	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.13	.000
17	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000	.000	.000	.034	.000	.000
19	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
20	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.187
21	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.159
22	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.130
23	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.133
24	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.000	.000	.000	.000	---	.000	.000	.000	.000	.000	.000	.000
30	.000	.000	.000	.000	---	.000	.000	.000	.000	.000	.000	.000
31	.000	---	.000	.000	---	.000	---	.000	---	.000	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.02	.000	.000	.000	.000	.000	.000	.000	.000	.000	.510	.000
2	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.38	.000
3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.142	.000
4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.085	.000
5	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
6	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.83	.000
7	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.906	.000
8	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.142	.000
9	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.085	.000
10	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.184	.000
11	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.263	.000
12	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.028	.000
13	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
14	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
15	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
16	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
17	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
18	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
19	.510	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
20	5.49	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
21	.283	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
22	.142	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
23	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
24	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
25	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
26	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
27	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
28	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
29	.000	.000	.000	.000	---	.000	.000	.000	.000	.000	.000	.000
30	.000	.000	.000	.000	---	.000	.000	.000	.000	.000	.000	.000
31	.000	---	.000	.000	---	.000	---	.000	---	.000	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM

LOCATION.--Lat 35°27'42', Long 108°56'42" in SE&NW Sec. 10, T.14 N., R.20 W., McKinley County, Hydrologic Unit 15020006, on downstream side of Atchison, Topeka, and Santa Fe Railroad bridge, 60 m upstream from Interstate Highway 40, 1.9 km upstream from Hunting Canyon and 20.3 km west of Gallup.

DRAINAGE AREA.--1,593 km²

PERIOD OF RECORD.--MAY 1989 TO SEPTEMBER 1991.

DISCHARGE, CUBIC METERS PER SECOND, MAY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.045	.045	1.25	.045
2	---	---	---	---	---	---	---	.045	.045	.045	2.94	.045
3	---	---	---	---	---	---	---	.045	.045	.045	.680	.045
4	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
5	---	---	---	---	---	---	---	.045	.045	.045	.045	.566
6	---	---	---	---	---	---	---	.045	.045	.045	.045	14.2
7	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
8	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
9	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
10	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
11	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
12	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
13	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
14	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
15	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
16	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
17	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
18	---	---	---	---	---	---	---	.045	.045	.045	2.32	.045
19	---	---	---	---	---	---	---	.045	.045	.045	4.22	.368
20	---	---	---	---	---	---	---	.045	.045	.045	.144	.045
21	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
22	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
23	---	---	---	---	---	---	---	.045	.045	.045	.045	.045
24	---	---	---	---	---	---	---	.045	.045	.566	.045	.045
25	---	---	---	---	---	---	---	.045	.045	.425	.045	.045
26	---	---	---	---	---	---	---	.045	.045	2.12	.045	.045
27	---	---	---	---	---	---	---	.045	.045	5.97	.045	.045
28	---	---	---	---	---	---	---	.045	.045	2.52	.045	.045
29	---	---	---	---	---	---	---	.045	.045	5.35	.045	.045
30	---	---	---	---	---	---	---	.045	.045	1.25	.045	.045
31	---	---	---	---	---	---	---	.045	---	5.44	.045	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
2	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.02
3	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
4	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
5	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.651
6	.045	.045	.045	.045	.045	.045	.045	.045	.045	.651	.045	.045
7	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.36	2.18	.045
8	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.78	.045	.045
9	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
10	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.08	.045	.045
11	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
12	.045	.045	.045	.045	.045	.045	.045	.045	.045	.906	.045	.045
13	.045	.045	.045	.045	.045	.045	.045	.045	.045	17.8	.045	.045
14	.045	.045	.045	.045	.045	.045	.045	.045	.045	2.18	6.88	.045
15	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	4.84	.045
16	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	6.91	.453
17	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.30	2.97	.045
18	.045	.045	.045	.045	.045	.045	.045	.045	.045	.283	.045	.045
19	.045	.045	.045	.045	.045	.045	.045	.045	.045	.275	.045	.045
20	.045	.045	.045	.045	.045	.045	.045	.045	.045	.566	2.49	.510
21	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	2.41	.425
22	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.368
23	.045	.045	.045	.045	.045	.045	.045	.045	.045	.963	.045	4.67
24	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.47	.045	2.27
25	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.991
26	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
27	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
28	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
29	.045	.045	.045	.045	---	.045	.045	.045	.045	.045	.045	.045
30	.045	.045	.045	.045	---	.045	.045	.045	.045	.045	.045	.045
31	.566	---	.045	.045	---	.045	---	.045	---	.045	.045	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.167	.045	.045	.045	.045	.045	.045	.045	.045	.045	2.04	.045
2	.821	.045	.045	.045	.045	.045	.045	.045	.045	.045	5.38	.045
3	.510	.045	.045	.045	.045	.045	.045	.045	.045	.045	.793	.045
4	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.991	.934
5	.045	.045	.045	.045	.045	.045	1.22	.045	.045	.045	.133	.311
6	.045	.045	.045	.045	.045	.045	2.61	.045	.045	.045	3.00	.045
7	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	3.45	.045
8	.045	.045	.045	.045	.045	.045	1.67	.045	.045	.045	.045	.045
9	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
10	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
11	.045	.045	.045	.045	.045	.045	.045	.045	1.81	.045	.566	.045
12	.263	.045	.045	.045	.045	.045	.045	.045	1.67	.045	.045	.045
13	.045	.045	.045	.045	.045	.045	.045	.045	1.27	.045	.045	.045
14	.045	.045	.045	.045	.045	.045	.045	.045	1.25	.045	.045	.045
15	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
16	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
17	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
18	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
19	1.53	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.079
20	20.0	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.178
21	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
22	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
23	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
24	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
25	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045	.045
26	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.33	7.31	.045
27	.045	.045	.045	.045	.045	.045	.045	.045	.045	1.76	4.11	.045
28	.045	.045	.045	.045	.045	1.19	.045	.045	.045	.045	.651	.045
29	.045	.045	.045	.045	---	.906	.045	.045	.045	1.05	.207	.045
30	.045	.045	.045	.045	---	.045	.045	.045	.045	.045	.045	.045
31	.045	---	.045	.045	---	.045	---	.045	---	.045	.045	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ

LOCATION.--Lat 35°20'00", Long 109°12'13", Apache County, Hydrologic Unit 15020006, in Navajo Indian Reservation, on right bank 5.6 km north of Houck, and 9.3 km downstream from West Fork Black Creek.

DRAINAGE AREA.--1,627 km².

PERIOD OF RECORD.--March 1989 to September 1991.

OTHER DATA COLLECTION AT THIS SITE.--August 1986 to March 1989, station operated by the Navajo Nation (records unpublished).

DISCHARGE, CUBIC METERS PER SECOND, MARCH 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.193	.000	.000	.000	1.67	.000
2	---	---	---	---	---	---	.156	.000	.000	.000	.368	.000
3	---	---	---	---	---	---	.136	.000	.000	.000	.099	.000
4	---	---	---	---	---	---	.113	.000	.000	.000	.034	.000
5	---	---	---	---	---	---	.082	.000	.000	.000	.005	.510
6	---	---	---	---	---	---	.074	.000	.000	.000	.000	1.16
7	---	---	---	---	---	---	.062	.000	.000	.000	.000	.082
8	---	---	---	---	---	---	.028	.000	.000	.000	.963	.020
9	---	---	---	---	---	---	.014	.000	.000	.000	.218	.002
10	---	---	---	---	---	---	.000	.000	.000	.000	.232	.000
11	---	---	---	---	---	---	.000	.000	.000	.000	.071	.000
12	---	---	---	---	---	---	.000	.000	.000	.000	.016	.000
13	---	---	---	---	---	---	.000	.000	.000	.000	.000	.000
14	---	---	---	---	---	---	.000	.000	.000	.000	.000	.000
15	---	---	---	---	---	---	.000	.000	.000	.000	.000	.000
16	---	---	---	---	---	---	.000	.000	.000	.000	.000	.000
17	---	---	---	---	---	---	.000	.000	.000	.000	.000	.000
18	---	---	---	---	---	---	.000	.000	.000	.000	.065	.000
19	---	---	---	---	---	---	.000	.000	.000	.000	4.67	.000
20	---	---	---	---	---	---	.000	.000	.000	.000	.263	.000
21	---	---	---	---	---	---	.000	.000	.000	.000	.057	.000
22	---	---	---	---	---	---	.000	.000	.000	.000	.022	.000
23	---	---	---	---	---	.311	.000	.000	.000	.000	.000	.000
24	---	---	---	---	---	.283	.000	.000	.000	.000	.000	.000
25	---	---	---	---	---	.283	.000	.000	.000	.000	.000	.000
26	---	---	---	---	---	.425	.000	.000	.000	.396	.000	.000
27	---	---	---	---	---	.708	.000	.000	.000	.065	.000	.000
28	---	---	---	---	---	.425	.000	.000	.000	.040	.000	.000
29	---	---	---	---	---	.425	.000	.000	.000	1.87	.000	.000
30	---	---	---	---	---	.425	.000	.000	.000	.481	.000	.000
31	---	---	---	---	---	.241	---	.000	---	1.27	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.000	.000	.000	.000	.368	.000	.000	.000	.000	.091	.000
2	.000	.000	.000	.000	.000	.249	.001	.000	.000	.000	.144	.000
3	.000	.000	.000	.000	.000	.193	.007	.000	.000	.000	.068	.000
4	.000	.000	.000	.000	.000	.125	.002	.000	.000	.000	.014	.000
5	.000	.000	.000	.000	.000	.125	.006	.000	.000	.000	.000	.013
6	.000	.000	.000	.000	.000	.068	.011	.000	.000	.000	.000	1.39
7	.000	.000	.000	.000	.000	.051	.012	.000	.000	.040	.000	.934
8	.000	.000	.000	.000	.000	.048	.011	.000	.000	.283	.000	.283
9	.000	.000	.000	.000	.000	.034	.007	.000	.000	.224	.000	3.37
10	.000	.000	.000	.000	.000	.034	.000	.000	.000	.057	.000	.212
11	.000	.000	.000	.000	.000	.065	.000	.000	.000	.008	.000	.040
12	.000	.000	.000	.000	.017	.057	.000	.000	.000	.878	.000	.003
13	.000	.000	.000	.000	.085	.051	.000	.000	.000	.224	.000	.000
14	.000	.000	.000	.000	.122	.071	.000	.000	.000	1.13	3.31	.000
15	.000	.000	.000	.000	.099	.059	.000	.000	.000	.906	5.55	.000
16	.000	.000	.000	.005	.108	.048	.000	.000	.000	.176	.623	.000
17	.000	.000	.000	.013	.108	.037	.000	.000	.000	1.30	.283	.000
18	.000	.000	.000	.024	.093	.034	.000	.000	.000	2.38	.071	.019
19	.000	.000	.000	.054	.082	.025	.000	.000	.000	.453	.028	.368
20	.000	.000	.000	.116	.068	.017	.000	.000	.000	.263	.001	.368
21	.000	.000	.000	.054	.059	.012	.000	.000	.000	.184	.481	.963
22	.000	.000	.000	.016	.042	.004	.000	.000	.000	.091	.178	.161
23	.000	.000	.000	.004	.051	.000	.000	.000	.000	.008	.054	.396
24	.000	.000	.000	.000	.130	.000	.000	.000	.000	.000	.018	.269
25	.000	.000	.000	.000	.224	.000	.000	.000	.000	.000	.000	.071
26	.000	.000	.000	.002	.368	.000	.000	.000	.000	.000	.000	.028
27	.000	.000	.000	.002	.269	.000	.000	.000	.000	.000	.000	.007
28	.000	.000	.000	.002	.425	.000	.000	.000	.000	.000	.000	.013
29	.000	.000	.000	.000	---	.000	.000	.000	.000	.000	.000	.001
30	.000	.000	.000	.000	---	.000	.000	.000	.000	.000	.000	.000
31	.000	---	.000	.000	---	.000	---	.000	---	.000	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.000	.003	.000	.000	.368	1.36	.014	.000	.000	.079	.000
2	.000	.000	.014	.000	.000	1.13	.878	.012	.000	.000	.110	.000
3	.000	.057	.015	.000	.000	1.22	.566	.010	.000	.000	.018	.000
4	.000	.065	.000	.142	.000	.765	.368	.008	.000	.000	.079	.000
5	.000	.021	.000	1.42	.000	1.25	.244	.008	.000	.000	.000	.340
6	.000	.011	.000	1.13	.019	4.05	.178	.007	.000	.000	.048	1.70
7	.000	.020	.001	.708	.178	2.61	.119	.005	.000	.000	7.11	.311
8	.000	.022	.000	.566	.425	.680	.074	.002	.000	.000	.566	.059
9	.000	.051	.000	.311	.246	.396	.048	.000	.000	.000	.178	.007
10	.000	.027	.000	.142	.283	.283	.034	.000	.000	.000	.074	.000
11	.000	.017	.000	.085	.283	.198	.396	.000	.000	.000	.045	.000
12	.000	.013	.000	.057	.283	.116	.736	.000	.002	.003	.018	.000
13	.000	.010	.093	.028	.283	.091	.425	.000	.031	.000	.006	.000
14	.000	.008	.082	.014	.238	.091	.207	.000	.009	.000	.000	.000
15	.000	.007	.048	.000	.311	.110	.096	.000	.037	.000	.481	.000
16	.000	.006	.076	.000	.311	.122	.187	.000	.026	.000	1.59	.000
17	.000	.005	.057	.000	.595	.110	.538	.000	.000	.000	.150	.000
18	.000	.003	.028	.000	.396	.096	.538	.000	.000	.000	.040	.000
19	.042	.005	.014	.000	.187	.079	.623	.000	.000	.000	.008	.000
20	.680	.003	.000	.000	.130	.062	.510	.000	.000	.000	.000	.000
21	.110	.011	.000	.000	.079	.085	.311	.000	.000	.000	.000	.000
22	.040	.013	.000	.000	.051	.110	.283	.000	.000	.000	.000	.000
23	.014	.008	.000	.000	.034	.108	.227	.000	.000	.000	.000	.000
24	.005	.005	.000	.000	.031	.076	.198	.000	.000	.130	.000	.000
25	.000	.001	.000	.000	.034	.059	.144	.000	.000	2.18	.000	.000
26	.000	.008	.000	.000	.031	.054	.130	.000	.000	.991	.000	.000
27	.000	.027	.000	.000	.024	.062	.079	.000	.000	.425	.000	.000
28	.000	.024	.000	.000	.040	.130	.037	.000	.000	.074	.000	.000
29	.000	.034	.000	.000	---	.510	.025	.000	.000	.012	.000	.000
30	.000	.059	.000	.000	---	.850	.017	.000	.000	.000	.000	.000
31	.000	---	.000	.000	---	1.61	---	.000	---	.000	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ

LOCATION.--Lat 35°10'56", Long 109°26'47", in NW¼NE¼ Sec. 35, T.21 N., R.27 E., Apache County, Hydrologic Unit 15020007, on right bank 0.8 km upstream from Atchison, Topeka, and Santa Fe Railway Co. bridge, and 1.6 km southwest of Chambers.

DRAINAGE AREA.--5,584 km², of which 130 km² is noncontributing.

PERIOD OF RECORD.--October 1988 to September 1991

OTHER DATA COLLECTION AT THIS SITE.--Records were published in Water Resources Data for Arizona for: water years 1971-72 (annual maximums only), January 1973 to current year (daily mean discharge above 14.16 m³/s only).

REMARKS.-- Only daily mean discharges above 0.556 m³/s are published.

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	12.0	---
2	---	---	---	---	.680	---	---	---	---	---	.651	---
3	---	---	---	---	1.02	---	---	---	---	---	1.84	---
4	---	---	---	---	1.42	---	---	---	---	---	---	---
5	---	---	---	---	1.19	---	---	---	---	---	---	---
6	---	---	---	---	.566	.566	---	---	---	---	---	2.58
7	---	---	---	---	.680	---	---	---	---	---	---	1.27
8	---	---	---	---	.623	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	1.50	---	---	---	---	---	---	---
13	---	---	---	---	1.87	---	---	---	---	---	---	---
14	---	---	---	---	.991	---	---	---	---	---	---	---
15	---	---	---	---	.821	---	---	---	---	---	---	---
16	---	---	---	---	.878	---	---	---	---	---	---	---
17	---	---	---	---	.736	---	---	---	---	---	---	---
18	---	---	---	---	.963	---	---	---	---	---	---	---
19	---	---	---	---	1.10	---	---	---	---	---	7.56	---
20	---	---	---	---	1.13	.566	---	---	---	---	2.69	---
21	---	---	---	---	.595	---	---	---	---	---	---	---
22	---	---	---	---	.651	---	---	---	---	---	---	---
23	---	---	---	---	.708	---	---	---	---	---	---	---
24	---	---	---	---	.595	---	---	---	---	---	---	---
25	---	---	---	---	.566	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	.850	---	---	---	---	.934	---	---
28	---	---	---	---	.595	---	---	---	---	2.07	---	---
29	---	---	---	---	---	---	---	---	---	5.58	---	---
30	---	---	---	---	---	---	---	---	---	1.73	---	---
31	---	---	---	---	---	---	---	---	---	2.38	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	.708
4	---	---	---	---	---	---	---	---	---	---	---	.566
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	10.8
7	---	---	---	---	---	---	---	---	---	---	---	1.53
8	---	---	---	---	---	---	---	---	---	1.44	.793	.963
9	---	---	---	---	---	---	---	---	---	2.75	---	1.47
10	---	---	---	---	---	---	---	---	---	1.13	---	.906
11	---	---	---	---	---	---	---	---	---	3.06	---	---
12	---	---	---	---	.651	---	---	---	---	1.30	---	---
13	---	---	---	---	---	---	---	---	---	2.15	---	---
14	---	---	---	---	.595	---	---	---	---	28.3	1.73	---
15	---	---	---	---	---	---	---	---	---	3.68	21.4	---
16	---	---	---	---	---	---	---	---	---	1.05	9.77	---
17	---	---	---	---	---	---	---	---	---	---	11.4	---
18	---	---	---	---	---	---	---	---	---	2.86	2.44	---
19	---	---	---	---	---	---	---	---	---	.651	---	---
20	---	---	---	---	---	---	---	---	---	.623	---	---
21	---	---	---	---	---	---	---	---	---	.651	3.51	---
22	---	---	---	---	---	---	---	---	---	.651	1.50	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	2.63	---	---
25	---	---	---	---	---	---	---	---	---	1.44	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	.963	---	---	---	1.59	---
2	---	---	---	---	---	7.70	1.05	---	---	---	4.28	---
3	---	---	---	---	---	6.99	1.44	---	---	---	7.28	---
4	---	---	---	1.13	---	2.69	1.25	---	---	---	2.27	---
5	---	---	---	2.83	---	2.49	.765	---	---	---	1.53	1.27
6	---	---	---	6.99	---	5.52	.934	---	---	---	4.42	1.36
7	---	---	---	5.38	---	2.55	.821	---	---	---	18.5	1.02
8	---	---	---	8.50	1.02	1.50	.651	---	---	---	3.23	---
9	---	---	---	2.49	3.48	.736	---	---	---	---	---	---
10	---	---	---	4.87	3.40	---	---	---	---	---	---	---
11	---	---	---	2.07	7.84	---	---	---	---	---	---	---
12	---	---	---	1.61	6.77	---	---	---	9.26	---	---	---
13	---	---	---	4.47	4.56	---	---	---	6.00	---	---	---
14	---	---	.623	1.81	7.67	---	---	---	8.44	---	---	---
15	---	---	---	.623	5.27	---	---	---	3.03	---	---	---
16	---	---	---	.821	5.47	---	---	---	---	---	1.27	---
17	---	---	---	---	6.12	.651	---	---	---	---	.736	---
18	---	---	---	---	6.77	---	---	---	---	---	---	---
19	---	---	---	---	1.16	---	---	---	---	---	---	---
20	22.5	---	---	---	---	---	---	---	---	---	---	---
21	3.57	---	---	---	---	---	---	---	---	---	---	---
22	.850	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	1.53	---	---
27	---	---	---	---	---	---	---	---	---	4.28	15.9	---
28	---	---	---	---	---	.623	---	---	---	.680	1.10	---
29	---	---	---	---	---	2.41	---	---	---	.566	.906	---
30	---	---	---	---	---	2.72	---	---	---	1.50	.566	---
31	---	---	---	---	---	2.01	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM

LOCATION.--Lat 35°06'03", Long 108°45'03", in NE¼ Sec. 17, T.10 N., R.18 W., McKinley County, Hydrologic Unit 15020004, on Zuni Indian Reservation, on left bank downstream from highway bridge on State Highway 36, 1.3 km upstream from flow line of Black Rock Reservoir, 3.7 km northeast of Black Rock, and 9.5 km northeast of Zuni Pueblo.

DRAINAGE AREA.--2,196 km², of which 34 km² is non-contributing.

PERIOD OF RECORD.--October 1988 to September 1991.

OTHER DATA COLLECTION AT THIS SITE.--October 1969 to current year. Prior to October 1974 published as "above Zuni Reservoir."

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.040	.054	.071	.042	.113	.085	.042	.006	.000	.000	.017	.000
2	.040	.051	.079	.045	.227	.082	.042	.006	.000	.000	.040	.000
3	.040	.054	.079	.051	.396	.085	.042	.009	.000	.000	.020	.000
4	.042	.057	.076	.076	.232	.088	.040	.010	.000	.000	.013	.000
5	.042	.057	.082	.116	.173	.088	.037	.007	.000	.000	.007	.000
6	.042	.057	.079	.122	.122	.088	.037	.004	.000	.000	.002	.000
7	.040	.054	.076	.105	.125	.085	.037	.003	.000	.000	.000	.000
8	.042	.051	.068	.076	.116	.082	.037	.001	.000	.000	.000	.000
9	.042	.054	.065	.051	.139	.076	.034	.000	.000	.000	.000	.000
10	.040	.054	.068	.051	.187	.071	.034	.002	.000	.000	.000	.000
11	.045	.057	.071	.054	.198	.074	.037	.005	.000	.000	.000	.000
12	.045	.057	.065	.054	.164	.074	.034	.002	.000	.000	.000	.000
13	.042	.062	.065	.054	.136	.071	.031	.000	.000	.000	.000	.000
14	.040	.059	.068	.054	.119	.068	.031	.001	.000	.000	.000	.000
15	.045	.062	.074	.057	.113	.068	.031	.007	.000	.000	.000	.000
16	.045	.068	.068	.057	.113	.068	.028	.008	.000	.000	.000	.000
17	.042	.068	.076	.065	.119	.068	.028	.018	.000	.000	.000	.000
18	.042	.076	.076	.071	.116	.062	.027	.022	.000	.000	.000	.000
19	.042	.071	.082	.074	.110	.062	.027	.020	.000	.000	.004	.000
20	.040	.071	.074	.088	.110	.062	.028	.014	.000	.000	.018	.000
21	.040	.065	.076	.105	.096	.062	.025	.010	.000	.000	.013	.000
22	.042	.059	.079	.099	.096	.062	.019	.005	.000	.000	.009	.000
23	.045	.059	.079	.113	.096	.059	.015	.001	.000	.000	.040	.000
24	.048	.074	.074	.127	.093	.051	.014	.000	.000	.000	.019	.000
25	.045	.082	.079	.127	.091	.048	.012	.000	.000	.000	.005	.000
26	.045	.074	.082	.125	.091	.048	.014	.000	.000	2.97	.000	.000
27	.048	.071	.076	.130	.091	.048	.010	.000	.000	.210	.000	.000
28	.048	.062	.076	.105	.091	.048	.008	.000	.000	.099	.000	.000
29	.048	.062	.054	.105	---	.048	.007	.000	.000	.082	.000	.000
30	.051	.065	.048	.102	---	.045	.008	.000	.000	.023	.000	.000
31	.054	---	.045	.099	---	.042	---	.000	---	.017	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.003	.002	.008	.031	.059	.040	.000	.000	.000	.000	.000
2	.000	.004	.003	.012	.034	.054	.040	.000	.000	.000	.000	.000
3	.000	.003	.006	.013	.028	.048	.040	.027	.000	.000	.000	.000
4	.000	.003	.006	.011	.028	.048	.034	.031	.000	.000	.000	.000
5	.000	.004	.006	.010	.031	.048	.034	.019	.000	.000	.000	.000
6	.016	.005	.007	.009	.034	.048	.034	.012	.000	.000	.000	.074
7	.018	.005	.007	.010	.042	.054	.034	.007	.000	.000	.000	.027
8	.009	.003	.007	.017	.042	.051	.037	.003	.000	.000	.000	.017
9	.002	.003	.006	.019	.045	.042	.037	.000	.000	.000	.000	.011
10	.000	.004	.006	.021	.045	.048	.034	.000	.000	.000	.000	.000
11	.000	.005	.006	.024	.048	.085	.031	.000	.000	.000	.000	.000
12	.000	.004	.003	.031	.051	.071	.024	.000	.000	.000	.000	.000
13	.000	.004	.000	.040	.040	.054	.019	.000	.000	.000	.000	.000
14	.000	.005	.000	.037	.034	.048	.017	.000	.000	.000	.010	.000
15	.000	.005	.001	.034	.031	.048	.016	.000	.000	.000	.002	.000
16	.000	.004	.003	.028	.028	.042	.015	.000	.000	.000	.000	.000
17	.000	.003	.004	.027	.031	.042	.014	.000	.000	.000	.042	.000
18	.000	.003	.006	.028	.048	.040	.010	.000	.000	.000	.161	.000
19	.000	.004	.007	.031	.042	.037	.007	.000	.000	.000	.042	.000
20	.001	.005	.006	.037	.031	.037	.007	.000	.000	.000	.010	.000
21	.007	.006	.005	.037	.042	.037	.004	.000	.000	.000	.229	.000
22	.011	.005	.005	.034	.051	.034	.004	.000	.000	.000	.048	.000
23	.008	.002	.004	.037	.054	.037	.003	.000	.000	.000	.013	.028
24	.006	.003	.004	.037	.054	.034	.002	.000	.000	.000	.002	.027
25	.005	.007	.004	.034	.054	.034	.004	.000	.000	.000	.000	.008
26	.003	.008	.004	.028	.054	.031	.006	.000	.000	.000	.000	.000
27	.001	.006	.005	.028	.054	.028	.003	.000	.000	.000	.000	.000
28	.001	.004	.005	.028	.057	.031	.000	.000	.000	.000	.000	.001
29	.001	.001	.006	.031	---	.031	.000	.000	.000	.000	.000	.001
30	.003	.000	.007	.034	---	.037	.000	.000	.000	.000	.000	.000
31	.003	---	.007	.034	---	.040	---	.000	---	.000	.000	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.006	.008	.016	.023	.088	.071	.031	.000	.000	.000	.000
2	.001	.010	.010	.019	.025	.127	.065	.027	.000	.000	.000	.000
3	.000	.017	.010	.028	.031	.116	.059	.024	.000	.000	.000	.000
4	.000	.018	.009	.031	.040	.079	.935	.020	.000	.000	.000	.004
5	.000	.017	.008	.042	.045	.068	4.53	.018	.000	.000	.000	1.08
6	.000	.014	.011	.037	.054	.093	3.40	.018	.000	.000	.000	.538
7	.000	.013	.010	.045	.082	.074	2.55	.018	.000	.000	.000	.272
8	.000	.015	.010	.054	.127	.057	1.81	.017	.000	.000	.000	.091
9	.000	.017	.010	.042	.127	.057	1.44	.017	.000	.000	.000	.042
10	.000	.017	.012	.040	.150	.054	1.02	.016	.000	.000	.000	.031
11	.000	.013	.014	.031	.170	.051	.623	.016	.000	.000	.000	.026
12	.000	.008	.016	.031	.150	.048	.481	.014	.000	.000	.000	.025
13	.001	.005	.028	.034	.133	.051	.396	.015	.000	.000	.000	.028
14	.005	.005	.037	.040	.113	.051	.368	.013	.000	.000	.000	.027
15	.006	.005	.028	.042	.091	.054	.340	.007	.000	.000	.000	.027
16	.004	.005	.028	.037	.076	.068	.312	.002	.000	.000	.000	.025
17	.002	.005	.040	.040	.068	.076	.283	.000	.000	.000	.000	.021
18	.000	.005	.040	.034	.062	.088	.161	.000	.000	.000	.000	.020
19	.000	.004	.028	.031	.045	.074	.133	.000	.000	.000	.000	.016
20	.034	.010	.025	.028	.042	.068	.119	.000	.000	.000	.000	.009
21	.062	.014	.020	.031	.042	.079	.093	.000	.000	.000	.000	.009
22	.031	.015	.021	.034	.040	.088	.074	.000	.000	.000	.000	.007
23	.013	.015	.017	.034	.040	.088	.059	.000	.000	.000	.000	.002
24	.010	.014	.016	.028	.040	.085	.048	.000	.000	.000	.000	.000
25	.007	.014	.021	.028	.040	.074	.045	.000	.000	.000	.000	.000
26	.005	.017	.024	.028	.037	.074	.051	.000	.000	.000	.000	.000
27	.005	.016	.018	.028	.037	.091	.040	.000	.000	.000	.000	.000
28	.005	.013	.017	.027	.042	.105	.040	.000	.000	.000	.020	.000
29	.005	.008	.020	.027	---	.133	.037	.000	.000	.000	.037	.000
30	.005	.006	.022	.025	---	.093	.034	.000	.000	.000	.010	.000
31	.006	---	.016	.023	---	.079	---	.000	---	.000	.001	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ

LOCATION.--Lat 34°46'58", Long 110°02'37", in NE¼SW¼ Sec. 17, T.16 N., R.22 E., Navajo County, Hydrologic Unit 15020002, on left bank at abandoned county road bridge in Woodruff, 6.0 km downstream from Silver Creek.

DRAINAGE AREA.--20,907 km², of which 769 km² is noncontributing.

PERIOD OF RECORD.--October 1988 to September 1991.

OTHER DATA COLLECTION AT THIS SITE.--March to May 1905; June to July 1905 (gage heights only); August 1905 to May 1907; July 1907 to April 1908, July to October 1908, December 1908, and December 1915 to September 1916 (gage heights only); October 1916 to August 1917 (monthly discharge only); September 1917 to March 1918, December 1918 to December 1919, April 1929 to December 1933, September 1935 to current year. Published as "near Woodruff" 1916-19, 1929-48.

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.232	.065	.178	.133	.224	.085	.048	.091	.023	.062	4.30	.045
2	.201	.068	.176	.139	.283	.085	.040	.076	.040	.031	3.51	.074
3	.187	.065	.181	.139	.261	.091	.051	.054	.048	.040	1.98	1.16
4	.147	.062	.170	.178	.283	.093	.051	.057	.051	.045	1.19	3.68
5	.212	.045	.173	.187	.181	.093	.028	.054	.045	.068	.453	.934
6	.178	.065	.170	.906	.164	.096	.034	.054	.034	.045	.311	.453
7	.187	.065	.176	.340	.139	.085	.048	.048	.015	.042	.221	.238
8	.252	.065	.204	.283	.125	.082	.048	.054	.037	.042	.085	.133
9	.198	.068	.201	.147	.142	.082	.042	.057	.031	.042	.062	.105
10	.280	.068	.201	.144	.173	.065	.042	.048	.002	.566	.396	.091
11	.311	.065	.190	.139	.595	.068	.045	.037	.042	.275	.283	.082
12	.311	.065	.176	.176	.991	.071	.042	.042	.074	.878	.133	.076
13	.283	.093	.178	.133	.538	.068	.034	.062	.031	.708	.249	.133
14	.396	.113	.176	.113	.340	.059	.340	.065	.045	.232	.176	.150
15	1.25	.099	.159	.102	.246	.059	.566	.085	.023	.079	.116	.139
16	1.05	.093	.113	.108	.201	.057	.210	.071	.042	.011	.102	.204
17	.396	.085	.113	.105	.204	.054	.113	.034	.042	.054	.091	.142
18	.170	.088	.102	.122	.178	.051	.099	.082	.037	.091	11.0	.144
19	.130	.102	.139	.110	.156	.048	.105	.079	.037	.110	16.6	.082
20	.133	.133	.139	.125	.150	.048	.099	.142	.022	.065	8.13	.079
21	.113	.153	.153	.110	.139	.031	.076	.093	.017	.068	2.72	.085
22	.133	.139	.153	.181	.139	.037	.048	.088	.011	.048	1.08	.071
23	.116	.144	.147	.198	.142	.042	.062	.068	.059	13.4	.340	.054
24	.099	.207	.164	.272	.142	.031	.059	.065	.042	2.63	.161	.059
25	.102	.176	.142	.340	.125	.040	.051	.057	.042	1.39	.142	.142
26	.091	.190	.136	.227	.105	.091	.037	.031	.059	8.78	.105	.082
27	.082	.178	.136	.212	.093	.453	.034	.028	.048	4.87	.099	.057
28	.062	.178	.144	.167	.088	.125	.025	.042	.042	2.83	.093	.068
29	.065	.181	.133	.190	---	.048	.059	.040	.045	3.34	.054	.091
30	.071	.190	.119	.167	---	.048	.068	.004	.022	2.55	.082	.091
31	.068	---	.133	.198	---	.048	---	.040	---	1.70	.062	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—CONTINUED

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.125	.088	.091	.085	.091	.082	.059	.048	.040	.001	.396	3.23
2	.116	.096	.088	.096	.093	.079	.057	.034	.045	.241	.113	4.16
3	.108	.093	.082	.096	.082	.085	.048	.051	.054	.028	.071	1.59
4	.093	.108	.082	.079	.085	.082	.025	.051	.045	.031	.161	2.24
5	.105	.108	.093	.088	.091	.079	.051	.048	.020	.031	.178	2.44
6	.181	.091	.127	.085	.088	.071	.057	.018	.037	.031	.105	.623
7	.229	.093	.119	.085	.085	.071	.057	.059	.028	6.99	.082	1.02
8	.176	.099	.085	.088	.085	.074	.057	.076	.015	10.2	.062	.425
9	.108	.096	.093	.085	.085	.068	.051	.082	.016	5.64	.136	.311
10	.088	.096	.088	.088	.082	.059	.054	.085	.031	1.70	.105	.241
11	.096	.096	.079	.085	.085	.065	.037	.085	.040	.850	.076	.181
12	.085	.102	.062	.085	.085	.062	.042	.079	.031	1.02	.065	.102
13	.071	.113	.082	.088	.085	.062	.054	.062	.031	.212	.119	.116
14	.062	.108	.099	.091	.079	.059	.051	.059	.021	.108	12.0	.116
15	.059	.102	.085	.091	.085	.045	.051	.037	.028	1.67	13.8	.178
16	.059	.119	.085	.091	.082	.051	.048	.045	.016	.595	17.7	.147
17	.062	.116	.085	.088	.085	.051	.048	.048	.008	.153	10.6	.144
18	.059	.108	.113	.085	.088	.054	.048	.042	.025	.425	1.42	.178
19	.040	.127	.105	.082	.091	.051	.037	.054	.011	.156	.311	.164
20	.065	.125	.105	.082	.091	.051	.048	.057	.026	.133	.235	4.19
21	.065	.113	.119	.074	.085	.051	.051	.051	.027	.076	.190	30.0
22	.074	.108	.105	.079	.085	.051	.045	.051	.025	.082	.156	13.4
23	.068	.102	.096	.105	.085	.045	.051	.057	.017	.079	.156	1.50
24	.071	.110	.082	.076	.082	.037	.042	.051	.017	.071	.178	1.56
25	.065	.105	.079	.071	.082	.057	.054	.045	.015	.057	.178	.991
26	.057	.099	.082	.082	.079	.054	.054	.037	.011	.051	.136	.510
27	.045	.110	.062	.076	.085	.057	.054	.018	.018	.051	.093	.241
28	.068	.108	.085	.071	.085	.059	.040	.020	.025	.045	.082	.167
29	.074	.096	.096	.082	---	.054	.042	.042	.014	.042	.091	.139
30	.079	.091	.093	.082	---	.028	.045	.031	.012	.045	.136	.116
31	.079	---	.085	.088	---	.059	---	.045	---	.048	.079	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.105	.088	.062	.991	.099	2.18	3.28	.082	.108	.054	.453	.510
2	.170	3.85	.065	.510	.099	21.9	2.66	.096	.102	.026	1.59	.311
3	.906	9.80	.062	.187	.102	11.5	1.87	.071	.139	.026	.311	.232
4	.396	2.21	.059	.368	.116	6.68	1.02	.065	.110	.048	.229	.201
5	.235	1.22	.059	.906	.133	6.99	.623	.062	.091	.054	.204	1.08
6	.176	.765	.059	18.0	.116	6.37	.453	.059	.079	.054	.142	6.91
7	.164	.368	.057	10.4	.110	3.65	.272	.071	.076	.368	.091	3.28
8	.130	.198	.059	2.58	.108	1.53	.156	.065	.068	.057	.108	1.19
9	.113	.085	.059	1.61	.105	1.10	.085	.178	.091	.065	.110	.595
10	.122	.085	.059	1.08	.102	.680	.059	.235	.082	.074	.105	.425
11	.119	.096	.065	.566	.099	.425	.065	.105	.096	.057	.076	.340
12	.116	.065	.093	.453	.096	.255	.065	.079	.093	.042	.068	.139
13	.119	.057	.136	.311	.088	.195	.059	.093	.099	.031	.218	.198
14	.110	.057	.096	.255	.088	.142	.042	.082	.091	.023	.229	.093
15	.110	.057	.105	.204	.088	.119	.037	.082	.068	.048	.221	.184
16	.088	.054	.934	.167	.088	.110	.048	.074	.071	.045	.130	.113
17	.065	.054	5.32	.139	.088	.105	.048	.071	.065	.062	.113	.102
18	.085	.054	1.73	.116	.088	.093	.048	.065	.136	.085	.108	.102
19	.093	.054	.272	.113	.085	.085	.037	.190	.062	.057	.119	.122
20	.238	.054	.108	.108	.082	.085	.045	.136	.042	.040	.096	.085
21	.311	.048	.156	.122	.093	.096	.054	.099	.113	.059	.082	.082
22	.368	.054	.125	.113	.079	.110	.057	.099	.074	.096	.088	.102
23	.119	.054	.130	.130	.074	.108	.054	.074	.059	.105	.076	2.01
24	.088	.054	.113	.136	.071	.102	.062	.065	.040	.142	1.95	1.30
25	.071	.057	.099	.127	.076	.850	.074	.057	.037	.074	3.31	.212
26	.054	.062	.093	.119	.076	3.60	.071	.062	.020	.164	1.39	.096
27	.045	.068	.093	.127	.076	3.34	.076	.051	.022	.218	.623	.065
28	.068	.065	.093	.130	.082	2.35	.102	.040	.042	.130	.878	.076
29	.057	.062	7.45	.113	---	2.44	.079	.040	.034	.065	.453	.122
30	.048	.059	3.11	.113	---	4.16	.108	.023	.034	.082	.244	.181
31	.074	---	1.76	.113	---	4.33	---	.082	---	.096	.595	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ

LOCATION.--Lat 34°54'04", Long 110°15'17", in NE¼SE¼ Sec. 6, T.17 N., R.20 E., Navajo County, Hydrologic Unit 15020008, on right bank just upstream from diversion dam, 8.7 km west of Holbrook, 9.2 km southeast of Joseph City, and 13.7 km downstream from Puerco River.

DRAINAGE AREA.--32,075 km², of which 899 km² are noncontributing.

PERIOD OF RECORD.--October 1988 to September 1991.

OTHER DATA COLLECTION AT THIS SITE.--July 1973 to current year (daily discharge only for those days on which instantaneous discharge exceeds 14.16 m³/s).

REMARKS.--Only daily mean discharges above 1.42 m³/s are published.

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	10.6	---
2	---	---	---	---	---	---	---	---	---	---	11.5	---
3	---	---	---	---	---	---	---	---	---	---	8.67	---
4	---	---	---	---	---	---	---	---	---	---	---	3.57
5	---	---	---	---	3.31	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	3.88	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	67.7	---
19	---	---	---	---	---	---	---	---	---	---	31.4	---
20	---	---	---	---	---	---	---	---	---	---	15.8	---
21	---	---	---	---	---	---	---	---	---	---	5.89	---
22	---	---	---	---	---	---	---	---	---	---	1.61	---
23	---	---	---	---	---	---	---	---	---	7.82	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	1.42	---	---	---	---	---	---	---	11.8	---	---
27	---	---	---	---	---	1.56	---	---	---	9.34	---	---
28	---	---	---	---	---	---	---	---	---	10.7	---	---
29	---	---	---	---	---	---	---	---	---	9.32	---	---
30	---	---	---	---	---	---	---	---	---	9.00	---	---
31	---	---	---	---	---	---	---	---	---	4.76	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	12.1
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	1.47
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	10.9
8	---	---	---	---	---	---	---	---	---	27.8	---	---
9	---	---	---	---	---	---	---	---	---	9.88	---	---
10	---	---	---	---	---	---	---	---	---	3.57	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	1.70	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	10.8	4.84	---
15	---	---	---	---	---	---	---	---	---	20.6	25.0	---
16	---	---	---	---	---	---	---	---	---	8.44	37.9	---
17	---	---	---	---	---	---	---	---	---	1.90	34.5	---
18	---	---	---	---	---	---	---	---	---	3.51	16.7	---
19	---	---	---	---	---	---	---	---	---	---	---	15.7
20	---	---	---	---	---	---	---	---	---	---	---	18.1
21	---	---	---	---	---	---	---	---	---	---	---	28.3
22	---	---	---	---	---	---	---	---	---	---	---	20.5
23	---	---	---	---	---	---	---	---	---	---	---	20.5
24	---	---	---	---	---	---	---	---	---	---	---	16.7
25	---	---	---	---	---	---	---	---	---	---	---	13.9
26	---	---	---	---	---	---	---	---	---	---	---	8.50
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	6.40	---	---	---	1.76	---
2	---	---	---	---	---	28.9	5.44	---	---	---	---	---
3	---	22.3	---	---	---	36.5	4.53	---	---	---	---	---
4	---	5.66	---	10.4	---	13.7	3.09	---	---	---	3.14	---
5	---	---	---	28.6	---	9.32	2.63	---	---	---	---	---
6	---	---	---	73.6	---	7.76	1.61	---	---	---	---	12.2
7	---	---	---	30.6	---	12.6	---	---	---	---	---	3.79
8	---	---	---	12.1	---	9.32	---	---	---	---	4.67	2.41
9	---	---	---	7.76	---	4.96	---	---	---	---	---	---
10	---	---	---	4.33	---	1.61	---	---	---	---	---	---
11	---	---	---	3.23	2.61	---	---	---	---	---	---	---
12	---	---	---	1.90	5.89	---	---	---	---	---	---	---
13	---	---	---	---	6.91	---	---	---	---	---	---	---
14	---	---	---	---	7.19	---	---	---	---	---	---	---
15	---	---	---	---	6.91	---	---	---	---	---	---	---
16	---	---	31.4	---	6.14	---	---	---	---	---	---	---
17	---	---	15.8	---	2.24	---	---	---	---	---	---	---
18	---	---	1.70	---	5.30	---	---	---	---	---	---	---
19	---	---	---	---	4.53	---	---	---	---	---	---	---
20	10.3	---	---	---	1.47	---	---	---	---	---	---	---
21	20.7	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	3.26	---	---	---	---	---	---
27	---	---	---	---	---	5.44	---	---	---	---	---	---
28	---	---	---	---	---	4.33	---	---	---	---	8.33	---
29	---	---	10.3	---	---	4.53	---	---	---	---	---	---
30	---	---	10.1	---	---	4.70	---	---	---	---	---	---
31	---	---	---	---	---	11.5	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ

LOCATION.--Lat 35°26'45", Long 111°12'12", in T.24 N., R.11 E. (unsurveyed), Coconino County, Hydrologic Unit 15020016, in Navajo Indian Reservation, on left bank 305 m downstream from Grand Falls, 7.2 km upstream from Dinnebito Wash, 48 km northeast of Flagstaff, and 154 km upstream from mouth.

DRAINAGE AREA.--54,566 km², of which 953 km² are noncontributing.

PERIOD OF RECORD.-- October 1989 to September 1991.

OTHER DATA COLLECTION AT THIS SITE.--October 1925 to September 1951, October 1951 to September 1953 (peak discharges only), October 1953 to June 1960, October 1989 to current year.

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.142
2	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.127
3	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.32
4	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	8.69
5	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	5.35
6	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.40
7	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.14
8	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.61
9	.000	.000	.000	.000	.000	.000	.000	.000	.000	15.5	.000	3.94
10	.000	.000	.000	.000	.000	.000	2.18	.000	.000	8.01	.000	2.15
11	.000	.000	.000	.000	.000	.000	2.58	.000	.000	5.47	.000	.651
12	.000	.000	.000	.000	.000	.000	1.78	.000	.000	2.44	.000	.368
13	.000	.000	.000	.000	.000	.000	1.16	.000	.000	1.27	.000	.340
14	.000	.000	.000	.000	.000	.000	.821	.000	.000	2.21	.000	.252
15	.000	.000	.000	.000	.000	.000	.453	.000	.000	1.53	.001	.184
16	.000	.000	.000	.000	.000	.000	.210	.000	.000	7.45	10.2	.204
17	.000	.000	.000	.000	.000	.000	.040	.000	.000	18.4	41.1	.147
18	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.28	18.2	.311
19	.000	.000	.000	.000	.000	.000	.000	.000	.000	4.62	13.5	1.33
20	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.89	6.23	6.80
21	.000	.000	.000	.000	.000	.000	.000	.000	.000	2.04	2.63	3.65
22	.000	.000	.000	.000	.000	.000	.000	.000	.000	3.48	1.05	27.7
23	.000	.000	.000	.000	.000	.000	.000	.000	.000	1.30	.510	25.2
24	.000	.000	.000	.000	.000	.000	.000	.000	.000	.623	.311	7.33
25	.000	.000	.000	.000	.000	.000	.000	.000	.000	.340	1.33	5.86
26	.000	.000	.000	.000	.000	.000	.000	.000	.000	.142	.538	4.47
27	.000	.000	.000	.000	.000	.000	.000	.000	.000	.093	.278	2.78
28	.000	.000	.000	.000	.000	.000	.000	.000	.000	.068	.204	1.27
29	.000	.000	.000	.000	---	.000	.000	.000	.000	.051	.198	.850
30	.000	.000	.000	.000	---	.000	.000	.000	.000	.034	.156	.510
31	.000	---	.000	.000	---	.000	---	.000	---	.010	.136	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.368	.057	.000	11.0	.006	3.17	13.6	6.65	.000	.000	.023	.062
2	.311	.031	.000	9.32	.007	3.03	18.5	4.79	.000	.000	.014	.170
3	.269	.027	.000	6.40	.006	36.5	18.5	4.30	.000	.000	.000	.193
4	.187	8.07	.000	4.81	.006	60.0	26.5	3.82	.000	.000	.000	.283
5	.110	5.89	.000	5.89	.005	36.5	39.1	3.82	.000	.000	.000	.201
6	.093	2.44	.000	22.6	.005	25.7	47.6	3.34	.000	.000	.028	.176
7	.074	1.56	.000	76.7	.003	45.0	55.2	2.69	.000	.000	.000	.110
8	.023	.538	.000	56.1	.003	54.1	56.9	2.44	.000	.000	.000	6.37
9	.003	.283	.000	16.6	.002	40.2	61.4	1.81	.000	.000	.000	4.96
10	.000	.159	.000	7.28	.000	22.9	70.2	1.67	.000	.000	.000	2.55
11	.000	.037	.000	5.47	.000	14.5	84.4	1.39	.000	.000	.000	1.36
12	.000	.022	.000	3.31	.000	11.2	85.2	1.22	.000	.000	.765	.680
13	.000	.008	.000	2.92	.000	10.3	71.4	1.10	.000	.000	.425	.368
14	.000	.006	.000	2.07	.000	9.29	40.5	.991	.000	.000	.340	.278
15	.000	.003	.000	1.42	3.11	7.11	26.8	.821	.000	.000	.278	.255
16	.000	.001	.000	.991	9.15	7.45	19.2	.680	.000	.000	.198	.142
17	.000	.000	16.9	.736	8.50	6.80	19.3	.453	.000	.000	.159	.028
18	.000	.000	20.6	.595	6.99	5.38	27.7	.283	.000	.000	.102	.000
19	.000	.000	5.35	.425	6.51	4.50	29.7	.159	.000	.000	.068	.000
20	.000	.000	3.20	.340	8.33	3.40	27.0	.059	.000	.000	.034	.000
21	.000	.000	.850	.283	5.61	2.86	25.0	.010	.000	.000	.014	.000
22	9.57	.000	.793	.215	3.94	3.23	22.9	.001	.000	.000	.001	.000
23	3.96	.000	.793	.108	2.92	4.73	22.8	.000	.000	.000	.000	.000
24	1.27	.000	.934	.091	2.21	5.15	20.4	.000	.000	.000	.000	.000
25	.510	.000	.425	.051	1.70	3.82	17.4	.000	.000	.000	.000	.000
26	.258	.003	.108	.042	1.27	3.23	14.8	.000	.000	.000	.000	.000
27	.201	.000	.051	.023	1.22	3.11	13.5	.000	.000	.000	.000	.000
28	.178	.000	.068	.016	3.11	9.12	13.3	.000	.000	.000	.000	.000
29	.215	.000	.093	.008	---	10.2	12.2	.000	.000	.000	.000	.000
30	.150	.000	.396	.007	---	7.11	7.67	.000	.000	.000	.000	.000
31	.110	---	14.8	.006	---	7.67	---	.000	---	.000	.004	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ

LOCATION.-- Lat 35°55'35", Long 111°34'00", in NW¼, Sec. 5, T.29 N., R.8 E. (unsurveyed), Coconino County, Hydrologic Unit 15020016, in Navajo Indian Reservation, on left bank 4.8 km downstream from Coconino damsite, 15.2 km downstream from Moenkopi Wash, 15.3 km northwest of Cameron, and 72 km upstream from mouth.

DRAINAGE AREA.--68,529 km², of which 953 km² are noncontributing.

PERIOD OF RECORD.--October 1989 to September 1991.

OTHER DATA COLLECTION AT THIS SITE.--June 1947 to current year.

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.000	.000	.000	.000	.042	.023	.000	.004	.000	.000	.481	.091
2	.000	.000	.000	.000	.062	.020	.000	.014	.000	.000	3.34	.076
3	.000	.000	.000	.000	.014	.023	.000	.002	.000	.000	.255	.059
4	.000	.000	.000	.000	.006	.031	.000	.001	.000	.000	.017	9.32
5	.000	.000	.000	.000	.014	.034	.000	.001	.000	.000	.003	8.58
6	.538	.000	.000	.000	.017	.023	.000	.001	.000	.000	.000	7.19
7	1.22	.000	.000	.000	.028	.018	.000	.000	.000	.000	.000	5.66
8	.368	.000	.000	.000	.028	.013	.000	.000	.000	11.0	.000	2.83
9	.068	.000	.000	.000	.017	.006	.000	.000	.000	5.30	.000	1.70
10	.015	.000	.000	.000	.020	.003	.000	.000	.000	9.77	.000	1.42
11	.003	.000	.000	.000	.023	.003	.000	.000	.000	4.96	.000	.850
12	.000	.000	.000	.000	.028	.003	.159	.000	.000	2.83	.000	.708
13	.000	.000	.000	.000	.009	.003	.453	.000	.000	1.70	.000	.566
14	.000	.000	.000	.018	.023	.003	.340	.000	.000	1.13	.000	.453
15	.000	.000	.000	.023	.003	.000	.156	.000	.000	6.74	17.3	.396
16	.000	.000	.000	.034	.003	.000	.071	.000	.000	4.22	10.1	.963
17	.000	.000	.000	.031	.003	.000	.016	.000	.000	14.5	30.0	2.46
18	.000	.000	.000	.026	.003	.000	.003	.000	.000	11.1	26.2	23.5
19	.000	.000	.000	.026	.028	.000	.002	.000	.000	4.25	17.8	47.0
20	.000	.000	.000	.034	.272	.000	.001	.000	.000	4.25	9.03	26.1
21	.000	.000	.000	.031	2.04	.000	.001	.000	.000	2.27	4.47	31.4
22	.000	.000	.000	.037	2.55	.000	.001	.000	.000	1.42	2.01	20.1
23	.000	.000	.000	.003	1.25	.000	.000	.000	.000	17.0	1.02	32.0
24	.000	.000	.000	.006	.566	.000	.108	.000	.000	5.72	.481	34.3
25	.000	.000	.000	.003	.170	.000	.396	.000	.000	.651	.210	2.24
26	.000	.000	.000	.003	.057	.000	.133	.000	.000	.258	.595	3.91
27	.000	.000	.000	.003	.037	.000	.059	.000	.000	.093	.595	2.86
28	.000	.000	.000	.003	.026	.000	.022	.000	.000	.031	.283	1.78
29	.000	.000	.000	.003	---	.000	.006	.000	.000	.006	.184	1.08
30	.000	.000	.000	.003	---	.000	.003	.000	.000	.002	.144	.623
31	.000	---	.000	.008	---	.000	---	.000	---	.002	.113	---

SURFACE-WATER DATA—Continued

DAILY MEAN DISCHARGE—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ—Continued

DISCHARGE, CUBIC METERS PER SECOND, WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.396	.093	.009	5.58	.028	1.90	7.25	7.53	.127	.000	.000	.071
2	1.50	.062	.008	6.82	.025	2.80	16.4	6.17	.031	.000	.340	12.0
3	4.30	.037	.007	10.1	.023	8.52	19.3	4.56	.000	.000	.235	8.10
4	2.52	.022	.006	11.8	.020	46.4	21.2	4.02	.000	.000	.116	2.61
5	.736	10.3	.002	11.7	.283	42.5	28.9	3.77	.000	.000	.062	.651
6	.368	4.25	.001	9.51	.057	27.2	36.8	3.91	.000	.000	.368	8.07
7	.127	2.07	.000	30.6	.048	30.3	43.3	3.62	.000	.000	.906	5.86
8	.040	1.50	.000	59.7	.040	42.2	47.0	3.11	.000	.000	.963	7.08
9	.015	1.05	.000	27.3	.040	43.0	49.0	2.61	.000	.000	.481	10.2
10	.009	.651	.000	11.9	.040	29.2	51.3	2.04	.000	.000	.340	6.97
11	.008	.481	.000	4.87	.037	18.0	57.8	1.56	.000	.000	.261	4.25
12	.007	.340	.000	2.61	.037	12.4	60.6	1.25	.000	.000	.227	2.83
13	.007	.255	.000	1.53	.031	10.2	56.6	1.02	.000	.000	.510	1.42
14	.004	.195	.000	1.56	.025	9.29	45.0	.850	.000	.000	.368	.708
15	.001	.142	.000	1.36	.026	8.18	30.3	.651	.000	.000	.283	.425
16	.000	.102	.021	1.36	.027	6.94	22.8	.453	.000	.000	.241	.283
17	.000	.068	.022	1.08	7.28	6.48	17.7	.368	.000	.000	.130	.057
18	.000	.042	19.8	.963	6.77	6.51	21.8	.283	.000	.000	.074	.028
19	.000	.031	9.00	.906	4.93	5.95	28.6	.142	.000	.000	.042	.014
20	.000	.025	3.99	.765	6.37	5.38	28.6	.014	.000	.000	.014	.000
21	.000	.022	2.78	.623	6.37	4.25	25.8	.000	.000	.000	.003	.000
22	.000	.022	1.90	.453	4.19	2.83	24.0	.000	.000	.000	.000	.000
23	5.04	.024	1.25	.368	3.09	3.96	23.0	.000	.000	.000	.000	.000
24	4.73	.024	.906	.311	2.72	5.38	22.8	.000	.000	.000	.000	.000
25	1.84	.024	.708	.224	2.38	5.66	19.8	.000	.000	.008	.000	.000
26	1.10	.018	.566	.113	2.07	5.10	16.7	.000	.000	.027	.000	.000
27	.708	.021	.425	.085	1.64	4.53	13.8	.000	.000	.009	2.29	.000
28	.481	.019	.340	.057	1.27	3.96	13.3	.000	.000	.004	7.22	.000
29	.311	.017	.283	.045	---	11.6	12.5	.000	.000	.000	1.02	.000
30	.198	.013	.181	.037	---	9.09	9.66	.000	.000	.000	.215	.000
31	.133	---	.102	.034	---	7.28	---	.000	---	.000	.113	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than .283 m³/s are published.

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), MAY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	15100	---
2	---	---	---	---	---	---	---	---	---	---	46600	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	31300
6	---	---	---	---	---	---	---	---	---	---	---	38200
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	60700	---	---
25	---	---	---	---	---	---	---	---	---	62100	---	---
26	---	---	---	---	---	---	---	---	---	120000	---	---
27	---	---	---	---	---	---	---	---	---	103000	---	---
28	---	---	---	---	---	---	---	---	---	126000	---	---
29	---	---	---	---	---	---	---	---	---	83200	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	64600	29000	---
6	---	---	---	---	---	---	---	---	---	117000	---	---
7	---	---	---	---	---	---	---	---	---	54900	---	---
8	---	---	---	---	---	---	---	---	---	65800	---	---
9	---	---	---	---	---	---	---	---	---	81800	---	---
10	---	---	---	---	---	---	---	---	---	115000	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	79300	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	41900	26500	---
15	---	---	---	---	---	---	---	---	---	---	64600	---
16	---	---	---	---	---	---	---	---	---	---	133000	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	78400
21	---	---	---	---	---	---	---	---	---	---	---	58600
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81700	---	---	---	---	---	---	---	---	---	13700	---
2	---	---	---	---	---	---	---	---	---	---	56300	---
3	---	---	---	---	---	---	---	---	---	---	42000	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	68200	---
7	---	---	---	---	---	---	---	---	---	---	67200	---
8	---	---	---	---	---	---	---	---	---	---	22000	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	53900	---
11	---	---	---	---	---	---	---	---	---	---	74000	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	24000	---	---	---	---	---	---	---	---	---	---	---
20	312000	---	---	---	---	---	---	---	---	---	---	---
21	79200	---	---	---	---	---	---	---	---	---	---	---
22	10000	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than 1.416 m³/s are published.

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), MAY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	131000	---
2	---	---	---	---	---	---	---	---	---	---	132000	---
3	---	---	---	---	---	---	---	---	---	---	93100	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	80100
6	---	---	---	---	---	---	---	---	---	---	---	149000
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	172000	---
19	---	---	---	---	---	---	---	---	---	---	214000	26300
20	---	---	---	---	---	---	---	---	---	---	126000	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	25500	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	93300	---	---
27	---	---	---	---	---	---	---	---	---	89100	---	---
28	---	---	---	---	---	---	---	---	---	82200	---	---
29	---	---	---	---	---	---	---	---	---	88200	---	---
30	---	---	---	---	---	---	---	---	---	68300	---	---
31	---	---	---	---	---	---	---	---	---	79800	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	70500
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	38700
6	---	---	---	---	---	---	---	---	---	50100	---	---
7	---	---	---	---	---	---	---	---	---	58900	94400	---
8	---	---	---	---	---	---	---	---	---	97100	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	45500	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	31800	---	---
13	---	---	---	---	---	---	---	---	---	27700	---	---
14	---	---	---	---	---	---	---	---	---	14500	60500	---
15	---	---	---	---	---	---	---	---	---	---	67900	---
16	---	---	---	---	---	---	---	---	---	---	74900	---
17	---	---	---	---	---	---	---	---	---	44500	41600	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	49300	42100	---
21	---	---	---	---	---	---	---	---	---	---	108000	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	11900	---	128000
24	---	---	---	---	---	---	---	---	---	42100	---	81800
25	---	---	---	---	---	---	---	---	---	---	---	34300
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	37200	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6690	---	---	---	---	---	---	---	---	---	37500	---
2	50800	---	---	---	---	---	---	---	---	---	127000	---
3	---	---	---	---	---	---	---	---	---	---	88000	---
4	---	---	---	---	---	---	---	---	---	---	47400	22700
5	---	---	---	---	---	---	31100	---	---	---	---	---
6	---	---	---	---	---	---	74800	---	---	---	49300	---
7	---	---	---	---	---	---	---	---	---	---	81600	---
8	---	---	---	---	---	---	51100	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	19800	---	69200	---
12	12400	---	---	---	---	---	---	---	62400	---	---	---
13	---	---	---	---	---	---	---	---	44400	---	---	---
14	---	---	---	---	---	---	---	---	44000	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	12500	---	---	---	---	---	---	---	---	---	---	---
20	59100	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	79500	20000	---
27	---	---	---	---	---	---	---	---	---	90900	72900	---
28	---	---	---	---	---	24200	---	---	---	---	53800	---
29	---	---	---	---	---	34100	---	---	---	86300	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than .142 m³/s are published.

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), MARCH 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	1800	---	---	---	10200	---
2	---	---	---	---	---	---	1350	---	---	---	3560	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	4810
6	---	---	---	---	---	---	---	---	---	---	---	5740
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	4100	---
9	---	---	---	---	---	---	---	---	---	---	5770	---
10	---	---	---	---	---	---	---	---	---	---	2440	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	24500	---
20	---	---	---	---	---	---	---	---	---	---	37800	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	1410	---	---	---	---	---	---
24	---	---	---	---	---	2630	---	---	---	---	---	---
25	---	---	---	---	---	2850	---	---	---	---	---	---
26	---	---	---	---	---	4070	---	---	---	1800	---	---
27	---	---	---	---	---	4980	---	---	---	---	---	---
28	---	---	---	---	---	4350	---	---	---	---	---	---
29	---	---	---	---	---	3460	---	---	---	10300	---	---
30	---	---	---	---	---	2120	---	---	---	10900	---	---
31	---	---	---	---	---	2220	---	---	---	10400	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	3620	---	---	---	---	---	---
2	---	---	---	---	---	2650	---	---	---	---	2030	---
3	---	---	---	---	---	1960	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	61700
7	---	---	---	---	---	---	---	---	---	---	---	11700
8	---	---	---	---	---	---	---	---	---	3780	---	3560
9	---	---	---	---	---	---	---	---	---	2630	---	49200
10	---	---	---	---	---	---	---	---	---	---	---	2370
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	19000	---	---
13	---	---	---	---	---	---	---	---	---	2250	---	---
14	---	---	---	---	---	---	---	---	---	42700	151000	---
15	---	---	---	---	---	---	---	---	---	12800	75000	---
16	---	---	---	---	---	---	---	---	---	1730	6310	---
17	---	---	---	---	---	---	---	---	---	96600	3630	---
18	---	---	---	---	---	---	---	---	---	27300	---	---
19	---	---	---	---	---	---	---	---	---	4440	---	5780
20	---	---	---	---	---	---	---	---	---	2310	---	13700
21	---	---	---	---	---	---	---	---	---	1650	9260	11300
22	---	---	---	---	---	---	---	---	---	---	1820	1560
23	---	---	---	---	---	---	---	---	---	---	---	4500
24	---	---	---	---	---	---	---	---	---	---	---	2730
25	---	---	---	---	2340	---	---	---	---	---	---	---
26	---	---	---	---	3650	---	---	---	---	---	---	---
27	---	---	---	---	2570	---	---	---	---	---	---	---
28	---	---	---	---	3950	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	9290	12500	---	---	---	---	---
2	---	---	---	---	---	12000	8060	---	---	---	---	---
3	---	---	---	---	---	10800	5590	---	---	---	---	---
4	---	---	---	e1040	---	7110	3300	---	---	---	---	---
5	---	---	---	e10600	---	15500	2150	---	---	---	---	6080
6	---	---	---	e8470	---	32100	1590	---	---	---	---	27800
7	---	---	---	e5290	1880	22200	---	---	---	---	121000	4040
8	---	---	---	e4220	2770	11400	---	---	---	---	6280	---
9	---	---	---	e2320	2680	3970	---	---	---	---	1650	---
10	---	---	---	e1040	2560	2560	---	---	---	---	---	---
11	---	---	---	---	2670	1750	4230	---	---	---	---	---
12	---	---	---	---	2670	---	7080	---	---	---	---	---
13	---	---	---	---	2520	---	3900	---	---	---	---	---
14	---	---	---	---	2340	---	1880	---	---	---	---	---
15	---	---	---	---	2530	---	---	---	---	---	9630	---
16	---	---	---	---	3570	---	2300	---	---	---	24700	---
17	---	---	---	---	4300	---	4970	---	---	---	1610	---
18	---	---	---	---	3390	---	5650	---	---	---	---	---
19	---	---	---	---	2020	---	6230	---	---	---	---	---
20	11900	---	---	---	---	---	4810	---	---	---	---	---
21	---	---	---	---	---	---	2830	---	---	---	---	---
22	---	---	---	---	---	---	2670	---	---	---	---	---
23	---	---	---	---	---	---	2040	---	---	---	---	---
24	---	---	---	---	---	---	1750	---	---	40400	---	---
25	---	---	---	---	---	---	1310	---	---	14200	---	---
26	---	---	---	---	---	---	---	---	---	5380	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	5530	---	---	---	---	---	---
30	---	---	---	---	---	7640	---	---	---	---	---	---
31	---	---	---	---	---	15100	---	---	---	---	---	---

e Estimated

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than .566 m³/s are published.SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	95800	---
2	---	---	---	---	44100	---	---	---	---	---	16100	---
3	---	---	---	---	37100	---	---	---	---	---	38600	---
4	---	---	---	---	38400	---	---	---	---	---	---	---
5	---	---	---	---	31300	---	---	---	---	---	---	---
6	---	---	---	---	16400	18000	---	---	---	---	---	46300
7	---	---	---	---	19300	---	---	---	---	---	---	15000
8	---	---	---	---	19500	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	46100	---	---	---	---	---	---	---
13	---	---	---	---	44300	---	---	---	---	---	---	---
14	---	---	---	---	26500	---	---	---	---	---	---	---
15	---	---	---	---	17900	---	---	---	---	---	---	---
16	---	---	---	---	24900	---	---	---	---	---	---	---
17	---	---	---	---	21400	---	---	---	---	---	---	---
18	---	---	---	---	28400	---	---	---	---	---	---	---
19	---	---	---	---	30400	---	---	---	---	---	136000	---
20	---	---	---	---	37600	18000	---	---	---	---	75600	---
21	---	---	---	---	17300	---	---	---	---	---	---	---
22	---	---	---	---	20000	---	---	---	---	---	---	---
23	---	---	---	---	21200	---	---	---	---	---	---	---
24	---	---	---	---	18500	---	---	---	---	---	---	---
25	---	---	---	---	16900	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	23300	---	---	---	---	12100	---	---
28	---	---	---	---	19800	---	---	---	---	31400	---	---
29	---	---	---	---	---	---	---	---	---	55500	---	---
30	---	---	---	---	---	---	---	---	---	28900	---	---
31	---	---	---	---	---	---	---	---	---	51000	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	20100
4	---	---	---	---	---	---	---	---	---	---	---	8860
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	66000
7	---	---	---	---	---	---	---	---	---	---	---	30700
8	---	---	---	---	---	---	---	---	---	26900	25900	25900
9	---	---	---	---	---	---	---	---	---	44000	---	28100
10	---	---	---	---	---	---	---	---	---	22500	---	20900
11	---	---	---	---	---	---	---	---	---	59400	---	---
12	---	---	---	---	20200	---	---	---	---	29300	---	---
13	---	---	---	---	---	---	---	---	---	28500	---	---
14	---	---	---	---	19200	---	---	---	---	109000	25800	---
15	---	---	---	---	---	---	---	---	---	48400	115000	---
16	---	---	---	---	---	---	---	---	---	57100	40800	---
17	---	---	---	---	---	---	---	---	---	---	28200	---
18	---	---	---	---	---	---	---	---	---	43900	35200	---
19	---	---	---	---	---	---	---	---	---	29300	---	---
20	---	---	---	---	---	---	---	---	---	16200	---	---
21	---	---	---	---	---	---	---	---	---	23400	39400	---
22	---	---	---	---	---	---	---	---	---	18300	28400	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	38300	---	---
25	---	---	---	---	---	---	---	---	---	21900	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	27300	---	---	---	23200	---
2	---	---	---	---	---	69200	33700	---	---	---	98400	---
3	---	---	---	---	---	64300	37500	---	---	---	69400	---
4	---	---	---	e27000	---	41300	28100	---	---	---	42200	---
5	---	---	---	e42000	---	39600	21600	---	---	---	20600	15400
6	---	---	---	e70000	---	59200	23900	---	---	---	39000	27800
7	---	---	---	23800	---	37900	18300	---	---	---	97900	24900
8	---	---	---	73800	e26000	26600	19600	---	---	---	53600	---
9	---	---	---	40600	34000	---	---	---	---	---	---	---
10	---	---	---	56600	42100	---	---	---	---	---	---	---
11	---	---	---	37200	75700	---	---	---	---	---	---	---
12	---	---	---	33100	77000	---	---	---	42900	---	---	---
13	---	---	---	35600	50200	---	---	---	40700	---	---	---
14	---	---	21300	33100	63000	---	---	---	52500	---	---	---
15	---	---	---	e20000	61100	---	---	---	23600	---	---	---
16	---	---	---	7710	54700	---	---	---	---	---	22400	---
17	---	---	---	---	62100	20700	---	---	---	---	18400	---
18	---	---	---	---	69700	---	---	---	---	---	---	---
19	---	---	---	---	22300	---	---	---	---	---	---	---
20	93400	---	---	---	---	---	---	---	---	---	---	---
21	44000	---	---	---	---	---	---	---	---	---	---	---
22	23600	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	29500	---	---
27	---	---	---	---	---	---	---	---	---	44500	85400	---
28	---	---	---	---	---	18200	---	---	---	23100	25100	---
29	---	---	---	---	---	34500	---	---	---	12500	26300	---
30	---	---	---	---	---	32200	---	---	---	10400	22400	---
31	---	---	---	---	---	28900	---	---	---	---	---	---

e Estimated

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than .142 m³/s are published.

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	410	---	---	---	---	---	---	---
3	---	---	---	---	1470	---	---	---	---	---	---	---
4	---	---	---	---	1090	---	---	---	---	---	---	---
5	---	---	---	---	610	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	610	---	---	---	---	---	---	---
11	---	---	---	---	510	---	---	---	---	---	---	---
12	---	---	---	---	590	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	9300	---	---
27	---	---	---	---	---	---	---	---	---	1220	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
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6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
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9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	940	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	1070	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09386950 ZUMI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	136	---	---	---	---	---
5	---	---	---	---	---	---	136	---	---	---	---	1850
6	---	---	---	---	---	---	177	---	---	---	---	955
7	---	---	---	---	---	---	240	---	---	---	---	118
8	---	---	---	---	---	---	188	---	---	---	---	---
9	---	---	---	---	---	---	190	---	---	---	---	---
10	---	---	---	---	---	---	437	---	---	---	---	---
11	---	---	---	---	---	---	564	---	---	---	---	---
12	---	---	---	---	---	---	530	---	---	---	---	---
13	---	---	---	---	---	---	432	---	---	---	---	---
14	---	---	---	---	---	---	463	---	---	---	---	---
15	---	---	---	---	---	---	493	---	---	---	---	---
16	---	---	---	---	---	---	522	---	---	---	---	---
17	---	---	---	---	---	---	223	---	---	---	---	---
18	---	---	---	---	---	---	175	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than .283 m³/s are published.SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	6480	---
2	---	---	---	---	---	---	---	---	---	---	5570	---
3	---	---	---	---	---	---	---	---	---	---	3120	1590
4	---	---	---	---	---	---	---	---	---	---	2040	5320
5	---	---	---	---	---	---	---	---	---	---	1140	1580
6	---	---	---	2080	---	---	---	---	---	---	630	822
7	---	---	---	617	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	1240	363	---
11	582	---	---	---	1870	---	---	---	---	---	---	---
12	640	---	---	---	2060	---	---	---	---	1670	---	---
13	---	---	---	---	1210	---	---	---	---	1120	---	---
14	847	---	---	---	772	---	1200	---	---	---	---	---
15	2950	---	---	---	---	---	1200	---	---	---	---	---
16	2180	---	---	---	---	---	---	---	---	---	---	---
17	979	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	20800	---
19	---	---	---	---	---	---	---	---	---	---	33600	---
20	---	---	---	---	---	---	---	---	---	---	11700	---
21	---	---	---	---	---	---	---	---	---	---	4310	---
22	---	---	---	---	---	---	---	---	---	---	1870	---
23	---	---	---	---	---	---	---	---	---	15000	684	---
24	---	---	---	---	---	---	---	---	---	4480	---	---
25	---	---	---	833	---	---	---	---	---	2450	---	---
26	---	---	---	---	---	---	---	---	---	11200	---	---
27	---	---	---	---	---	1320	---	---	---	7650	---	---
28	---	---	---	---	---	---	---	---	---	5280	---	---
29	---	---	---	---	---	---	---	---	---	5220	---	---
30	---	---	---	---	---	---	---	---	---	4550	---	---
31	---	---	---	---	---	---	---	---	---	3490	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	983	4210
2	---	---	---	---	---	---	---	---	---	---	---	6730
3	---	---	---	---	---	---	---	---	---	---	---	2870
4	---	---	---	---	---	---	---	---	---	---	---	3570
5	---	---	---	---	---	---	---	---	---	---	---	4280
6	---	---	---	---	---	---	---	---	---	---	---	1020
7	---	---	---	---	---	---	---	---	---	4450	---	1920
8	---	---	---	---	---	---	---	---	---	9670	---	902
9	---	---	---	---	---	---	---	---	---	8380	---	567
10	---	---	---	---	---	---	---	---	---	2490	---	---
11	---	---	---	---	---	---	---	---	---	1790	---	---
12	---	---	---	---	---	---	---	---	---	1410	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	18000	---
15	---	---	---	---	---	---	---	---	---	2590	23400	---
16	---	---	---	---	---	---	---	---	---	636	28100	---
17	---	---	---	---	---	---	---	---	---	---	16900	---
18	---	---	---	---	---	---	---	---	---	---	2790	---
19	---	---	---	---	---	---	---	---	---	---	746	---
20	---	---	---	---	---	---	---	---	---	---	---	6210
21	---	---	---	---	---	---	---	---	---	---	---	30400
22	---	---	---	---	---	---	---	---	---	---	---	17500
23	---	---	---	---	---	---	---	---	---	---	---	4360
24	---	---	---	---	---	---	---	---	---	---	---	2710
25	---	---	---	---	---	---	---	---	---	---	---	1370
26	---	---	---	---	---	---	---	---	---	---	---	841
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	1770	---	2060	4150	---	---	---	672	950
2	---	5690	---	903	---	29100	4190	---	---	---	2740	622
3	1560	12200	---	---	---	16700	2840	---	---	---	644	---
4	753	3930	---	703	---	10400	1990	---	---	---	---	---
5	---	2170	---	1490	---	10700	1310	---	---	---	---	1780
6	---	1420	---	25400	---	9350	850	---	---	---	---	10800
7	---	689	---	36300	---	5550	---	---	---	768	---	4980
8	---	---	---	5580	---	2950	---	---	---	---	---	2300
9	---	---	---	2870	---	1820	---	---	---	---	---	1060
10	---	---	---	1960	---	1080	---	---	---	---	---	757
11	---	---	---	1160	---	313	---	---	---	---	---	594
12	---	---	---	874	---	---	---	---	---	---	---	---
13	---	---	---	693	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	748	---	---	---	---	---	---	---	---	---
17	---	---	8260	---	---	---	---	---	---	---	---	---
18	---	---	2960	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	662	---	---	---	---	---	---	---	---	---	---	---
22	575	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	2730
24	---	---	---	---	---	---	---	---	---	---	2930	2000
25	---	---	---	---	---	923	---	---	---	---	5010	---
26	---	---	---	---	---	5340	---	---	---	---	2340	---
27	---	---	---	---	---	4920	---	---	---	---	1050	---
28	---	---	---	---	---	3840	---	---	---	---	3620	---
29	---	---	8420	---	---	3940	---	---	---	---	1550	---
30	---	---	5390	---	---	4580	---	---	---	---	---	---
31	---	---	2990	---	---	4220	---	---	---	---	1290	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

9397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than 1.416 m³/s are published.

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	44600	---
2	---	---	---	---	---	---	---	---	---	---	53000	---
3	---	---	---	---	---	---	---	---	---	---	25900	---
4	---	---	---	---	---	---	---	---	---	---	---	6990
5	---	---	---	---	15300	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	7000	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	54600	---
19	---	---	---	---	---	---	---	---	---	---	43300	---
20	---	---	---	---	---	---	---	---	---	---	15800	---
21	---	---	---	---	---	---	---	---	---	---	6580	---
22	---	---	---	---	---	---	---	---	---	---	3440	---
23	---	---	---	---	---	---	---	---	---	13700	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	9880	---	---	---	---	---	---	---	36000	---	---
27	---	---	---	---	---	10800	---	---	---	34200	---	---
28	---	---	---	---	---	---	---	---	---	22900	---	---
29	---	---	---	---	---	---	---	---	---	16000	---	---
30	---	---	---	---	---	---	---	---	---	23900	---	---
31	---	---	---	---	---	---	---	---	---	20800	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	11800
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	23200
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	58500
8	---	---	---	---	---	---	---	---	---	26600	---	---
9	---	---	---	---	---	---	---	---	---	15100	---	---
10	---	---	---	---	---	---	---	---	---	6980	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	7900	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	65900	22000	---
15	---	---	---	---	---	---	---	---	---	103000	48700	---
16	---	---	---	---	---	---	---	---	---	66000	66400	---
17	---	---	---	---	---	---	---	---	---	10500	47900	---
18	---	---	---	---	---	---	---	---	---	7950	34200	---
19	---	---	---	---	---	---	---	---	---	---	---	30300
20	---	---	---	---	---	---	---	---	---	---	---	33500
21	---	---	---	---	---	---	---	---	---	---	---	46400
22	---	---	---	---	---	---	---	---	---	---	---	28300
23	---	---	---	---	---	---	---	---	---	---	---	29200
24	---	---	---	---	---	---	---	---	---	---	---	30000
25	---	---	---	---	---	---	---	---	---	---	---	27900
26	---	---	---	---	---	---	---	---	---	---	---	24400
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	15100	---	---	---	9450	---
2	---	---	---	---	---	45500	22300	---	---	---	---	---
3	---	44500	---	---	---	53700	18100	---	---	---	---	---
4	---	15000	---	14300	---	29000	15800	---	---	---	11600	---
5	---	---	---	31700	---	21400	12800	---	---	---	---	---
6	---	---	---	85300	---	18300	9490	---	---	---	---	28300
7	---	---	---	34200	---	30900	---	---	---	---	---	20300
8	---	---	---	9360	---	21800	---	---	---	---	104000	16200
9	---	---	---	5000	---	13400	---	---	---	---	---	---
10	---	---	---	2590	---	6600	---	---	---	---	---	---
11	---	---	---	1510	4320	---	---	---	---	---	---	---
12	---	---	---	907	16200	---	---	---	---	---	---	---
13	---	---	---	---	17700	---	---	---	---	---	---	---
14	---	---	---	---	18000	---	---	---	---	---	---	---
15	---	---	---	---	17700	---	---	---	---	---	---	---
16	---	---	91600	---	14900	---	---	---	---	---	---	---
17	---	---	82600	---	9120	---	---	---	---	---	---	---
18	---	---	37100	---	14100	---	---	---	---	---	---	---
19	---	---	---	---	11300	---	---	---	---	---	---	---
20	15900	---	---	---	5750	---	---	---	---	---	---	---
21	34600	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	11000	---	---	---	---	---	---
27	---	---	---	---	---	15400	---	---	---	---	---	---
28	---	---	---	---	---	12600	---	---	---	---	162000	---
29	---	---	17900	---	---	12900	---	---	---	---	---	---
30	---	---	26700	---	---	13300	---	---	---	---	---	---
31	---	---	---	---	---	13700	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than .566 m³/s are published.

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	36600
4	---	---	---	---	---	---	---	---	---	---	---	47800
5	---	---	---	---	---	---	---	---	---	---	---	42600
6	---	---	---	---	---	---	---	---	---	---	---	39700
7	---	---	---	---	---	---	---	---	---	---	---	38800
8	---	---	---	---	---	---	---	---	---	---	---	33800
9	---	---	---	---	---	---	---	---	---	33100	---	40400
10	---	---	---	---	---	---	1310	---	---	50900	---	34700
11	---	---	---	---	---	---	1780	---	---	48100	---	27300
12	---	---	---	---	---	---	1400	---	---	45000	---	---
13	---	---	---	---	---	---	1110	---	---	38700	---	---
14	---	---	---	---	---	---	896	---	---	40400	---	---
15	---	---	---	---	---	---	---	---	---	38800	---	---
16	---	---	---	---	---	---	---	---	---	73200	29400	---
17	---	---	---	---	---	---	---	---	---	105000	93200	---
18	---	---	---	---	---	---	---	---	---	64900	77000	---
19	---	---	---	---	---	---	---	---	---	65100	71900	22700
20	---	---	---	---	---	---	---	---	---	56900	63400	44200
21	---	---	---	---	---	---	---	---	---	52800	52200	40500
22	---	---	---	---	---	---	---	---	---	59500	43100	65700
23	---	---	---	---	---	---	---	---	---	44800	---	55300
24	---	---	---	---	---	---	---	---	---	35700	---	42800
25	---	---	---	---	---	---	---	---	---	---	43900	43300
26	---	---	---	---	---	---	---	---	---	---	---	40900
27	---	---	---	---	---	---	---	---	---	---	---	37300
28	---	---	---	---	---	---	---	---	---	---	---	31300
29	---	---	---	---	---	---	---	---	---	---	---	27100
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	27700	---	12000	10100	2530	---	---	---	---
2	---	---	---	26900	---	12000	10600	2210	---	---	---	---
3	---	---	---	23400	---	23700	10300	2000	---	---	---	---
4	---	24300	---	22600	---	29400	14700	1800	---	---	---	---
5	---	44000	---	25500	---	23500	13100	1610	---	---	---	---
6	---	38200	---	29300	---	20800	11600	1500	---	---	---	---
7	---	34200	---	41900	---	22600	15300	1410	---	---	---	---
8	---	---	---	40900	---	16100	16600	1390	---	---	---	58100
9	---	---	---	30600	---	15400	11900	1320	---	---	---	57500
10	---	---	---	25200	---	12100	9670	1200	---	---	---	53100
11	---	---	---	23500	---	10500	22800	1100	---	---	---	49700
12	---	---	---	20300	---	9580	24200	998	---	---	38100	44900
13	---	---	---	19000	---	9200	16400	912	---	---	---	---
14	---	---	---	17900	---	8770	12100	887	---	---	---	---
15	---	---	---	16600	8590	7880	9170	798	---	---	---	---
16	---	---	---	15900	17000	7920	5770	698	---	---	---	---
17	---	---	12200	15000	16200	7740	5980	---	---	---	---	---
18	---	---	30700	13800	16000	7660	7860	---	---	---	---	---
19	---	---	23100	---	16100	7360	8740	---	---	---	---	---
20	---	---	19000	---	16600	6760	8050	---	---	---	---	---
21	---	---	13800	---	15000	6090	7490	---	---	---	---	---
22	28200	---	13900	---	13000	6170	7120	---	---	---	---	---
23	43300	---	14700	---	11200	7240	7370	---	---	---	---	---
24	31500	---	14900	---	10400	7470	6920	---	---	---	---	---
25	---	---	---	---	9410	6870	5980	---	---	---	---	---
26	---	---	---	---	8150	6570	5030	---	---	---	---	---
27	---	---	---	---	8300	6610	4480	---	---	---	---	---
28	---	---	---	---	11500	8970	4420	---	---	---	---	---
29	---	---	---	---	---	9100	3920	---	---	---	---	---
30	---	---	---	---	---	9320	3040	---	---	---	---	---
31	---	---	30200	---	---	9660	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ

REMARKS.--Sediment concentration for days when the daily mean discharge was greater than .566 m³/s are published.SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	36400	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	5400	---	---	---	---	---	---	---	---	---	---	49100
5	---	---	---	---	---	---	---	---	---	---	---	60100
6	---	---	---	---	---	---	---	---	---	---	---	60700
7	---	---	---	---	---	---	---	---	---	---	---	59500
8	---	---	---	---	---	---	---	---	---	55200	---	54900
9	---	---	---	---	---	---	---	---	---	63300	---	49200
10	---	---	---	---	---	---	---	---	---	68500	---	39700
11	---	---	---	---	---	---	---	---	---	69900	---	29600
12	---	---	---	---	---	---	---	---	---	66000	---	20800
13	---	---	---	---	---	---	---	---	---	56900	---	---
14	---	---	---	---	---	---	---	---	---	52900	---	---
15	---	---	---	---	---	---	---	---	---	52400	53800	---
16	---	---	---	---	---	---	---	---	---	42400	61400	24800
17	---	---	---	---	---	---	---	---	---	45300	76000	53300
18	---	---	---	---	---	---	---	---	---	34300	80500	82300
19	---	---	---	---	---	---	---	---	---	9020	77600	96800
20	---	---	---	---	---	---	---	---	---	11400	81100	108000
21	---	---	---	---	27200	---	---	---	---	6770	87200	97400
22	---	---	---	---	28500	---	---	---	---	8180	88800	65900
23	---	---	---	---	40600	---	---	---	---	10500	84400	67900
24	---	---	---	---	---	---	---	---	---	17400	---	74400
25	---	---	---	---	---	---	---	---	---	14500	---	59200
26	---	---	---	---	---	---	---	---	---	---	28600	60200
27	---	---	---	---	---	---	---	---	---	---	20600	58000
28	---	---	---	---	---	---	---	---	---	---	---	54000
29	---	---	---	---	---	---	---	---	---	---	---	45500
30	---	---	---	---	---	---	---	---	---	---	---	41200
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT CONCENTRATION—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ—Continued

SEDIMENT, SUSPENDED CONCENTRATION (MILLIGRAMS PER LITER), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34000	---	---	21200	---	13100	27600	4980	---	---	---	---
2	35100	---	---	24900	---	15300	30600	4010	---	---	---	130000
3	59500	---	---	29300	---	22100	32900	3100	---	---	---	155000
4	57000	---	---	30000	---	44900	34500	2900	---	---	---	145000
5	49500	44300	---	29300	---	47700	36500	2810	---	---	---	140000
6	---	39400	---	28700	---	44700	43200	2770	---	---	---	152000
7	---	30500	---	55000	---	45900	48600	2600	---	---	36500	130000
8	---	26800	---	73200	---	47000	50800	2410	---	---	54300	108000
9	---	23100	---	60300	---	47300	51600	2300	---	---	---	88700
10	---	20100	---	40700	---	43700	52000	2200	---	---	---	80700
11	---	---	---	30400	---	38100	52300	2100	---	---	---	69800
12	---	---	---	25200	---	33600	52300	1940	---	---	---	60500
13	---	---	---	22200	---	30700	51100	1480	---	---	---	54900
14	---	---	---	20800	---	29000	47500	973	---	---	---	51200
15	---	---	---	19600	---	27700	41300	595	---	---	---	---
16	---	---	---	21200	---	27200	34300	---	---	---	---	---
17	---	---	---	19100	19500	27100	30100	---	---	---	---	---
18	---	---	38500	17000	18300	27000	30000	---	---	---	---	---
19	---	---	45900	15000	17200	27000	30400	---	---	---	---	---
20	---	---	38400	13000	17700	27000	30200	---	---	---	---	---
21	---	---	33900	11100	17000	27000	27700	---	---	---	---	---
22	---	---	29900	---	16000	27000	23900	---	---	---	---	---
23	28200	---	25700	---	15000	27000	20200	---	---	---	---	---
24	55200	---	22300	---	14000	27000	18800	---	---	---	---	---
25	47700	---	21200	---	13500	27000	14000	---	---	---	---	---
26	39500	---	---	---	13000	27000	12000	---	---	---	---	---
27	29600	---	---	---	12500	27000	9610	---	---	---	18700	---
28	---	---	---	---	12200	27400	8090	---	---	---	133000	---
29	---	---	---	---	---	29500	6980	---	---	---	110000	---
30	---	---	---	---	---	29000	5980	---	---	---	---	---
31	---	---	---	---	---	28000	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM

REMARKS.--Sediment load for days when the daily mean discharge was greater than .283 m³/s are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), MAY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	2690	---
2	---	---	---	---	---	---	---	---	---	---	7250	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	49800
6	---	---	---	---	---	---	---	---	---	---	---	1230
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	4540	---	---
25	---	---	---	---	---	---	---	---	---	1160	---	---
26	---	---	---	---	---	---	---	---	---	53200	---	---
27	---	---	---	---	---	---	---	---	---	12400	---	---
28	---	---	---	---	---	---	---	---	---	65900	---	---
29	---	---	---	---	---	---	---	---	---	1690	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	40100	2220	---
6	---	---	---	---	---	---	---	---	---	14900	---	---
7	---	---	---	---	---	---	---	---	---	6170	---	---
8	---	---	---	---	---	---	---	---	---	18300	---	---
9	---	---	---	---	---	---	---	---	---	30200	---	---
10	---	---	---	---	---	---	---	---	---	7710	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	24300	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	998	2380	---
15	---	---	---	---	---	---	---	---	---	---	11300	---
16	---	---	---	---	---	---	---	---	---	---	15400	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	2330
21	---	---	---	---	---	---	---	---	---	---	---	728
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21900	---	---	---	---	---	---	---	---	---	1830	---
2	---	---	---	---	---	---	---	---	---	---	24500	---
3	---	---	---	---	---	---	---	---	---	---	514	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	45400	---
7	---	---	---	---	---	---	---	---	---	---	6140	---
8	---	---	---	---	---	---	---	---	---	---	213	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	1280	---
11	---	---	---	---	---	---	---	---	---	---	1710	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	15500	---	---	---	---	---	---	---	---	---	---	---
20	188000	---	---	---	---	---	---	---	---	---	---	---
21	1910	---	---	---	---	---	---	---	---	---	---	---
22	122	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM

REMARKS.--Sediment load for days when the daily mean discharge was greater than 1.416 m³/s are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), MAY 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	15100	---
2	---	---	---	---	---	---	---	---	---	---	39000	---
3	---	---	---	---	---	---	---	---	---	---	5590	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	4140
6	---	---	---	---	---	---	---	---	---	---	---	237000
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	36400	---
19	---	---	---	---	---	---	---	---	---	---	86100	1560
20	---	---	---	---	---	---	---	---	---	---	1600	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	3160	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	18300	---	---
27	---	---	---	---	---	---	---	---	---	50500	---	---
28	---	---	---	---	---	---	---	---	---	18900	---	---
29	---	---	---	---	---	---	---	---	---	44000	---	---
30	---	---	---	---	---	---	---	---	---	7410	---	---
31	---	---	---	---	---	---	---	---	---	67900	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	6750
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	2220
6	---	---	---	---	---	---	---	---	---	2900	---	---
7	---	---	---	---	---	---	---	---	---	9250	21700	---
8	---	---	---	---	---	---	---	---	---	16500	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	4960	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	2720	---	---
13	---	---	---	---	---	---	---	---	---	144000	---	---
14	---	---	---	---	---	---	---	---	---	3210	47400	---
15	---	---	---	---	---	---	---	---	---	---	31100	---
16	---	---	---	---	---	---	---	---	---	---	58200	---
17	---	---	---	---	---	---	---	---	---	6880	19300	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	2440	18100	---
21	---	---	---	---	---	---	---	---	---	---	28100	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	1060	---	55400
24	---	---	---	---	---	---	---	---	---	5950	---	16100
25	---	---	---	---	---	---	---	---	---	---	---	2980
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	1630	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	112	---	---	---	---	---	---	---	---	---	17400	---
2	3720	---	---	---	---	---	---	---	---	---	60100	---
3	---	---	---	---	---	---	---	---	---	---	6210	---
4	---	---	---	---	---	---	---	---	---	---	6330	1840
5	---	---	---	---	---	---	3820	---	---	---	---	---
6	---	---	---	---	---	---	19300	---	---	---	7710	---
7	---	---	---	---	---	---	---	---	---	---	30200	---
8	---	---	---	---	---	---	8310	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	9340	---	3690	---
12	299	---	---	---	---	---	---	---	10600	---	---	---
13	---	---	---	---	---	---	---	---	7690	---	---	---
14	---	---	---	---	---	---	---	---	5040	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	7820	---	---	---	---	---	---	---	---	---	---	---
20	120000	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	12400	73500	---
27	---	---	---	---	---	---	---	---	---	14200	30600	---
28	---	---	---	---	---	4040	---	---	---	---	3570	---
29	---	---	---	---	---	2750	---	---	---	8070	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ

REMARKS.--Sediment load for days when the daily mean discharge was greater than .142 m³/s are published.SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), MARCH 1989 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	30	---	---	---	1470	---
2	---	---	---	---	---	---	18	---	---	---	113	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	212
6	---	---	---	---	---	---	---	---	---	---	---	576
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	341	---
9	---	---	---	---	---	---	---	---	---	---	109	---
10	---	---	---	---	---	---	---	---	---	---	49	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	9860	---
20	---	---	---	---	---	---	---	---	---	---	862	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	38	---	---	---	---	---	---
24	---	---	---	---	---	64	---	---	---	---	---	---
25	---	---	---	---	---	70	---	---	---	---	---	---
26	---	---	---	---	---	150	---	---	---	61	---	---
27	---	---	---	---	---	305	---	---	---	---	---	---
28	---	---	---	---	---	159	---	---	---	---	---	---
29	---	---	---	---	---	127	---	---	---	1670	---	---
30	---	---	---	---	---	78	---	---	---	453	---	---
31	---	---	---	---	---	46	---	---	---	1140	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	115	---	---	---	---	---	---
2	---	---	---	---	---	57	---	---	---	---	25	---
3	---	---	---	---	---	32	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	7410
7	---	---	---	---	---	---	---	---	---	---	---	943
8	---	---	---	---	---	---	---	---	---	92	---	87
9	---	---	---	---	---	---	---	---	---	51	---	14400
10	---	---	---	---	---	---	---	---	---	---	---	44
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	1440	---	---
13	---	---	---	---	---	---	---	---	---	43	---	---
14	---	---	---	---	---	---	---	---	---	4190	43400	---
15	---	---	---	---	---	---	---	---	---	1010	36000	---
16	---	---	---	---	---	---	---	---	---	26	341	---
17	---	---	---	---	---	---	---	---	---	10900	89	---
18	---	---	---	---	---	---	---	---	---	5620	---	---
19	---	---	---	---	---	---	---	---	---	174	---	184
20	---	---	---	---	---	---	---	---	---	52	---	435
21	---	---	---	---	---	---	---	---	---	26	386	947
22	---	---	---	---	---	---	---	---	---	---	28	22
23	---	---	---	---	---	---	---	---	---	---	---	154
24	---	---	---	---	---	---	---	---	---	---	---	63
25	---	---	---	---	45	---	---	---	---	---	---	---
26	---	---	---	---	116	---	---	---	---	---	---	---
27	---	---	---	---	60	---	---	---	---	---	---	---
28	---	---	---	---	145	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	232	1470	---	---	---	---	---
2	---	---	---	---	---	1180	613	---	---	---	---	---
3	---	---	---	---	---	1140	274	---	---	---	---	---
4	---	---	---	13	---	470	105	---	---	---	---	---
5	---	---	---	1300	---	1670	45	---	---	---	---	179
6	---	---	---	830	---	11300	24	---	---	---	---	4090
7	---	---	---	324	29	5010	---	---	---	---	74100	109
8	---	---	---	207	101	670	---	---	---	---	308	---
9	---	---	---	63	57	136	---	---	---	---	26	---
10	---	---	---	13	63	62	---	---	---	---	---	---
11	---	---	---	---	65	30	145	---	---	---	---	---
12	---	---	---	---	65	---	451	---	---	---	---	---
13	---	---	---	---	62	---	144	---	---	---	---	---
14	---	---	---	---	48	---	34	---	---	---	---	---
15	---	---	---	---	68	---	---	---	---	---	401	---
16	---	---	---	---	96	---	37	---	---	---	3380	---
17	---	---	---	---	221	---	232	---	---	---	21	---
18	---	---	---	---	116	---	263	---	---	---	---	---
19	---	---	---	---	33	---	336	---	---	---	---	---
20	702	---	---	---	---	---	212	---	---	---	---	---
21	---	---	---	---	---	---	76	---	---	---	---	---
22	---	---	---	---	---	---	66	---	---	---	---	---
23	---	---	---	---	---	---	40	---	---	---	---	---
24	---	---	---	---	---	---	30	---	---	---	---	---
25	---	---	---	---	---	---	17	---	---	7620	---	---
26	---	---	---	---	---	---	---	---	---	1220	---	---
27	---	---	---	---	---	---	---	---	---	198	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	244	---	---	---	---	---	---
30	---	---	---	---	---	562	---	---	---	---	---	---
31	---	---	---	---	---	2110	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ

REMARKS.--Sediment load for days when the daily mean discharge was greater than .566 m³ are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	121000	---
2	---	---	---	---	1420	---	---	---	---	---	4640	---
3	---	---	---	---	1680	---	---	---	---	---	18700	---
4	---	---	---	---	2400	---	---	---	---	---	---	---
5	---	---	---	---	1500	---	---	---	---	---	---	---
6	---	---	---	---	345	336	---	---	---	---	---	21900
7	---	---	---	---	---	---	---	---	---	---	---	4100
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	3310	---	---	---	---	---	---	---
13	---	---	---	---	3760	---	---	---	---	---	---	---
14	---	---	---	---	980	---	---	---	---	---	---	---
15	---	---	---	---	744	---	---	---	---	---	---	---
16	---	---	---	---	807	---	---	---	---	---	---	---
17	---	---	---	---	553	---	---	---	---	---	---	---
18	---	---	---	---	1080	---	---	---	---	---	---	---
19	---	---	---	---	1350	---	---	---	---	---	112000	---
20	---	---	---	---	1890	345	---	---	---	---	23200	---
21	---	---	---	---	345	---	---	---	---	---	---	---
22	---	---	---	---	435	---	---	---	---	---	---	---
23	---	---	---	---	499	---	---	---	---	---	---	---
24	---	---	---	---	354	---	---	---	---	---	---	---
25	---	---	---	---	299	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	708	---	---	---	---	8720	---	---
28	---	---	---	---	408	---	---	---	---	15300	---	---
29	---	---	---	---	---	---	---	---	---	62900	---	---
30	---	---	---	---	---	---	---	---	---	12200	---	---
31	---	---	---	---	---	---	---	---	---	20200	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	2720
4	---	---	---	---	---	---	---	---	---	---	---	2270
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	99600
7	---	---	---	---	---	---	---	---	---	---	---	7260
8	---	---	---	---	---	---	---	---	---	13600	3180	3900
9	---	---	---	---	---	---	---	---	---	27200	---	7980
10	---	---	---	---	---	---	---	---	---	9980	---	3720
11	---	---	---	---	---	---	---	---	---	31800	---	---
12	---	---	---	---	562	---	---	---	---	11800	---	---
13	---	---	---	---	---	---	---	---	---	20000	---	---
14	---	---	---	---	435	---	---	---	---	798000	8620	---
15	---	---	---	---	---	---	---	---	---	42600	252000	---
16	---	---	---	---	---	---	---	---	---	7350	99800	---
17	---	---	---	---	---	---	---	---	---	---	118000	---
18	---	---	---	---	---	---	---	---	---	29900	15400	---
19	---	---	---	---	---	---	---	---	---	9980	---	---
20	---	---	---	---	---	---	---	---	---	5530	---	---
21	---	---	---	---	---	---	---	---	---	6170	28800	---
22	---	---	---	---	---	---	---	---	---	3900	7080	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	65300	---	---
25	---	---	---	---	---	---	---	---	---	11800	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	2240	---	---	---	4540	---
2	---	---	---	---	---	48200	3070	---	---	---	40700	---
3	---	---	---	---	---	40800	4750	---	---	---	59600	---
4	---	---	---	2650	---	9670	3040	---	---	---	8240	---
5	---	---	---	10300	---	9210	1430	---	---	---	3030	3340
6	---	---	---	42400	---	31400	1940	---	---	---	22900	3510
7	---	---	---	10500	---	8560	1290	---	---	---	211000	2340
8	---	---	---	75200	2300	3610	1090	---	---	---	23000	---
9	---	---	---	9180	10700	1310	---	---	---	---	---	---
10	---	---	---	28900	13400	---	---	---	---	---	---	---
11	---	---	---	6820	57500	---	---	---	---	---	---	---
12	---	---	---	4800	46900	---	---	---	58100	---	---	---
13	---	---	---	13800	19500	---	---	---	24400	---	---	---
14	---	---	1170	5320	48700	---	---	---	57800	---	---	---
15	---	---	---	1080	29900	---	---	---	8600	---	---	---
16	---	---	---	562	25700	---	---	---	---	---	4850	---
17	---	---	---	---	32800	1260	---	---	---	---	1340	---
18	---	---	---	---	42400	---	---	---	---	---	---	---
19	---	---	---	---	3060	---	---	---	---	---	---	---
20	325000	---	---	---	---	---	---	---	---	---	---	---
21	14600	---	---	---	---	---	---	---	---	---	---	---
22	1760	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	4050	---	---
27	---	---	---	---	---	---	---	---	---	20500	208000	---
28	---	---	---	---	---	980	---	---	---	1520	3040	---
29	---	---	---	---	---	9140	---	---	---	1050	2760	---
30	---	---	---	---	---	7720	---	---	---	733	1210	---
31	---	---	---	---	---	5030	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM

REMARKS.--Sediment load for days when the daily mean discharge was greater than .142 m³/s are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	8.1	---	---	---	---	---	---	---
3	---	---	---	---	51	---	---	---	---	---	---	---
4	---	---	---	---	22	---	---	---	---	---	---	---
5	---	---	---	---	9.1	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	10	---	---	---	---	---	---	---
11	---	---	---	---	8.7	---	---	---	---	---	---	---
12	---	---	---	---	8.3	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	2400	---	---
27	---	---	---	---	---	---	---	---	---	22	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	13	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	21	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	25	---	---	---	---	---
5	---	---	---	---	---	---	66	---	---	---	---	190
6	---	---	---	---	---	---	111	---	---	---	---	46
7	---	---	---	---	---	---	104	---	---	---	---	3.2
8	---	---	---	---	---	---	59	---	---	---	---	---
9	---	---	---	---	---	---	52	---	---	---	---	---
10	---	---	---	---	---	---	64	---	---	---	---	---
11	---	---	---	---	---	---	40	---	---	---	---	---
12	---	---	---	---	---	---	28	---	---	---	---	---
13	---	---	---	---	---	---	21	---	---	---	---	---
14	---	---	---	---	---	---	22	---	---	---	---	---
15	---	---	---	---	---	---	23	---	---	---	---	---
16	---	---	---	---	---	---	20	---	---	---	---	---
17	---	---	---	---	---	---	7.1	---	---	---	---	---
18	---	---	---	---	---	---	2.4	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ

REMARKS.--Sediment load for days when the daily mean discharge was greater than .283 m³/s are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	2410	---
2	---	---	---	---	---	---	---	---	---	---	1790	---
3	---	---	---	---	---	---	---	---	---	---	546	914
4	---	---	---	---	---	---	---	---	---	---	210	2890
5	---	---	---	---	---	---	---	---	---	---	45	128
6	---	---	---	163	---	---	---	---	---	---	17	33
7	---	---	---	18	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	111	36	---
11	20	---	---	---	96	---	---	---	---	---	---	---
12	17	---	---	---	177	---	---	---	---	142	---	---
13	---	---	---	---	56	---	---	---	---	76	---	---
14	29	---	---	---	23	---	35	---	---	---	---	---
15	318	---	---	---	---	---	59	---	---	---	---	---
16	198	---	---	---	---	---	---	---	---	---	---	---
17	34	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	42400	---
19	---	---	---	---	---	---	---	---	---	---	47800	---
20	---	---	---	---	---	---	---	---	---	---	8590	---
21	---	---	---	---	---	---	---	---	---	---	1020	---
22	---	---	---	---	---	---	---	---	---	---	174	---
23	---	---	---	---	---	---	---	---	---	34800	23	---
24	---	---	---	---	---	---	---	---	---	1080	---	---
25	---	---	---	24	---	---	---	---	---	396	---	---
26	---	---	---	---	---	---	---	---	---	10400	---	---
27	---	---	---	---	---	52	---	---	---	3480	---	---
28	---	---	---	---	---	---	---	---	---	1300	---	---
29	---	---	---	---	---	---	---	---	---	1520	---	---
30	---	---	---	---	---	---	---	---	---	1010	---	---
31	---	---	---	---	---	---	---	---	---	513	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	67	4380
2	---	---	---	---	---	---	---	---	---	---	---	3210
3	---	---	---	---	---	---	---	---	---	---	---	470
4	---	---	---	---	---	---	---	---	---	---	---	1090
5	---	---	---	---	---	---	---	---	---	---	---	1240
6	---	---	---	---	---	---	---	---	---	---	---	56
7	---	---	---	---	---	---	---	---	---	13300	---	199
8	---	---	---	---	---	---	---	---	---	13200	---	34
9	---	---	---	---	---	---	---	---	---	4450	---	16
10	---	---	---	---	---	---	---	---	---	427	---	---
11	---	---	---	---	---	---	---	---	---	132	---	---
12	---	---	---	---	---	---	---	---	---	124	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	24900	---
15	---	---	---	---	---	---	---	---	---	528	28500	---
16	---	---	---	---	---	---	---	---	---	77	48300	---
17	---	---	---	---	---	---	---	---	---	---	21400	---
18	---	---	---	---	---	---	---	---	---	45	342	---
19	---	---	---	---	---	---	---	---	---	---	20	---
20	---	---	---	---	---	---	---	---	---	---	---	5180
21	---	---	---	---	---	---	---	---	---	---	---	88100
22	---	---	---	---	---	---	---	---	---	---	---	24200
23	---	---	---	---	---	---	---	---	---	---	---	563
24	---	---	---	---	---	---	---	---	---	---	---	402
25	---	---	---	---	---	---	---	---	---	---	---	128
26	---	---	---	---	---	---	---	---	---	---	---	38
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	152	---	2270	1690	---	---	---	41	43
2	---	3540	---	40	---	59400	998	---	---	---	666	17
3	126	11600	---	---	---	17200	466	---	---	---	18	---
4	26	751	---	26	---	6210	180	---	---	---	---	---
5	---	229	---	120	---	7230	73	---	---	---	---	252
6	---	94	---	65100	---	5290	34	---	---	---	---	8110
7	---	22	---	36900	---	1880	---	---	---	63	---	1460
8	---	---	---	1340	---	390	---	---	---	---	---	262
9	---	---	---	401	---	109	---	---	---	---	---	55
10	---	---	---	182	---	36	---	---	---	---	---	28
11	---	---	---	57	---	12	---	---	---	---	---	18
12	---	---	---	34	---	---	---	---	---	---	---	---
13	---	---	---	19	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	234	---	---	---	---	---	---	---	---	---
17	---	---	3970	---	---	---	---	---	---	---	---	---
18	---	---	443	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	19	---	---	---	---	---	---	---	---	---	---	---
22	18	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	957
24	---	---	---	---	---	---	---	---	---	---	837	301
25	---	---	---	---	---	382	---	---	---	---	1980	9.4
26	---	---	---	---	---	1710	---	---	---	---	288	---
27	---	---	---	---	---	1450	---	---	---	---	58	---
28	---	---	---	---	---	802	---	---	---	---	457	---
29	---	---	9800	---	---	841	---	---	---	---	72	---
30	---	---	1490	---	---	2980	---	---	---	---	---	---
31	---	---	464	---	---	3140	---	---	---	---	82	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ

REMARKS.--Sediment load for days when the daily mean discharge was greater than 1.416 m³/s are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	47600	---
2	---	---	---	---	---	---	---	---	---	---	56500	---
3	---	---	---	---	---	---	---	---	---	---	22600	---
4	---	---	---	---	---	---	---	---	---	---	---	3830
5	---	---	---	---	4940	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	2350	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	512000	---
19	---	---	---	---	---	---	---	---	---	---	126000	---
20	---	---	---	---	---	---	---	---	---	---	22500	---
21	---	---	---	---	---	---	---	---	---	---	3460	---
22	---	---	---	---	---	---	---	---	---	---	495	---
23	---	---	---	---	---	---	---	---	---	28800	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	1620	---	---	---	---	---	---	---	46600	---	---
27	---	---	---	---	---	2460	---	---	---	31600	---	---
28	---	---	---	---	---	---	---	---	---	18500	---	---
29	---	---	---	---	---	---	---	---	---	12900	---	---
30	---	---	---	---	---	---	---	---	---	20500	---	---
31	---	---	---	---	---	---	---	---	---	8550	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	43300
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	2960
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	53100
8	---	---	---	---	---	---	---	---	---	87600	---	---
9	---	---	---	---	---	---	---	---	---	13200	---	---
10	---	---	---	---	---	---	---	---	---	2150	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	1160	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	202000	9250	---
15	---	---	---	---	---	---	---	---	---	218000	184000	---
16	---	---	---	---	---	---	---	---	---	48200	210000	---
17	---	---	---	---	---	---	---	---	---	1720	127000	---
18	---	---	---	---	---	---	---	---	---	2410	56000	---
19	---	---	---	---	---	---	---	---	---	---	---	41500
20	---	---	---	---	---	---	---	---	---	---	---	58200
21	---	---	---	---	---	---	---	---	---	---	---	132000
22	---	---	---	---	---	---	---	---	---	---	---	52300
23	---	---	---	---	---	---	---	---	---	---	---	51500
24	---	---	---	---	---	---	---	---	---	---	---	43200
25	---	---	---	---	---	---	---	---	---	---	---	33700
26	---	---	---	---	---	---	---	---	---	---	---	18000
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	8360	---	---	---	1430	---
2	---	---	---	---	---	142000	10500	---	---	---	---	---
3	---	93400	---	---	---	178000	7090	---	---	---	---	---
4	---	7350	---	12800	---	32700	4220	---	---	---	5620	---
5	---	---	---	138000	---	17200	2910	---	---	---	---	---
6	---	---	---	807000	---	12200	1320	---	---	---	---	30800
7	---	---	---	119000	---	33700	---	---	---	---	---	6920
8	---	---	---	9890	---	17600	---	---	---	---	42000	3860
9	---	---	---	3360	---	5740	---	---	---	---	---	---
10	---	---	---	971	---	925	---	---	---	---	---	---
11	---	---	---	422	971	---	---	---	---	---	---	---
12	---	---	---	149	8260	---	---	---	---	---	---	---
13	---	---	---	---	10600	---	---	---	---	---	---	---
14	---	---	---	---	11200	---	---	---	---	---	---	---
15	---	---	---	---	10600	---	---	---	---	---	---	---
16	---	---	343000	---	7920	---	---	---	---	---	---	---
17	---	---	122000	---	1770	---	---	---	---	---	---	---
18	---	---	5450	---	6460	---	---	---	---	---	---	---
19	---	---	---	---	4430	---	---	---	---	---	---	---
20	75800	---	---	---	732	---	---	---	---	---	---	---
21	75800	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	4220	---	---	---	---	---	---
27	---	---	---	---	---	7240	---	---	---	---	---	---
28	---	---	---	---	---	4730	---	---	---	---	170000	---
29	---	---	36200	---	---	5050	---	---	---	---	---	---
30	---	---	23200	---	---	5410	---	---	---	---	---	---
31	---	---	---	---	---	13600	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ

REMARKS.--Sediment load for days when the daily mean discharge was greater than .566 m³/s are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	21300
4	---	---	---	---	---	---	---	---	---	---	---	36400
5	---	---	---	---	---	---	---	---	---	---	---	20000
6	---	---	---	---	---	---	---	---	---	---	---	12000
7	---	---	---	---	---	---	---	---	---	---	---	10600
8	---	---	---	---	---	---	---	---	---	---	---	4850
9	---	---	---	---	---	---	---	---	---	86100	---	13800
10	---	---	---	---	---	---	363	---	---	35200	---	6620
11	---	---	---	---	---	---	394	---	---	22800	---	1570
12	---	---	---	---	---	---	218	---	---	9530	---	---
13	---	---	---	---	---	---	113	---	---	4260	---	---
14	---	---	---	---	---	---	64	---	---	7860	---	---
15	---	---	---	---	---	---	---	---	---	5100	---	---
16	---	---	---	---	---	---	---	---	---	60200	71600	---
17	---	---	---	---	---	---	---	---	---	186000	335000	---
18	---	---	---	---	---	---	---	---	---	24500	121000	---
19	---	---	---	---	---	---	---	---	---	27400	84200	4890
20	---	---	---	---	---	---	---	---	---	14400	34200	26000
21	---	---	---	---	---	---	---	---	---	9310	12000	12900
22	---	---	---	---	---	---	---	---	---	19100	3960	166000
23	---	---	---	---	---	---	---	---	---	5120	---	122000
24	---	---	---	---	---	---	---	---	---	1970	---	27700
25	---	---	---	---	---	---	---	---	---	---	5050	22300
26	---	---	---	---	---	---	---	---	---	---	---	15800
27	---	---	---	---	---	---	---	---	---	---	---	9010
28	---	---	---	---	---	---	---	---	---	---	---	3470
29	---	---	---	---	---	---	---	---	---	---	---	2000
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	26500	---	3290	11900	1460	---	---	---	---
2	---	---	---	21800	---	3150	17000	916	---	---	---	---
3	---	---	---	13000	---	83300	16400	745	---	---	---	---
4	---	37900	---	9430	---	153000	33700	595	---	---	---	---
5	---	22500	---	13100	---	74700	44300	533	---	---	---	---
6	---	8050	---	57300	---	46400	47700	434	---	---	---	---
7	---	4800	---	281000	---	87800	73600	328	---	---	---	---
8	---	---	---	204000	---	75300	81900	293	---	---	---	32000
9	---	---	---	44000	---	53500	62900	207	---	---	---	25000
10	---	---	---	15900	---	24100	59300	173	---	---	---	11700
11	---	---	---	11200	---	13300	170000	132	---	---	---	5850
12	---	---	---	5840	---	9330	179000	106	---	---	2700	2690
13	---	---	---	4770	---	8230	102000	88	---	---	---	---
14	---	---	---	3190	---	7050	42400	76	---	---	---	---
15	---	---	---	2040	3740	4860	21400	57	---	---	---	---
16	---	---	---	1350	13600	5110	9640	41	---	---	---	---
17	---	---	50300	952	11900	4470	10100	---	---	---	---	---
18	---	---	58400	717	9640	3570	18900	---	---	---	---	---
19	---	---	10700	---	9140	2870	22400	---	---	---	---	---
20	---	---	5360	---	12000	1990	18800	---	---	---	---	---
21	---	---	1040	---	7280	1480	16200	---	---	---	---	---
22	43300	---	1000	---	4420	1720	14100	---	---	---	---	---
23	14900	---	1020	---	2820	2960	14500	---	---	---	---	---
24	3510	---	1240	---	1980	3330	12200	---	---	---	---	---
25	---	---	---	---	1390	2270	8980	---	---	---	---	---
26	---	---	---	---	890	1830	6510	---	---	---	---	---
27	---	---	---	---	897	1780	5200	---	---	---	---	---
28	---	---	---	---	3130	7080	5140	---	---	---	---	---
29	---	---	---	---	---	8050	4150	---	---	---	---	---
30	---	---	---	---	---	5730	2010	---	---	---	---	---
31	---	---	38600	---	---	6410	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ

REMARKS.--Sediment load for days when the daily mean discharge was greater than .566 m³/s are published.

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	18100	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	49900
5	---	---	---	---	---	---	---	---	---	---	---	44600
6	---	---	---	---	---	---	---	---	---	---	---	37700
7	569	---	---	---	---	---	---	---	---	---	---	29100
8	---	---	---	---	---	---	---	---	---	70300	---	13400
9	---	---	---	---	---	---	---	---	---	29100	---	7230
10	---	---	---	---	---	---	---	---	---	57900	---	4860
11	---	---	---	---	---	---	---	---	---	29900	---	2180
12	---	---	---	---	---	---	---	---	---	16100	---	1270
13	---	---	---	---	---	---	---	---	---	8360	---	---
14	---	---	---	---	---	---	---	---	---	5180	---	---
15	---	---	---	---	---	---	---	---	---	31700	102000	---
16	---	---	---	---	---	---	---	---	---	15500	53500	3610
17	---	---	---	---	---	---	---	---	---	59000	209000	11200
18	---	---	---	---	---	---	---	---	---	36100	182000	241000
19	---	---	---	---	---	---	---	---	---	3310	119000	394000
20	---	---	---	---	---	---	---	---	---	4190	62400	244000
21	---	---	---	---	9890	---	---	---	---	1320	33600	265000
22	---	---	---	---	8300	---	---	---	---	998	15400	117000
23	---	---	---	---	10400	---	---	---	---	15400	7610	189000
24	---	---	---	---	---	---	---	---	---	8950	---	256000
25	---	---	---	---	---	---	---	---	---	833	---	11500
26	---	---	---	---	---	---	---	---	---	---	1700	20500
27	---	---	---	---	---	---	---	---	---	---	1070	14400
28	---	---	---	---	---	---	---	---	---	---	---	8360
29	---	---	---	---	---	---	---	---	---	---	---	4260
30	---	---	---	---	---	---	---	---	---	---	---	2510
31	---	---	---	---	---	---	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

DAILY MEAN SUSPENDED-SEDIMENT DISCHARGE—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ—Continued

SEDIMENT DISCHARGE, SUSPENDED (MEGAGRAMS/DAY), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	---	---	10300	---	2150	17300	3160	---	---	---	---
2	8070	---	---	14700	---	3720	43600	2140	---	---	---	174000
3	22300	---	---	25700	---	20500	54700	1220	---	---	---	108000
4	12600	---	---	30600	---	182000	63500	1010	---	---	---	32700
5	3210	55200	---	29700	---	174000	91900	916	---	---	---	7880
6	---	14800	---	23400	---	105000	138000	934	---	---	---	119000
7	---	5490	---	162000	---	121000	182000	816	---	---	4320	73300
8	---	3480	---	379000	---	172000	206000	650	---	---	4520	66100
9	---	2090	---	147000	---	177000	218000	518	---	---	---	78200
10	---	1150	---	41700	---	110000	232000	388	---	---	---	48600
11	---	---	---	12800	---	59600	261000	251	---	---	---	25700
12	---	---	---	5680	---	36100	275000	191	---	---	---	14800
13	---	---	---	2940	---	27100	250000	123	---	---	---	6720
14	---	---	---	2800	---	23300	187000	65	---	---	---	3140
15	---	---	---	2300	---	19600	109000	32	---	---	---	---
16	---	---	---	2490	---	16300	67200	---	---	---	---	---
17	---	---	---	1780	13400	15200	45400	---	---	---	---	---
18	---	---	112000	1430	10700	15200	60900	---	---	---	---	---
19	---	---	36100	1160	7350	13900	75300	---	---	---	---	---
20	---	---	13300	989	9810	12600	75100	---	---	---	---	---
21	---	---	8080	700	9340	9890	61400	---	---	---	---	---
22	---	---	4910	---	5790	6610	48500	---	---	---	---	---
23	26700	---	2770	---	4000	9250	40100	---	---	---	---	---
24	22600	---	1750	---	3290	12600	37800	---	---	---	---	---
25	7610	---	1300	---	2780	13200	24000	---	---	---	---	---
26	3760	---	---	---	2320	11900	17300	---	---	---	---	---
27	1840	---	---	---	1780	10600	11100	---	---	---	9620	---
28	---	---	---	---	1340	9430	9130	---	---	---	83200	---
29	---	---	---	---	---	29500	7160	---	---	---	9710	---
30	---	---	---	---	---	22700	4940	---	---	---	---	---
31	---	---	---	---	---	17600	---	---	---	---	---	---

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09395350	PUERCO RIVER NEAR CHURCH ROCK, NEW MEXICO	07-24-89	0515	35°36'41"N	108°33'11"W
		07-24-89	1435		
		07-27-89	1025		
		07-28-89	1830		
		09-05-89	2110		
		07-07-90	2350		
		07-08-90	0030		
		07-08-90	0800		
		07-08-90	0810		
		07-09-90	2020		
		07-09-90	2020		
		07-09-90	2040		
		07-09-90	2120		
		07-12-90	0100		
		07-12-90	0100		
		07-12-90	0140		
		08-15-90	1030		
		08-01-91	1900		
		08-02-91	0120		
		08-02-91	0130		
		08-02-91	0210		
		08-02-91	0230		
		08-02-91	0310		
		08-02-91	0350		
		08-02-91	0430		
		08-06-91	2100		
		08-06-91	2110		
		08-06-91	2140		
		08-06-91	2200		
		08-06-91	2240		
		08-06-91	2320		
		08-06-91	2350		
		08-07-91	0010		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, IN CUBIC (meters per second (00060)	DIS- CHARGE, INST. CUBIC (meters per second) (00061)	GAGE HEIGHT (meters) (00065)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	2051	50	--	10.4	--	.74	1520	1520	--
	07-24-89		10	29.0	--	.42	.37	896	896	--
	07-27-89		10	17.5	--	.24	.34	696	696	--
	07-28-89		70	--	17.4	--	.90	--	969	--
	09-05-89		50	--	11.1	--	.76	--	661	--
	07-07-90		50	--	16.5	16.4	.88	1040	1000	--
	07-08-90		50	--	16.1	--	.87	810	--	--
	07-08-90		70	15.0	--	.93	.37	720	768	--
	07-08-90		--	--	--	--	--	--	--	--
	07-09-90		50	--	22.4	--	1.00	515	--	--
	07-09-90		50	--	--	19.0	.94	--	814	--
	07-09-90		50	--	15.7	--	.87	700	--	--
	07-09-90		50	--	16.9	--	.89	690	822	--
	07-12-90		50	--	19.6	--	.95	770	--	--
	07-12-90		50	--	--	18.4	.92	--	883	--
	07-12-90		50	--	17.2	--	.90	720	--	--
	08-15-90		10	16.0	1.9	--	.46	530	644	7.6
	08-01-91		50	--	8.3	--	.69	530	--	--
	08-02-91		50	--	12.7	--	.80	990	--	--
	08-02-91		50	--	7.7	--	.67	1120	--	--
	08-02-91		50	--	9.2	--	.71	930	--	--
	08-02-91		50	--	13.8	--	.82	860	--	--
	08-02-91		50	--	14.0	--	.83	820	--	--
	08-02-91		50	--	9.9	--	.73	810	--	--
	08-02-91		50	--	6.0	--	.62	800	--	--
	08-06-91		50	--	10.6	--	.75	930	--	--
	08-06-91		50	--	28.9	--	1.12	830	--	--
	08-06-91		50	--	28.1	--	1.11	650	--	--
	08-06-91		50	--	30.0	--	1.10	630	--	--
	08-06-91		50	--	21.8	--	.99	620	--	--
	08-06-91		50	--	16.9	--	.89	630	--	--
	08-06-91		50	--	11.7	--	.77	640	--	--
	08-07-91		50	--	8.1	--	.68	650	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LINITY LAB (mg/L as CaCO3) (90410)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (metric tons per day) (70302)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	HARD- NESS TOTAL (mg/L as CaCO3) (00900)
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PUERCO RIVER NEAR CHURCK ROCK, NM—Continued

09395350	07-24-89	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--
	09-05-89	--	7.8	--	--	--	--	.550	--
	07-07-90	8.5	7.1	148	720	691	1016	--	430
	07-08-90	8.5	--	--	--	--	--	--	--
	07-08-90	7.8	7.2	113	526	508	41.9	--	320
	07-08-90	--	--	--	--	--	--	--	--
	07-09-90	7.4	--	--	--	--	--	--	--
	07-09-90	--	7.4	167	548	535	901	--	350
	07-09-90	7.5	--	--	--	--	--	--	--
	07-09-90	7.4	7.4	--	--	--	--	--	--
	07-12-90	7.5	--	--	--	--	--	--	--
	07-12-90	--	7.4	82	615	601	980	--	390
	07-12-90	7.6	--	--	--	--	--	--	--
	08-15-90	8.6	8.1	155	364	377	58.9	--	330
	08-01-91	7.5	--	--	--	--	--	--	--
	08-02-91	7.4	--	--	--	--	--	--	--
	08-02-91	7.4	--	--	--	--	--	--	--
	08-02-91	7.5	--	--	--	--	--	--	--
	08-02-91	7.5	--	--	--	--	--	--	--
	08-02-91	7.5	--	--	--	--	--	--	--
	08-02-91	7.3	--	--	--	--	--	--	--
	08-02-91	7.4	--	--	--	--	--	--	--
	08-06-91	7.5	--	--	--	--	--	--	--
	08-06-91	7.4	--	--	--	--	--	--	--
	08-06-91	7.4	--	--	--	--	--	--	--
	08-06-91	7.4	--	--	--	--	--	--	--
	08-06-91	7.5	--	--	--	--	--	--	--
	08-06-91	7.4	--	--	--	--	--	--	--
	08-06-91	7.4	--	--	--	--	--	--	--
	08-07-91	7.5	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	4.0	<.010	.60
	07-07-90	130	25	30	.6	13	9.2	6.5	<.010	.70
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	98	18	22	.5	13	7.6	5.2	<.010	.80
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	110	19	21	.5	11	8.8	4.6	<.010	.70
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	7.7	5.0	.010	.60
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	120	22	23	.5	11	9.2	6.3	<.010	.80
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	110	13	13	.3	8	7.2	3.0	<.010	.60
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)	BORON, DIS- SOLVED (μg/L as B) (01020)	CADMIUM DIS- SOLVED (μg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (μg/L as Cr) (01030)	COBALT, DIS- SOLVED (μg/L as Co) (01035)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	240	--	--	--	--	--	--	--
	07-07-90	9.1	390‡	1	92	<.5	100	<1.0	<5	<3
	07-08-90	--	--	--	58	<.5	--	--	--	--
	07-08-90	7.9	280‡	<1	--	--	70	<1.0	<5	<3
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	60	.5	--	--	--	--
	07-09-90	9.7	260‡	<1	--	--	90	<1.0	<5	<3
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	320‡	<1	--	--	80	--	--	--
	07-12-90	--	--	--	61	<.5	--	--	--	--
	07-12-90	9.1	360‡	<1	--	--	90	1.0	<5	<3
	07-12-90	--	--	--	72	<.5	--	--	--	--
	08-15-90	8.0	180	1	--	--	70	5.0†	<5	<3
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	COPPER, DIS- SOLVED ($\mu\text{g/L}$ as Cu) (01040)	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	07-07-90	<10	29	<10i	190‡	<10	<10	<1.0	1000	<6
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	<10	23	<10i	110‡	<10	<10	1.0	700	<6
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	<10	9	<10i	38	<10	<10	<1.0	790	<6
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	<10	10	<10i	45	<10	<10	<1.0	860	<6
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	<10	160	<10i	310‡	<10	<10	<1.0	590	<6
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	GROSS ALPHA, DIS- SOLVED ($\mu\text{g/L}$ as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS ($\mu\text{g/L}$ as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL ($\mu\text{g/L}$ as U-nat) (80040)	GROSS ALPHA SEDI- MENT (pCi/G) (01507)
		PUERCO RIVER NEAR CHURCH ROCK, NM—Continued								
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	12†	2.2	1700*	--
	07-07-90	6	22	1	--	--	6.3	2.3	12000*	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	6	15	2	--	--	11†	2.7	2600*	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	<3	18	<3	--	--	14†	3.3	2900*	9
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	<2	--	--	12†	3.0	5500*	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	<3	18	3	--	--	10	2.7	8100*	11
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	1900	16	<1	--	--	--	--	--	8
	08-01-91	--	--	--	-64.0	-9.35	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	-84.5	-12.35	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	-55.5	-9.15	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
08-07-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS	ALPHA,	GROSS	ALPHA,	GROSS	BETA,	GROSS	GROSS	BETA,
		ALPHA	2 SIGMA	ALPHA,	2 SIGMA,	BETA,	2 SIGMA	BETA,	BETA,	2 SIGMA
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	DIS-	WATER,	SUSP.	DISS.	WATER,
		TOT DRY	TOT DRY	DRY WGT	TOT DRY	SOLVED	DISS,	TOTAL	(pCi/L	(pCi/L
		(μg/G	(μg/G	(pCi/G	(pCi/G	(pCi/L	(pCi/L	(pCi/L	as	as
		as	as	as	as	as	as	as	Sr-90/	Sr-90/
		U-nat)	U-nat)	Th-230)	Th-230)	Cs-137)	Cs-137)	Cs-137)	Y-90)	Y-90)
		(99920)	(75965)	(04125)	(75955)	(03515)	(75989)	(03516)	(80050)	(75988)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	12	2.2	2200*	10	1.8
	07-07-90	--	--	--	--	21	4.1	4500*	16	3.2
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	14	3.8	2400*	10	2.2
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	13.90	9.9	9	6.3	19	3.7	4300*	14	2.8
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	17	3.5	4000*	13	2.6
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	15.70	10	11	7.3	17	3.5	4300*	13	2.7
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	10.10	8.1	8	6.0	--	--	--	--	--
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
08-07-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY (pCi/G as Sr-90/ Y-90) (76005)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (04102)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (75966)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Cs-137) (99922)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Cs-137) (99923)	Cs-137 SOIL, TOTAL, DRY WGT (pCi/G) (76007)	Cs-137 2 SIGMA SOIL, TOTAL, DRY WGT (pCi/G) (04103)	Ra-226 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75944)
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PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	1900*	270	--	--	--	--	--	--	--
	07-07-90	4100*	1100	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	1900*	560	--	--	--	--	.10	.010	--
	07-08-90	--	--	--	--	--	--	.09	.010	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	3900*	1000	21	5.0	27.10	4.970	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	3700*	1000	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	3900*	1100	9	3.2	11.10	3.170	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	9	3.2	11.60	3.160	--	--	1.5
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	URANIUM	U-234	U-234	U-234	URANIUM	U-235	U-235	U-235	URANIUM
		-234	2 SIGMA	SED,	SED,	-235	2 SIGMA	SED,	2 SIGMA	-238
		WATER	WATER,	SUSP,	SUSP,	WATER,	WATER,	SUSP,	SUSP,	WATER
		DISSOLV	DISS,	TOTAL,	TOTAL,	DISS	DISS,	TOTAL,	TOTAL,	DISSOLV
		(pCi/L)	(pCi/L)	(pCi/G)	(pCi/G)	(pCi/L)	(pCi/L)	(pCi/G)	(pCi/G)	(pCi/L)
		(22610)	(75992)	(75942)	(75941)	(22620)	(75994)	(75975)	(75947)	(22603)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	07-07-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	1.5	.33	--	--	<.1	.05	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	.8	.20	--	--	<.1	ND	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	1.3	.30	--	--	<.1	ND	--
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	1.2	.2	1.3	.32	<.1	.02	<.1	.07	1.0
	08-01-91	--	--	1.6	.20	--	--	<.1	ND	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	1.2	.18	--	--	<.1	ND	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	1.0	.16	--	--	<.1	ND	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	U-238	U-238	U-238	URANIUM	URANIUM	Th-230	Th-230	Th-232
		2 SIGMA SED, WATER, DISS, (pCi/L) (75991)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75940)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)	NATURAL DIS- SOLVED (μg/L as U) (22703)	NATURAL 2 SIGMA WATER, DISS, (μg/L) (75990)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75952)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued									
09395350	07-24-89	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--
	07-28-89	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--
	07-07-90	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--
	07-09-90	--	1.2	.30	--	--	1.9	.23	1.8
	07-09-90	--	--	--	--	--	--	--	--
	07-09-90	--	.6	.17	--	--	.8	.20	.7
	07-12-90	--	--	--	--	--	--	--	--
	07-12-90	--	1.2	.30	--	--	2.6	.33	1.4
	07-12-90	--	--	--	--	--	--	--	--
	08-15-90	.14	1.4	.34	3.1	<1.0	1.9	.24	1.7
	08-01-91	--	1.6	.20	--	--	1.8	.23	1.5
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	1.3	.19	--	--	1.5	.19	1.5
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	1.0	.16	--	--	1.7	.22	1.5
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	Th-232	ALUM-	ARSENIC	BARIUM	BERYL-	BISMUTH	CADMIUM	CALCIUM
		2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75936)	INUM BOT MAT <63μ DS LAB PERCENT (34792)	BOT MAT <63μ DS LAB (μg/G) (34802)	BOT MAT <63μ DS LAB (μg/G) (34807)	LIUM BOT MAT <63μ DS LAB (μg/G) (34812)	BOT MAT <63μ DS LAB (μg/G) (34817)	BOT MAT <63μ DS LAB (μg/G) (34827)	BOT MAT <63μ DS LAB PERCENT (34832)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued									
09395350	07-24-89	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--
	07-27-89	--	11	<10	450	2	<10	<2	1.4
	07-28-89	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--
	07-07-90	--	7.6	<10	570	2	<10	<2	1.6
	07-08-90	--	--	--	--	--	--	--	--
	07-08-90	--	11	10	470	3	<10	<2	1.5
	07-08-90	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--
	07-09-90	.22	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--
	07-09-90	.20	7.6	<10	510	2	<10	<2	1.3
	07-12-90	--	--	--	--	--	--	--	--
	07-12-90	.20	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--
	08-15-90	.22	8.2	<10	490	2	<10	<2	1.2
	08-01-91	.19	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	.19	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	.20	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CERIUM	CHRO- MIUM	COBALT	COPPER	EURO- PIUM	GALLIUM	GOLD	HOLMIUM	IRON
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT
		(34837)	(34842)	(34847)	(34852)	(34857)	(34862)	(34872)	(34877)	(34882)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	100	72	12	23	<2	26	<8	<4	3.6
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	07-07-90	88	46	10	20	<2	18	<8	<4	2.7
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	99	54	13	25	2	23	<8	<4	3.7
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	76	38	11	22	<2	16	<8	<4	2.6
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	77	42	10	20	<2	18	<8	<4	2.8
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	LANTHA- NUM	LEAD	LITHIUM	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM	NEODYM- IUM	NICKEL	NIOBIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34887)	(34892)	(34897)	(34902)	(34907)	(34917)	(34922)	(34927)	(34932)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	56	23	48	.99	320	<2	45	25	17
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	46	20	35	.80	320	<2	39	17	14
	07-07-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	53	23	47	1.0	330	<2	45	18	15
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	41	20	32	.71	290	<2	34	13	11
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	42	18	38	.79	270	<2	35	14	9
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PHOS- PHORUS	POTAS- SIUM	SCAN- DIUM	SILVER	SODIUM	STRON- TIUM	TANTA- LUM	THORIUM	TIN
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT	PERCENT	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34937)	(34942)	(34947)	(34957)	(34962)	(34967)	(34977)	(34982)	(34987)
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-27-89	.06	1.9	15	<4	.29	140	<40	17	39
	07-28-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	07-07-90	.06	2.0	11	<4	.66	150	<40	13	<5
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	.07	2.1	15	<4	.34	150	<40	18	<10
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	.05	2.0	10	<4	.52	130	<40	13	<10
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	.05	1.9	12	<4	.40	140	<40	15	<10
	08-01-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	TITA- NIUM	URANIUM	VANA- DIUM	YTTRIUM	YTTER- BIUM	ZINC	SEDI- MENT, SUS- PENDE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	MENT,	
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	SUS-	
		LAB	LAB	LAB	LAB	LAB	LAB	MENT,	
		PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(mg/L)	
		(34992)	(35002)	(35007)	(35012)	(35017)	(35022)	(80154)	
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued									
09395350	07-24-89	--	--	--	--	--	--	115000	--
	07-24-89	--	--	--	--	--	--	80000	--
	07-27-89	.49	<100	110	30	3	99	54500	--
	07-28-89	--	--	--	--	--	--	94300	--
	09-05-89	--	--	--	--	--	--	66800	--
	07-07-90	.41	<100	81	25	3	73	119000	55
	07-08-90	--	--	--	--	--	--	126000	61
	07-08-90	.48	<100	110	30	4	94	56900	--
	07-08-90	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	141000	61
	07-09-90	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	98900	74
	07-09-90	.38	<100	74	25	3	67	238000	--
	07-12-90	--	--	--	--	--	--	213000	48
	07-12-90	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	149000	74
	08-15-90	.38	<100	91	24	3	74	55600	--
	08-01-91	--	--	--	--	--	--	73300	--
	08-02-91	--	--	--	--	--	--	160000	80
	08-02-91	--	--	--	--	--	--	179000	80
	08-02-91	--	--	--	--	--	--	160000	81
	08-02-91	--	--	--	--	--	--	155000	81
	08-02-91	--	--	--	--	--	--	144000	--
	08-02-91	--	--	--	--	--	--	141000	74
	08-02-91	--	--	--	--	--	--	132000	77
	08-06-91	--	--	--	--	--	--	462000	46
	08-06-91	--	--	--	--	--	--	258000	--
	08-06-91	--	--	--	--	--	--	168000	55
	08-06-91	--	--	--	--	--	--	178000	45
	08-06-91	--	--	--	--	--	--	182000	46
	08-06-91	--	--	--	--	--	--	199000	42
	08-06-91	--	--	--	--	--	--	162000	51
	08-07-91	--	--	--	--	--	--	132000	61

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.
		SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.
		FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	
THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	
.002 MM	.004 MM	.008 MM	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM		
(70337)	(70338)	(70339)	(70340)	(70341)	(70342)	(70343)	(70344)	(70345)		
PUERCO RIVER NEAR CHURCH ROCK, NM—Continued										
09395350	07-24-89	50	59	80	80	--	97	100	100	--
	07-24-89	63	76	--	92	--	96	98	100	100
	07-27-89	59	70	--	81	--	85	89	98	100
	07-28-89	58	69	--	88	--	100	100	--	--
	09-05-89	41	49	--	67	--	78	91	100	100
	07-07-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	62	76	83	90	94	94	97	100	100
	07-08-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	43	46	46	59	68	77	91	96	100
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	08-15-90	44	53	59	65	71	75	84	96	100
	08-01-91	41	49	55	67	76	83	91	98	100
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	42	52	55	65	72	80	92	100	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	36	36	40	42	54	64	77	93	100
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09395630	PUERCO RIVER MANUELITO, NEW MEXICO	03-09-89	0815	35°27'43"N	108°56'32"W
		04-05-89	1315		
		04-11-89	1419		
		07-13-89	1400		
		07-27-89	1400		
		07-27-89	1410		
		09-06-89	0110		
		09-06-89	0120		
		09-06-89	0130		
		03-08-90	0950		
		07-13-90	1850		
		07-13-90	1850		
		07-13-90	1900		
		07-13-90	1920		
		07-13-90	1950		
		07-13-90	1950		
		07-13-90	2010		
		07-13-90	2030		
		08-03-90	--		
		08-14-90	2035		
		08-15-90	0800		
		10-20-90	0030		
		10-20-90	0030		
		10-20-90	0100		
		10-20-90	0200		
		10-20-90	0330		
		10-20-90	0330		
		10-20-90	0410		
		06-11-91	--		
		06-12-91	0010		
		06-12-91	0800		
		06-13-91	2120		
		08-02-91	1445		
		08-06-91	0030		
		08-15-91	0800		
		08-26-91	2050		
		08-26-91	2120		
		08-26-91	2200		
		08-26-91	2240		
		08-26-91	2320		
		08-26-91	2400		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD (72000)	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (meters) (00004)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, IN CUBIC METERS PER SECOND (00060)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	TUR- BID- ITY (NTU) (00076)	OXID- ATION RED- UCTION POTEN- TIAL (mV) (00090)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)
PUERCO RIVER MANUELITO, NM—Continued											
09395630	03-09-89	1,890	70	--	--	--	.42	1.05	--	--	--
	04-05-89		--	--	23.5	--	.59	--	260	235	2020
	04-11-89		70	--	21.5	--	E.19	1.06	--	--	1980
	07-13-89		70	--	33.0	--	E.59	1.07	--	--	2090
	07-27-89		70	--	15.0	--	2.0	1.15	--	--	--
	07-27-89		70	--	--	--	2.1	1.15	--	--	--
	09-06-89		50	--	--	32	--	1.68	--	--	--
	09-06-89		50	--	--	--	32.3	--	--	--	--
	09-06-89		50	--	--	--	32.3	--	--	--	--
	03-08-90		--	--	5.0	--	--	--	8.9	--	--
	07-13-90		50	--	--	53	--	1.87	--	--	710
	07-13-90		50	--	--	103	--	2.19	--	--	--
	07-13-90		50	--	--	153	--	2.51	--	--	700
	07-13-90		50	--	--	--	224	2.82	--	--	490
	07-13-90		50	--	--	170	--	2.59	--	--	390
	07-13-90		50	--	--	140	--	2.37	--	--	--
	07-13-90		50	--	--	124	--	2.35	--	--	385
	07-13-90		50	--	--	96	--	2.18	--	--	395
	08-03-90		--	--	--	--	--	--	--	--	--
	08-14-90		70	--	16.0	--	2.27	1.15	--	--	--
	08-15-90		10	--	14.5	--	10.5	1.26	--	--	415
	10-20-90		50	--	--	32	--	1.68	--	--	269
	10-20-90		50	--	--	--	33.7	1.69	--	--	--
	10-20-90		50	--	--	36	--	1.71	--	--	492
	10-20-90		50	--	--	79	--	2.07	--	--	341
	10-20-90		50	--	--	54	--	1.88	--	--	412
	10-20-90		50	--	--	--	50.1	1.85	--	--	--
	10-20-90		50	--	--	47	--	1.82	--	--	489
	06-11-91		--	--	--	--	--	--	--	--	--
	06-12-91		--	--	--	--	--	--	--	--	--
	06-12-91		70	--	--	--	1.6	--	--	--	--
	06-13-91		50	--	--	36	--	1.71	--	--	890
	08-02-91		10	19.4	--	--	2.6	1.17	--	--	--
	08-06-91		50	--	--	42	--	1.77	--	--	1050
	08-15-91		30	--	14.5	--	--	--	--	--	--
	08-26-91		50	--	--	35	--	1.70	--	--	490
	08-26-91		50	--	--	33	--	1.68	--	--	430
	08-26-91		50	--	--	51	--	1.86	--	--	500
	08-26-91		50	--	--	57	--	1.90	--	--	420
	08-26-91		50	--	--	41	--	1.76	--	--	430
	08-26-91		50	--	--	41	--	1.76	--	--	400

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SPE- CIFIC CON- DUCT- ANCE LAB (μ S/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (mg/L) (00340)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LITY WAT DIS FIX END FIELD mg/L as CaCO3 (39036)	ALKA- LITY WAT DIS TOT IT FIELD mg/L as CaCO3 (39086)	ALKA- LITY LAB (mg/L as CaCO3) (90410)	CAR- BONATE WATER DIS IT FIELD mg/L as CO3 (00452)
PUERCO RIVER MANUELITO, NM—Continued										
09395630	03-09-89	1850	--	--	--	--	--	--	--	--
	04-05-89	2070	10.8	69	8.7	8.5	424	424	393	77
	04-11-89	--	--	--	7.8	--	--	--	--	--
	07-13-89	2090	--	--	8.4	--	--	--	--	--
	07-27-89	1080	--	--	--	--	--	--	--	--
	07-27-89	879	--	--	--	--	--	--	--	--
	09-06-89	1340	--	--	--	7.8	--	--	--	--
	09-06-89	1200	--	--	--	--	--	--	--	--
	09-06-89	1080	--	--	--	--	--	--	--	--
	03-08-90	1600	--	--	--	7.4	--	--	249	--
	07-13-90	--	--	--	7.1	--	--	--	--	--
	07-13-90	935	--	--	--	7.1	--	--	191	--
	07-13-90	--	--	--	7.3	--	--	--	--	--
	07-13-90	628	--	--	7.5	7.3	--	--	--	--
	07-13-90	--	--	--	7.6	--	--	--	--	--
	07-13-90	524	--	--	--	7.3	--	--	219	--
	07-13-90	--	--	--	7.6	--	--	--	--	--
	07-13-90	--	--	--	7.6	--	--	--	--	--
	08-03-90	1420	--	--	--	7.9	--	--	262	--
	08-14-90	486	--	--	--	7.3	--	--	317	--
	08-15-90	565	7.5	--	8.8	8.3	94	--	201	--
	10-20-90	--	--	--	7.8	--	--	--	--	--
	10-20-90	456	--	--	--	7.6	--	--	160	--
	10-20-90	--	--	--	7.6	--	--	--	--	--
	10-20-90	519	--	--	7.7	7.7	--	--	92	--
	10-20-90	--	--	--	7.8	--	--	--	--	--
	10-20-90	483	--	--	--	7.7	--	--	144	--
	10-20-90	--	--	--	7.7	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	7.6	--	--	--	--	--
	06-13-91	--	--	--	7.5	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	7.4	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	7.4	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BICAR- BONATE DIS IT FIELD mg/L as HCO3 (00453)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (metric tons per day) (70302)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	
		PUERCO RIVER MANUELITO, NM—Continued									
09395630	03-09-89	--	--	--	--	--	--	--	--	--	
	04-05-89	361	1320	1350	16.1	8.80	.830	16	7.00	8.60	
	04-11-89	--	--	--	--	--	--	--	--	--	
	07-13-89	--	--	--	--	--	--	--	--	--	
	07-27-89	--	--	--	--	--	--	--	--	--	
	07-27-89	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	1.40	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	
	03-08-90	--	1080	1000	--	--	--	--	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	531	517	4744	--	--	--	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	314	322	3791	--	--	--	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	08-03-90	--	906	--	--	--	--	--	--	--	
	08-14-90	--	317	357	62.1	--	--	--	--	--	
	08-15-90	--	269	244	244	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	271	793	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	204	1397	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	296	1279	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	06-11-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO ₄) (00660)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as CA) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)
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PUERCO RIVER MANUELITO, NM—Continued

09395630	03-09-89	--	--	--	--	--	--	--	--	--
	04-05-89	4.40	13	16	34	83	24	5.6	420	20
	04-11-89	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	67	19	4.7	340	18
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	190	59	11	100	3
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	180	55	9.0	63	2
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	140	43	7.3	52	2
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	190	61	9.9	40	1
	08-15-90	--	--	--	--	110	36	5.5	48	2
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	98	31	4.9	52	2
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	77	24	4.1	44	2
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	120	37	6.4	43	2
	10-20-90	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)
PUERCO RIVER MANUELITO, NM—Continued										
09395630	03-09-89	--	--	--	--	--	--	--	--	--
	04-05-89	90	12	120	--	2.2‡	21	460‡	9	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	37	.060	.70	--	480‡	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	03-08-90	90	9.5	110	--	1.6	20	350‡	--	--
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	52	6.2	30	.040	.90	14	180	3	91
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	43	5.7	16	.030	.70	16	73	3	120
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	44	5.4	12	.010	.70	14	55	2	89
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--
	08-03-90	--	5.8	87	.070	1.0	--	300‡	5	--
	08-14-90	30	4.4	7.1	<.010	.50	18	23	8	68
	08-15-90	47	4.2	7.2	.020	.60	10	75	1	59
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	53	3.6	10	.020	.40	8.6	64	1	50
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	54	3.5	9.3	.030	.30	6.6	56	<1	35
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	43	4.3	9.6	.030	.50	8.4	100	1	54
	10-20-90	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	BORON, DIS- SOLVED (µg/L as B) (01020)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	CHRO- MIUM, HEXA- VALENT, DIS. (µg/L as Cr) (01032)	COBALT, DIS- SOLVED (µg/L as Co) (01035)	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	
PUERCO RIVER MANUELITO, NM—Continued											
09395630	03-09-89	--	--	--	--	--	--	--	--	--	
	04-05-89	--	420	<1.0	--	<1	3	12	--	<5	
	04-11-89	--	--	--	--	--	--	--	--	--	
	07-13-89	--	--	--	--	--	--	--	--	--	
	07-27-89	--	--	--	--	--	--	--	--	--	
	07-27-89	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	
	03-08-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	.5	160	<1.0	<5	--	5	<10	59	<10i	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	<.5	140	<1.0	<5	--	<3	<10	32	<10i	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	<.5	110	<1.0	<5	--	<3	<10	20	10†	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	08-03-90	--	--	--	--	--	--	--	--	--	
	08-14-90	<.5	100	<1.0	<5	--	3	<10	1100†	<10i	
	08-15-90	<.5	80	<1.0	<5	--	<3	<10	120	<10i	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	<.5	90	<1.0	<5	--	<3	<10	72	<10i	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	<.5	60	1.0	<5	--	<3	<10	99	<10i	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	<.5	90	<1.0	<5	--	<3	<10	62	<10i	
	10-20-90	--	--	--	--	--	--	--	--	--	
	06-11-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MERCURY DIS- SOLVED ($\mu\text{g/L}$ as Hg) (71890)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)	ALUM- INUM, DIS- SOLVED ($\mu\text{g/L}$ as Al) (01106)
PUERCO RIVER MANUELITO, NM—Continued										
09395630	03-09-89	--	--	--	--	--	--	--	--	--
	04-05-89	--	<.1	--	10	--	320	--	10	10
	04-11-89	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	750‡	--	<10	<10	1.0	700	<6	<3	--
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	190‡	--	<10	<10	1.0	680	<6	<3	--
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	540‡	--	<10	<10	<1.0	560	<6	6	--
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--
	08-14-90	1100‡	--	<10	<10	<1.0	740	<6	<3	--
	08-15-90	82‡	--	<10	<10	<1.0	420	<6	4	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	3	--	<10	<10	<1.0	400	<6	12	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	4	--	<10	<10	<1.0	310	<6	<3	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	3	--	<10	<10	<1.0	490	<6	4	--
	10-20-90	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	GROSS ALPHA, DIS- SOLVED ($\mu\text{g/L}$ as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS ($\mu\text{g/L}$ as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL ($\mu\text{g/L}$ as U-nat) (80040)	GROSS ALPHA SEDI- MENT (pCi/G) (01507)
PUERCO RIVER MANUELITO, NM—Continued										
09395630	03-09-89	--	--	--	--	--	9.1	2.1	.9*	--
	04-05-89	--	<1	-1.40	-91.5	-10.85	2.6	1.2	<.6*	--
	04-11-89	--	--	--	--	--	5.0	1.2	4.1*	--
	07-13-89	--	--	--	--	--	7.6	1.1	84*	--
	07-27-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	12†	2.1	2000*	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	12
	07-13-90	13	<2	--	--	--	4.6	1.3	2500*	--
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	12	<2	--	--	--	--	--	--	8
	07-13-90	--	--	--	--	--	--	--	--	<6
	07-13-90	10	<2	--	--	--	4.4	1.3	3600*	--
	07-13-90	--	--	--	--	--	--	--	--	8
	07-13-90	--	--	--	--	--	--	--	--	11
	08-03-90	--	1	--	--	--	--	--	--	--
	08-14-90	9	<1	--	--	--	--	--	--	--
	08-15-90	8	<1	--	--	--	--	--	--	13
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	8	<1	--	--	--	--	--	--	9
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	7	<1	--	--	--	--	--	--	<6
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	9	<1	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	-93.5	-11.60	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	-54.5	-7.25	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	-31.0	-5.60	--	--	--	11
	08-26-91	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS ALPHA BOT MAT TOT DRY (pCi/G as U-nat) (99920)	ALPHA, 2 SIGMA BOT MAT TOT DRY (µg/G as U-nat) (75965)	GROSS ALPHA BOT MAT DRY WGT (pCi/G as Th-230) (04125)	ALPHA, 2 SIGMA, BOT MAT TOT DRY (pCi/G as Th-230) (75955)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS., (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	
PUERCO RIVER MANUELITO, NM—Continued												
09395630	03-09-89	--	--	--	--	17	3.6	1.2*	11	2.3	1.1*	
	04-05-89	--	--	--	--	20	4.2	<.6*	13	2.8	<.6*	
	04-11-89	--	--	--	--	22	6.6	4.3*	18	5.2	3.4*	
	07-13-89	--	--	--	--	30	7.7	60*	24	6.1	52*	
	07-27-89	--	--	--	--	--	--	--	--	--	--	
	07-27-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	26	3.6	1700*	23	3.2	1600*	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	03-08-90	--	--	--	--	--	--	--	--	--	--	
	07-13-90	--	9.9	--	7.3	--	--	--	--	--	--	
	07-13-90	16.30	9.9	12	7.3	11	2.7	1100*	8.2	2.0	920*	
	07-13-90	--	--	--	--	--	--	--	--	--	--	
	07-13-90	10.80	8.8	8	6.2	--	--	--	--	--	--	
	07-13-90	--	7.8	--	5.6	--	--	--	--	--	--	
	07-13-90	7.83	7.8	6	--	8.0	1.9	1900*	6.2	1.4	1800*	
	07-13-90	12.50	9.5	8	6.1	--	--	--	--	--	--	
	07-13-90	13.70	9.8	11	7.5	--	--	--	--	--	--	
	08-03-90	--	--	--	--	--	--	--	--	--	--	
	08-14-90	--	--	--	--	--	--	--	--	--	--	
	08-15-90	17.40	10	13	7.5	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	--	
	10-20-90	12.80	9.3	9	6.6	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	--	
	10-20-90	3.52	6.5	3	5.0	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	--	
	06-11-91	--	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--	--	--
08-15-91	--	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	--	
08-26-91	15.20	9.6	11	6.8	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BETA, 2 SIGMA SED, SUSP. TOT DRY (pCi/L as Sr-90/ Y-90) (76005)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (04102)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (75966)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Cs-137) (99922)	BETA 2 SIGMA BOT MAT TOT DRY (pCi/G as Cs-137) (99923)	Cs-137 2 SIGMA SOIL, TOTAL, TOTAL, DRY WGT (pCi/G) (04103)	RA-226 SED, SUSP, TOTAL, TOTAL, DRY WGT (pCi/G) (75944)	URANIUM -234 WATER DISSOLV (pCi/L) (22610)	U-234 2 SIGMA WATER, DISS, (pCi/L) (75992)	
PUERCO RIVER MANUELITO, NM—Continued											
09395630	03-09-89	1.0	--	--	--	--	--	--	--	--	
	04-05-89	.60	--	--	--	--	--	--	--	2.1	
	04-11-89	.80	--	--	--	--	--	--	--	4.3	
	07-13-89	7.3	--	--	--	--	--	--	--	--	
	07-27-89	--	--	--	--	--	--	--	--	--	
	07-27-89	--	--	--	--	--	--	--	--	--	
	09-06-89	220	--	--	--	--	--	--	8.5	1.3	
	09-06-89	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	
	03-08-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	--	3.1	--	--	--	1.3	--	--	
	07-13-90	280	8	--	10.50	3.10	--	1.3	--	--	
	07-13-90	--	--	--	--	--	--	--	--	--	
	07-13-90	--	23	5.3	29.20	5.26	--	1.4	--	--	
	07-13-90	--	--	3.0	--	--	--	--	--	--	
	07-13-90	490	8	--	10.10	2.98	--	--	--	--	
	07-13-90	--	9	3.8	11.90	3.83	--	1.2	--	--	
	07-13-90	--	8	3.5	11.10	3.51	--	--	--	--	
	08-03-90	--	--	--	--	--	--	--	--	--	
	08-14-90	--	--	--	--	--	--	--	1.5	.2	
	08-15-90	--	8	3.6	11.00	3.62	--	1.3	1.0	.1	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	--	7	3.4	9.35	3.36	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	--	7	2.8	8.65	2.83	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	
	06-11-91	--	--	--	--	--	--	--	--	--	
	06-12-91	--	--	--	--	--	.03	.010	--	--	
06-12-91	--	--	--	--	--	--	--	--	--		
06-13-91	--	--	--	--	--	--	--	--	--		
08-02-91	--	--	--	--	--	--	--	--	--		
08-06-91	--	--	--	--	--	--	--	--	--		
08-15-91	--	--	--	--	--	--	--	--	--		
08-26-91	--	--	--	--	--	--	--	--	--		
08-26-91	--	--	--	--	--	--	--	--	--		
08-26-91	--	--	--	--	--	--	--	--	--		
08-26-91	--	27	7.7	35.80	7.74	--	--	1.5	--		
08-26-91	--	--	--	--	--	--	--	--	--		
08-26-91	--	--	--	--	--	--	--	--	--		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	U-234	U-234			U-235	U-235			U-238	U-238
		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75941)	URANIUM -235 WATER, DISS (pCi/L) (22620)	U-235 2 SIGMA WATER, DISS, (pCi/L) (75994)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75975)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)	URANIUM -238 WATER DISSOLV (pCi/L) (22603)	U-238 2 SIGMA WATER, DISS, (pCi/L) (75991)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75940)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)
		PUERCO RIVER MANUELITO, NM—Continued									
09395630	03-09-89	--	--	--	--	--	--	--	--	--	--
	04-05-89	--	--	.3	.20	--	--	1.5	.40	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	.6	.30	--	--	7.5	1.2	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	1.2	.30	--	--	<.1	.06	--	--	1.3	--
	07-13-90	1.2	.30	--	--	.1	.06	--	--	1.3	.31
	07-13-90	1.3	.20	--	--	<.1	ND	--	--	1.4	.25
	07-13-90	1.2	.27	--	--	<.1	.06	--	--	1.5	.31
	07-13-90	1.3	.20	--	--	<.1	ND	--	--	1.2	--
	07-13-90	1.3	.24	--	--	.1	.05	--	--	1.2	.23
	07-13-90	1.3	.29	--	--	<.1	.05	--	--	1.0	.25
	07-13-90	1.6	.30	--	--	<.1	ND	--	--	1.2	.26
	08-03-90	--	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	<.1	ND	--	--	.90	.10	--	--
	08-15-90	1.3	.40	<.1	.02	<.1	.04	.80	.11	1.4	.30
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	1.3	.27	--	--	<.1	.05	--	--	1.2	.26
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	1.1	.30	--	--	<.1	ND	--	--	1.3	.28
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	1.0	.22	--	--	<.1	.04	--	--	1.4	.27
	10-20-90	--	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
06-12-91	--	--	--	--	--	--	--	--	--	--	
06-13-91	1.2	.16	--	--	<.1	ND	--	--	1.2	.16	
08-02-91	--	--	--	--	--	--	--	--	--	--	
08-06-91	--	--	--	--	--	--	--	--	--	--	
08-15-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	1.4	.30	--	--	<.1	ND	--	--	1.5	.27	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	URANIUM	URANIUM	Th-230	Th-230	Th-232	Th-232	ALUM-	ARSENIC	BARIUM	BERYL-
		NATURAL DIS- SOLVED ($\mu\text{g/L}$ as U) (22703)	NATURAL 2 SIGMA WATER, DISS, ($\mu\text{g/L}$) (75990)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75952)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75936)	INUM BOT MAT <63 μ DS LAB PERCENT (34792)	BOT MAT <63 μ DS LAB ($\mu\text{g/G}$) (34802)	BOT MAT <63 μ DS LAB ($\mu\text{g/G}$) (34807)	LIUM BOT MAT <63 μ DS LAB ($\mu\text{g/G}$) (34812)
PUERCO RIVER MANUELITO, NM—Continued											
09395630	03-09-89	--	--	--	--	--	--	--	--	--	--
	04-05-89	--	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	1.4	.21	1.3	.19	--	--	--	--
	07-13-90	4.4	--	1.4	.21	1.3	.19	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	1.7	.22	1.7	.21	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	1.3	.19	1.5	.20	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--	--
	08-14-90	1.9	--	--	--	--	--	8.0	<10	660	2
	08-15-90	2.2	<1.0	1.5	.20	1.6	.20	8.6	<10	640	2
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	1.4	.19	1.4	.19	7.2	10	670	2
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	1.5	.30	1.6	.30	6.9	<10	670	2
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	1.5	.20	1.6	.21	7.7	10	640	2
	10-20-90	--	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
06-12-91	--	--	--	--	--	--	--	--	--	--	
06-13-91	--	--	1.4	.19	1.2	.17	--	--	--	--	
08-02-91	--	--	--	--	--	--	--	--	--	--	
08-06-91	--	--	--	--	--	--	--	--	--	--	
08-15-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	1.4	.19	1.2	.17	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	
08-26-91	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BISMUTH	CADMIUM	CALCIUM	CERIUM	CHRO- MIUM	COBALT	COPPER	EURO- PIUM	GALLIUM	GOLD
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34817)	(34827)	(34832)	(34837)	(34842)	(34847)	(34852)	(34857)	(34862)	(34872)
PUERCO RIVER MANUELITO, NM—Continued											
09395630	03-09-89	--	--	--	--	--	--	--	--	--	--
	04-05-89	--	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--	--
	08-14-90	<10	<2	1.0	76	41	12	23	<2	17	<8
	08-15-90	<10	<2	1.1	78	44	12	23	<2	20	<8
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	<10	<2	.98	68	32	11	19	<2	17	<8
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	<10	<2	.86	63	30	11	18	<2	17	<8
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	<10	<2	1.1	69	35	11	20	<2	19	<8
	10-20-90	--	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	HOLMIUM	IRON	LANTHA- NUM	LEAD	LITHIUM	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM	NEODYM- IUM	NICKEL
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34877)	(34882)	(34887)	(34892)	(34897)	(34902)	(34907)	(34917)	(34922)	(34927)
PUERCO RIVER MANUELITO, NM—Continued											
09395630	03-09-89	--	--	--	--	--	--	--	--	--	--
	04-05-89	--	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--	--
	08-14-90	<4	2.8	42	22	31	.68	340	<2	34	14
	08-15-90	<4	3.2	42	23	34	.80	390	<2	34	16
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	<4	2.5	37	22	27	.61	340	<2	28	12
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	<4	2.4	35	17	25	.57	340	<2	28	12
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	<4	2.7	38	19	30	.69	350	<2	31	13
	10-20-90	--	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NIOBIUM	PHOS-	POTAS-	SCAN-	SILVER	SODIUM	STRON-	TANTA-	THORIUM	TIN
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μg/G)	PERCENT	PERCENT	(μg/G)	(μg/G)	PERCENT	(μg/G)	(μg/G)	(μg/G)	(μg/G)
		(34932)	(34937)	(34942)	(34947)	(34957)	(34962)	(34967)	(34977)	(34982)	(34987)
PUERCO RIVER MANUELITO, NM—Continued											
09395630	03-09-89	--	--	--	--	--	--	--	--	--	--
	04-05-89	--	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-13-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--	--
	08-14-90	11	.04	1.9	12	<4	0.54	160	<40	15	<10
	08-15-90	10	.05	1.9	13	<4	0.53	170	<40	15	<10
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	7	.04	2.1	9	<4	0.72	150	<40	10	<5
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	6	.04	2.1	9	<4	0.72	140	<40	12	<5
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	7	.04	2.1	10	<4	0.67	160	<40	12	<5
	10-20-90	--	--	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	06-13-91	--	--	--	--	--	--	--	--	--	--
	08-02-91	--	--	--	--	--	--	--	--	--	--
	08-06-91	--	--	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	TITANIUM	URANIUM	VANADIUM	YTTRIUM	YTTERBIUM	ZINC	SEDIMENT,	SED. SUSP.	SED. SUSP.
		BOT MAT <63μ DS LAB PERCENT (34992)	BOT MAT <63μ DS LAB (μg/G) (35002)	BOT MAT <63μ DS LAB (μg/G) (35007)	BOT MAT <63μ DS LAB (μg/G) (35012)	BOT MAT <63μ DS LAB (μg/G) (35017)	BOT MAT <63μ DS LAB (μg/G) (35022)	SUSPENDED (mg/L) (80154)	SIEVE DIAM. % FINER THAN .062 MM (70331)	FALL DIAM. % FINER THAN .002 MM (70337)
PUERCO RIVER MANUELITO, NM—Continued										
09395630	03-09-89	--	--	--	--	--	--	1140	--	61
	04-05-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	37	--	--
	07-13-89	--	--	--	--	--	--	1990	--	66
	07-27-89	--	--	--	--	--	--	79800	--	60
	07-27-89	--	--	--	--	--	--	81200	--	60
	09-06-89	--	--	--	--	--	--	77200	--	31
	09-06-89	--	--	--	--	--	--	142000	--	36
	09-06-89	--	--	--	--	--	--	116000	--	41
	03-08-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	133000	--	36
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	142000	79	--
	07-13-90	--	--	--	--	--	--	145000	--	39
	07-13-90	--	--	--	--	--	--	146000	60	--
	07-13-90	--	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	130000	--	32
	07-13-90	--	--	--	--	--	--	97900	60	--
	08-03-90	--	--	--	--	--	--	--	--	--
	08-14-90	.43	<100	86	25	3	79	111000	--	19
	08-15-90	.42	<100	97	25	3	93	68200	--	53
	10-20-90	--	--	--	--	--	--	80200	55	--
	10-20-90	.35	<100	73	19	2	72	102000	--	33
	10-20-90	--	--	--	--	--	--	119000	50	--
	10-20-90	.32	<100	69	18	2	69	92500	--	29
	10-20-90	--	--	--	--	--	--	69200	66	--
	10-20-90	.35	<100	79	19	2	77	77200	--	13
	10-20-90	--	--	--	--	--	--	57300	83	--
	06-11-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	26700	100	--
	06-13-91	--	--	--	--	--	--	96600	--	37
	08-02-91	--	--	--	--	--	--	130000	--	58
	08-06-91	--	--	--	--	--	--	264000	68	--
	08-15-91	--	--	--	--	--	--	66500	--	44
	08-26-91	--	--	--	--	--	--	211000	78	--
	08-26-91	--	--	--	--	--	--	197000	75	--
	08-26-91	--	--	--	--	--	--	129000	79	--
	08-26-91	--	--	--	--	--	--	102000	--	46
	08-26-91	--	--	--	--	--	--	107000	74	--
	08-26-91	--	--	--	--	--	--	91600	76	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.
		SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.
		FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
		% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER
		THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN
		.004 MM	.008 MM	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM
		(70338)	(70339)	(70340)	(70341)	(70342)	(70343)	(70344)	(70345)
PUERCO RIVER MANUELITO, NM—Continued									
09395630	03-09-89	76	--	92	--	99	--	--	--
	04-05-89	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--
	07-13-89	79	--	88	--	97	98	100	100
	07-27-89	71	--	90	--	97	100	100	--
	07-27-89	71	--	91	--	97	99	100	100
	09-06-89	37	--	51	--	71	84	99	100
	09-06-89	43	--	58	--	84	96	100	100
	09-06-89	49	--	66	--	89	98	100	--
	03-08-90	--	--	--	--	--	--	--	--
	07-13-90	44	46	57	62	81	96	99	100
	07-13-90	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--
	07-13-90	45	49	59	68	80	93	99	100
	07-13-90	--	--	--	--	--	--	--	--
	07-13-90	--	--	--	--	--	--	--	--
	07-13-90	37	41	48	57	67	85	99	100
	07-13-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
	08-14-90	27	36	45	56	87	98	100	--
	08-15-90	64	66	76	83	90	98	100	--
	10-20-90	--	--	--	--	--	--	--	--
	10-20-90	36	40	45	54	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--
	10-20-90	36	39	45	54	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--
	10-20-90	17	23	33	40	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--
	06-11-91	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--
	06-13-91	46	49	55	70	81	95	99	100
	08-02-91	66	71	81	90	93	98	99	100
	08-06-91	--	--	--	--	--	--	--	--
	08-15-91	54	63	73	83	92	97	100	--
	08-26-91	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--
	08-26-91	48	53	59	70	78	93	99	100
	08-26-91	--	--	--	--	--	--	--	--
	08-26-91	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09395990	BLACK CREEK NEAR HOUCK, ARIZONA	03-09-89	1030	35°17'05"N	109°12'54"W
		08-01-89	1300		
		09-05-89	2020		
		09-05-89	2021		
		09-05-89	2050		
		09-05-89	2051		
		09-05-89	2200		
		09-05-89	2201		
		09-05-89	2321		
		09-06-89	2320		
		03-07-90	1005		
		03-07-90	1130		
		08-14-90	0010		
		03-06-91	0950		
		03-06-91	1100		
		03-06-91	1320		
		03-06-91	1600		
		07-25-91	--		
		07-25-91	1640		
		07-26-91	1400		
		08-07-91	0010		
		08-07-91	1215		
		08-07-91	1250		
		08-08-91	--		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (meters) (00004)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	1823	70	--	--	.40	.54	--	--	--
	08-01-89		70	--	--	2.1	.74	--	--	--
	09-05-89		50	--	--	17.5	1.28	--	819	--
	09-05-89		50	--	--	17.5	--	--	--	--
	09-05-89		50	--	--	5.6	.94	--	690	--
	09-05-89		50	--	--	5.6	--	--	--	--
	09-05-89		50	--	--	4.4	.89	--	530	--
	09-05-89		50	--	--	4.4	--	--	--	--
	09-05-89		50	--	--	3.7	--	--	--	--
	09-06-89		50	--	--	3.7	.84	--	454	--
	03-07-90		70	--	6.0	.09	.48	--	--	--
	03-07-90		70	3.5	6.0	.09	.48	--	--	--
	08-14-90		--	--	--	--	--	--	--	--
	03-06-91		50	--	--	E3.4	--	--	--	--
	03-06-91		50	--	--	E4.5	--	--	--	--
	03-06-91		50	--	--	E4.0	--	--	--	--
	03-06-91		50	--	--	E3.7	--	--	--	--
	07-25-91		--	--	--	--	--	--	--	--
	07-25-91		50	--	--	14.3	--	--	--	--
	07-26-91		10	10.4	--	1.2	.61	772	727	--
	08-07-91		--	--	--	--	--	--	--	--
	08-07-91		10	--	19.5	4.1	.87	585	722	7.3
	08-07-91		50	--	19.5	4.1	.87	729	--	--
	08-08-91		--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LINITY WAT DIS TOT IT FIELD mg/L as CaCO ₃ (39086)	BICAR- BONATE WATER DIS IT FIELD mg/L as HCO ₃ (00453)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (tons per day) (70302)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as N) (00618)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	7.7	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	7.7	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	7.7	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	7.7	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	8.1	8.0	122	--	461	50.7	.450	.170	1.43
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	7.6	7.6	117	143	401	157	.340	.060	1.24
	08-07-91	7.7	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as NO2) (71856)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO4) (00660)	HARD- NESS TOTAL (mg/L as CaCO3) (00900)
		BLACK CREEK NEAR HOUCK, AZ—Continued								
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	09-05-89	.410	--	--	--	--	--	--	--	200
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	.300	--	--	--	--	--	--	--	170
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	.310	--	--	--	--	--	--	--	140
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	.280	--	--	--	--	--	--	--	120
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	1.60	6.3	.56	61	.220	18.0	.100	.31	160
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	1.30	5.5	.20	60	.160	10.0	.040	.12	160
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	09-05-89	54	15	91	3	49	5.1	59	.13	.50
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	48	12	80	3	50	4.9	46	.11	.50
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	38	9.6	62	2	49	4.4	30	.070	.50
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	33	8.3	48	2	46	4.1	21	.080	.60
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	44	12	87	3	53	7.4	48	.64	.50
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	45	11	68	2	47	6.3	40	1.7	.50
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)	CADMIUM DIS- SOLVED (μg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (μg/L as Cr) (01030)	COBALT, DIS- SOLVED (μg/L as Co) (01035)	COPPER, DIS- SOLVED (μg/L as Cu) (01040)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	09-05-89	12	170	--	160	<.5	<1.0	<5	3	<10
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	12	130	--	120	<.5	<1.0	<5	<3	<10
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	11	94	--	130	<.5	<1.0	<5	4	<10
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	9.9	78	--	120	<.5	<1.0	<5	<3	<10
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	10	170	2	80	<.5	<1.0	<5	<3	20
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	11	140	4	61	<.5	<1.0	<5	<3	20
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	09-05-89	110	<10i	790†	<10	<10	<1.0	600	<6	24
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	100	20†	690†	<10	<10	1.0	520	<6	14
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	87	<10i	490†	10	<10	1.0	410	<6	20
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	100	<10i	390†	<10	<10	<1.0	350	<6	17
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	68	<10i	2	<10	<10	<1.0	500	<6	19
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	210	<10i	7	<10	<10	<1.0	480	7	8
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	GROSS ALPHA, DIS- SOLVED ($\mu\text{g/L}$ as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS ($\mu\text{g/L}$ as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL ($\mu\text{g/L}$ as U-nat) (80040)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA, WATER, DISS, (pCi/L as Cs-137) (75989)
-------------------	------	---	--	--	--	---	--	---	--	--

BLACK CREEK NEAR HOUCK, AZ—Continued

09395990	03-09-89	--	--	--	--	12†	2.4	<.6*	13	2.6
	08-01-89	--	--	--	--	3.5	1.0	510*	23	2.8
	09-05-89	14	--	--	--	7.5	1.4	590*	6.9	1.4
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	13	--	--	--	1.2	3.8	560*	7.4	1.6
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	11	--	--	--	6.5	1.4	930*	5.7	1.3
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	8	--	--	--	4.4	1.2	1100*	4.9	1.6
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	17	1	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	15	1	--	--	--	--	--	--	--
	08-07-91	--	--	-53.0	-8.40	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DIS- SOLVED (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED,SUSP. TOT DRY (pCi/G as Sr-90 Y-90) (76005)	Cs-137 SOIL, TOTAL, DRY WGT (pCi/G) (76007)	Cs-137 2 SIGMA SOIL, TOTAL, DRY WGT (pCi/G) (04103)	U-234 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	U-234 2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75941)
-------------------	------	--	--	---	--	---	--	---	---	--

BLACK CREEK NEAR HOUCK, AZ—Continued

09395990	03-09-89	.7*	9.1	1.8	.7*	.60	--	--	--	--
	08-01-89	940*	18	2.3	830*	120	--	--	--	--
	09-05-89	2500*	6.4	1.3	2300*	300	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	3200*	6.4	1.4	2700*	400	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	1800*	4.9	1.1	1500*	230	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	1600*	4.0	1.3	1400*	200	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	.03	.010	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	--	--	--	--	--	--	--	1.2	.20
	08-07-91	--	--	--	--	--	.17	.020	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	U-235	U-235	U-238	U-238	Th-230	Th-230	Th-232	Th-232	ALUM- INUM
		2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75975)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75940)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75952)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75936)	<63µ DS LAB PERCENT (34792)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	7.8
	09-05-89	--	--	--	--	--	--	--	--	8.6
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	8.4
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	8.4
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	9.2
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	<.03	<.1	1.3	.17	1.4	.20	1.6	.23	9.8
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ARSENIC	BARIUM	BERYL-	BISMUTH	CADMIUM	CALCIUM	CERIUM	CHRO-	COBALT
		BOT MAT	BOT MAT	LIUM	BOT MAT	BOT MAT	BOT MAT	BOT MAT	MIUM	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)
		(34802)	(34807)	(34812)	(34817)	(34827)	(34832)	(34837)	(34842)	(34847)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	<10	590	2	<10	<2	2.4	87	52	13
	09-05-89	<10	570	2	<10	<2	1.6	83	50	12
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	<10	560	2	<10	<2	1.6	81	49	13
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	<10	570	2	<10	<2	1.5	80	46	12
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	<10	560	2	<10	<2	1.5	83	51	12
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	<10	500	2	<10	<2	2.3	80	60	14
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	COPPER	EURO- PIUM	GALLIUM	GOLD	HOLMIUM	IRON	LANTHA- NUM	LEAD	LITHIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)
		(34852)	(34857)	(34862)	(34872)	(34877)	(34882)	(34887)	(34892)	(34897)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	24	<2	18	<8	<4	2.9	45	17	36
	09-05-89	24	<2	21	<8	<4	2.9	44	21	36
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	25	<2	20	<8	<4	2.9	43	22	35
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	23	<2	20	<8	<4	2.8	42	22	34
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	25	<2	22	<8	<4	3.1	45	22	37
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	24	<2	24	<8	<4	3.4	45	25	45
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM	NEODYM- IUM	NICKEL	NIOBIUM	PHOS- PHORUS	POTAS- SIUM	SCAN- DIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	PERCENT	(μ g/G)
		(34902)	(34907)	(34917)	(34922)	(34927)	(34932)	(34937)	(34942)	(34947)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	1.1	430	<2	38	22	13	.05	2.0	11
	09-05-89	.96	400	<2	36	20	14	.05	2.0	12
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	.94	400	<2	38	20	14	.05	2.0	12
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	.90	380	<2	36	19	13	.04	2.0	12
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	.97	400	<2	40	20	14	.05	2.0	13
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	1.4	510	<2	38	25	19	.06	2.1	14
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SILVER	SODIUM	STRON- TIUM	TANTA- LUM	THORIUM	TIN	TITA- NIUM	URANIUM	VANA- DIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μg/G)	PERCENT	(μg/G)	(μg/G)	(μg/G)	(μg/G)	PERCENT	(μg/G)	(μg/G)
		(34957)	(34962)	(34967)	(34977)	(34982)	(34987)	(34992)	(35002)	(35007)
BLACK CREEK NEAR HOUCK, AZ—Continued										
09395990	03-09-89	--	--	--	--	--	--	--	--	--
	08-01-89	<4	.53	170	<40	13	<5	.38	<100	81
	09-05-89	<4	.44	150	<40	15	<10	.38	<100	87
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	<4	.45	150	<40	15	<10	.38	<100	85
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	<4	.45	150	<40	14	<10	.36	<100	82
	09-05-89	--	--	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--	--	--
	09-06-89	<4	.37	150	<40	17	<10	.40	<100	93
	03-07-90	--	--	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--	--	--
	07-26-91	<4	.31	180	<40	15	<5	.38	<100	100
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-07-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	YTTRIUM	YTTER-	ZINC	SEDI-	SED.	SED.	SED.
		BOT MAT	BIUM	BOT MAT	MENT,	SUSP.	SUSP.	SUSP.
		<63 μ DS	<63 μ DS	<63 μ DS	SUS-	SIEVE	SIEVE	FALL
		LAB	LAB	LAB	PENDED	DIAM.	DIAM.	DIAM.
		(μ g/G)	(μ g/G)	(μ g/G)	(mg/L)	% FINER	% FINER	% FINER
		(35012)	(35017)	(35022)	(80154)	.062 MM	.125 MM	.002 MM
						(70331)	(70332)	(70337)
BLACK CREEK NEAR HOUCK, AZ—Continued								
09395990	03-09-89	--	--	--	--	--	--	--
	08-01-89	24	2	68	37100	--	--	--
	09-05-89	25	3	78	71800	97	--	--
	09-05-89	--	--	--	74500	--	--	--
	09-05-89	25	3	76	73300	96	--	--
	09-05-89	--	--	--	74200	--	--	--
	09-05-89	24	3	74	62100	97	--	--
	09-05-89	--	--	--	61100	--	--	--
	09-05-89	--	--	--	46100	--	--	--
	09-06-89	25	3	84	47100	97	--	--
	03-07-90	--	--	--	330	97	--	--
	03-07-90	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--
	03-06-91	--	--	--	15100	99	100	64
	03-06-91	--	--	--	30500	89	--	--
	03-06-91	--	--	--	22600	93	--	--
	03-06-91	--	--	--	21600	91	--	--
	07-25-91	--	--	--	137000	--	--	--
	07-25-91	--	--	--	32600	100	--	--
	07-26-91	25	2	91	--	100	--	72
	08-07-91	--	--	--	--	--	--	--
	08-07-91	--	--	--	59500	--	--	55
	08-07-91	--	--	--	--	--	--	68
	08-08-91	--	--	--	78500	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED.	SED.	SED.	SED.	SED.	SED.	SED.
		SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.
		FALL	FALL	FALL	FALL	FALL	FALL	FALL
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
		% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER
		THAN	THAN	THAN	THAN	THAN	THAN	THAN
		.004 MM	.008 MM	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM
		(70338)	(70339)	(70340)	(70341)	(70342)	(70343)	(70344)
BLACK CREEK NEAR HOUCK, AZ—Continued								
09395990	03-09-89	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--
	09-05-89	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--
	03-07-90	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--
	03-06-91	77	89	97	99	--	--	--
	03-06-91	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--
	03-06-91	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--
	07-25-91	--	--	--	--	--	--	--
	07-26-91	81	92	95	98	--	--	--
	08-07-91	--	--	--	--	--	--	--
	08-07-91	61	64	74	84	92	98	100
	08-07-91	70	76	82	90	97	99	100
	08-08-91	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09396100	PUERCO RIVER NEAR CHAMBERS, ARIZONA	02-15-89	1400	35°10'40"N	109°27'15"W
		08-01-89	0050		
		08-01-89	0130		
		08-01-89	0230		
		08-01-89	0710		
		08-01-89	0810		
		08-01-89	0820		
		08-01-89	1030		
		08-01-89	1320		
		08-01-89	1630		
		08-18-89	2359		
		08-18-89	2400		
		09-06-89	1440		
		09-06-89	1441		
		09-06-89	1510		
		09-06-89	1511		
		09-06-89	1515		
		09-06-89	1516		
		02-21-90	1255		
		03-06-90	0930		
		07-11-90	1300		
		07-11-90	1320		
		07-11-90	1325		
		07-16-90	1300		
		08-15-90	0250		
		08-15-90	0310		
		08-15-90	1135		
		08-15-90	1145		
		08-15-90	1820		
		08-16-90	0930		
		08-16-90	0935		
		09-05-90	1430		
		10-19-90	0010		
		10-20-90	0720		
		10-20-90	0800		
		01-07-91	1140		
		01-16-91	1415		
		02-09-91	1005		
		03-05-91	0935		
		06-12-91	1415		
		08-08-91	1015		
		08-27-91	0001		
		08-27-91	0002		
		08-27-91	1630		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (meters) (00004)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	OXID- ATION RED- UCTION POTEN- TIAL (mV) (00090)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	1739	70	--	12.0	E.7	.59	--	--	--
	08-01-89		50	--	--	E64	1.00	--	--	--
	08-01-89		50	--	--	E37	.84	--	--	--
	08-01-89		50	--	--	27	.79	--	--	--
	08-01-89		50	--	--	E24	.74	--	--	--
	08-01-89		50	--	--	27	.79	--	--	--
	08-01-89		50	--	--	E24	.74	--	--	--
	08-01-89		50	--	--	13	--	--	--	--
	08-01-89		50	--	--	E28	.77	--	--	--
	08-01-89		50	--	24.5	4.3	.49	--	--	--
	08-18-89		50	--	--	5.7	.92	--	--	--
	08-18-89		50	--	--	E5.7	.90	--	--	--
	09-06-89		50	--	--	E3.1	.47	--	--	1590
	09-06-89		50	--	--	3.1	--	--	--	--
	09-06-89		50	--	24.5	5.3	.52	--	--	1630
	09-06-89		50	--	--	5.3	--	--	--	--
	09-06-89		70	35.1	24.5	E4.2	.51	--	1200	1630
	09-06-89		2000	--	--	4.2	--	--	--	--
	02-21-90		70	--	2.0	E.2	.38	--	--	--
	03-06-90		70	.6	3.0	E.03	--	--	--	--
	07-11-90		70	--	27.0	2.5	--	--	--	--
	07-11-90		10	--	27.0	2.5	.52	--	2090	1980
	07-11-90		2000	--	--	2.5	--	--	--	--
	07-16-90		70	--	--	.8	--	--	--	--
	08-15-90		50	--	--	67	1.09	--	950	1020
	08-15-90		50	--	--	67	--	--	--	--
	08-15-90		70	--	--	27	.77	--	980	889
	08-15-90		70	--	--	25	--	--	--	--
	08-15-90		70	--	--	7.9	.57	--	860	927
	08-16-90		70	--	--	4.7	.51	--	720	720
	08-16-90		70	--	--	4.7	--	--	--	--
	09-05-90		70	--	--	.2	--	--	--	--
	10-19-90		--	--	--	--	--	--	--	--
	10-20-90		50	--	--	62	--	--	--	--
	10-20-90		50	--	--	125	1.59	22	--	1210
	01-07-91		70	--	--	3	.47	--	--	--
	01-16-91		70	--	--	.6	.37	--	--	--
	02-09-91		70	--	--	1.7	.43	--	--	--
	03-05-91		70	--	--	2.0	--	--	--	--
	06-12-91		70	46.3	16.5	10.7	.48	--	1360	--
	08-08-91		10	--	22.0	2.1	--	--	--	--
	08-27-91		8010	--	--	--	--	--	--	--
	08-27-91		8010	--	--	--	--	--	--	--
	08-27-91		--	--	--	9.4	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	OXYGEN, DIS- SOLVED (mg/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LINITY LAB (mg/L as CaCO ₃) (90410)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (metric tons per day) (70302)	NITROGEN NO ₂ +NO ₃ DIS- SOLVED (mg/L as N) (00631)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	8.1	--	--	--	--	.490	370
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	7.9	--	--	--	--	.500	370
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	4.9	7.9	7.9	--	--	--	--	.370	370
	09-06-89	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	07-11-90	5.3	7.1	7.3	251	1320	1400	291	--	400
	07-11-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	7.8	7.4	293	606	666	3491	--	210
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	8.1	7.3	222	515	526	1188	--	180
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	7.8	7.4	258	503	541	345	--	190
	08-16-90	--	7.6	7.5	233	392	428	161	--	110
	08-16-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	7.5	164	--	755	8127	--	260
	01-07-91	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--
	02-09-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	7.4	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	7.8	--	--	--	--	--	--	--
	08-27-91	--	7.6	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES—Continued

[illegible]

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SILICA, DIS- SOLVED (mg/L as SiO2) (00955)	SULFATE DIS- SOLVED (mg/L as SO4) (00945)	ARSENIC DIS- SOLVED (µg/L as As) (01000)	BARIUM, DIS- SOLVED (µg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (µg/L as Be) (01010)	BORON, DIS- SOLVED (µg/L as B) (01020)	CADMIUM DIS- SOLVED (µg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr) (01030)	COBALT, DIS- SOLVED (µg/L as Co) (01035)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	09-06-89	11	480‡	--	150	<.5	--	<1.0	<5	<3
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	11	500‡	--	160	<.5	--	<1.0	<5	<3
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	9.4	510‡	--	150	<.5	--	<1.0	<5	<3
	09-06-89	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	07-11-90	11	710‡	1	170	<.5	380	1.0	<5	<3
	07-11-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	08-15-90	12	240	2	160	<.5	210	<1.0	<5	<3
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	10	190	1	110	<.5	170	<1.0	<5	<3
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	10	190	1	120	<.5	150	<1.0	<5	<3
	08-16-90	9.7	130	1	99	<.5	180	<1.0	<5	<3
	08-16-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	8.3	350‡	2	110	<.5	170	3.0	<5	<3
	01-07-91	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--
	02-09-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	COPPER, DIS- SOLVED ($\mu\text{g/L}$ as Cu) (01040)	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	09-06-89	<10	28	<10i	190‡	<10	<10	1.0	1400	<6
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	<10	20	<10i	140‡	<10	<10	<1.0	1500	<6
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	<10	18	<10i	22	10	<10	<1.0	1500	<6
	09-06-89	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	07-11-90	<10	260	<10i	270‡	10	<10	<1.0	1600	<6
	07-11-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	08-15-90	<10	130	<10i	600‡	<10	<10	<1.0	860	<6
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	<10	210	<10i	560‡	<10	<10	<1.0	730	<6
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	<10	210	<10i	620‡	<10	<10	<1.0	760	<6
	08-16-90	<10	110	20‡	160‡	<10	<10	<1.0	500	<6
	08-16-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	<10	38	<10i	290‡	10	<10	1.0	1100	<6
	01-07-91	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--
	02-09-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ZINC, DIS- SOLVED (µg/L as Zn) (01090)	LITHIUM DIS- SOLVED (µg/L as Li) (01130)	SELE- NIUM, DIS- SOLVED (µg/L as Se) (01145)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	GROSS ALPHA, DIS- SOLVED (µg/L as U-Nat) (80030)	ALPHA, 2 SIGMA, WAT DIS (µg/L as U-Nat) (75986)	GROSS ALPHA, SUSP. TOTAL (µg/L as U-Nat) (80040)	GROSS ALPHA SEDIM- ENT (pCi/G) (01507)	GROSS ALPHA BOT MAT TOT DRY (µg/G as U-Nat) (99920)	
		PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	7.8	2.1	1.7*	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	8.0	1.5	370*	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	6.9	1.1	2200*	--	--	
	08-01-89	--	--	--	--	--	7.0	1.3	840*	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	11†	1.8	540*	--	--	
	08-01-89	--	--	--	--	--	11†	1.8	2200*	--	--	
	08-01-89	--	--	--	--	--	3.8	.80	690*	--	--	
	08-18-89	--	--	--	--	--	--	--	--	--	--	
	08-18-89	--	--	--	--	--	13†	2.4	1800*	--	--	
	09-06-89	5	24	--	--	--	6.7	1.5	1900*	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	17	23	--	--	--	5.0	1.1	1000*	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	11	24	--	--	--	6.6	1.3	230*	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	02-21-90	--	--	--	--	--	--	--	--	--	--	
	03-06-90	--	--	--	--	--	--	--	--	--	--	
	07-11-90	--	--	--	--	--	--	--	--	--	--	
	07-11-90	39	34	<1	--	--	21†	3.2	2400*	--	--	
	07-11-90	--	--	--	--	--	--	--	--	--	--	
	07-16-90	--	--	--	--	--	--	--	--	--	--	
	08-15-90	11	16	<1	-90.5	-12.75	--	--	--	--	13	18.90
	08-15-90	--	--	--	--	--	--	--	--	--	--	--
	08-15-90	8	12	<1	-97.5	-13.95	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--	--	--
	08-15-90	8	13	<1	-95.5	-13.65	--	--	--	--	7	10.20
	08-16-90	6	9	<1	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--	--	--
	10-20-90	7	14	<1	--	--	--	--	--	--	<6	5.00
	01-07-91	--	--	--	--	--	--	--	--	--	--	--
01-16-91	--	--	--	--	--	--	--	--	--	--	--	
02-09-91	--	--	--	--	--	--	--	--	--	--	--	
03-05-91	--	--	--	--	--	--	--	--	--	--	--	
06-12-91	--	--	--	--	--	--	--	--	--	--	--	
08-08-91	--	--	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALPHA, 2 SIGMA, BOT MAT TOT DRY	GROSS ALPHA, BOT MAT DRY WGT	ALPHA 2 SIGMA, BOT MAT TOT DRY	GROSS BETA, DIS- SOLVED	BETA, 2 SIGMA, WATER, DISS,	GROSS BETA, SUSP. TOTAL	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90)	BETA, 2 SIGMA, WATER, DISS, (pCi/L as Sr-90/ Y-90)	GROSS BETA SUSP. TOTAL (pCi/L as Sr-90/ Y-90)	BETA, 2 SIGMA, SED, SUSP. TOT DRY (pCi/G as Sr-90/ Y-90)
		(μg/G)	(pCi/G)	(pCi/G)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/L)	(pCi/G)
		MAT U	as	as	as	as	as	as	as	as	as
		(75965)	Th-230	Th-230	Cs-137	Cs-137	Cs-137	Sr-90/ Y-90	Sr-90/ Y-90	Sr-90/ Y-90	Sr-90/ Y-90

PUERCO RIVER NEAR CHAMBERS, AZ—Continued

09396100	02-15-89	--	--	--	17	3.4	2.6*	11	2.1	2.5*	.90
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	9.7	2.4	520*	8.4	2.0	450*	68
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	8.7	1.5	2400*	8.0	1.4	2100*	300
	08-01-89	--	--	--	7.0	1.3	1900*	6.1	1.1	1700*	240
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	7.3	1.7	330*	6.0	1.4	290*	54
	08-01-89	--	--	--	8.6	1.7	3100*	7.5	1.5	2700*	370
	08-01-89	--	--	--	8.1	1.6	1300*	7.3	1.4	1100*	150
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	13	2.4	4500*	11	2.1	3900*	580
	09-06-89	--	--	--	5.4	2.1	3600*	4.9	1.9	3100*	530
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	6.1	2.3	5200*	5.3	2.0	4500*	670
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	6.9	1.5	7000*	6.1	1.3	6000*	960
	09-06-89	--	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	29	5.9	2000*	22	4.4	1500*	530
	07-11-90	--	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	11	13	7.8	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	8.4	7	5.9	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	7.4	4	5.5	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--	--
	02-09-91	--	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS BETA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (04102)	BETA, 2 SIGMA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (75966)	GROSS BETA BOT MAT TOT DRY (pCi/G as Cs-137) (99922)	BETA, 2 SIGMA, BOT MAT TOT DRY (pCi/G as Cs-137) (99923)	Cs-137 SOIL, TOTAL, TOTAL, DRY WGT (pCi/G) (76007)	Cs-137 2 SIGMA, SOIL, TOTAL, DRY WGT (pCi/G) (04103)	Ra-226 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75944)	URANIUM -234 WATER DISSOLV (pCi/L) (22610)	U-234 2 SIGMA, WATER, DISS, (pCi/L) (75992)	U-234 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	
		PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	.09	.030	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-18-89	--	--	--	--	--	--	--	--	--	--	
	08-18-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	02-21-90	--	--	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	.09	.050	--	--	9.3	1.0	--
	07-11-90	--	--	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--	--	--
	08-15-90	23	5.4	29.70	5.420	--	--	--	1.3	--	--	1.2
	08-15-90	--	--	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--	--	--
	08-15-90	24	5.5	30.60	5.450	--	--	--	1.7	--	--	1.4
	08-16-90	--	--	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	.08	.050	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--	--	--
	10-20-90	7	3.3	9.18	3.340	--	--	--	--	--	--	.1
01-07-91	--	--	--	--	--	--	--	--	--	--	--	
01-16-91	--	--	--	--	--	--	--	--	--	--	--	
02-09-91	--	--	--	--	--	--	--	--	--	--	--	
03-05-91	--	--	--	--	--	--	--	--	--	--	--	
06-12-91	--	--	--	--	--	--	--	--	--	--	--	
08-08-91	--	--	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	U-234			U-235	U-235			U-238	U-238	U-238	URANIUM
		2 SIGMA, SED, SUSP, TOTAL, DRY WGT (pCi/G) (75941)	URANIUM -235 WATER, DISS (pCi/L) (22620)	U-235 2 SIGMA, WATER, DISS, (pCi/L) (75994)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75975)	2 SIGMA, SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)	URANIUM -238 WATER DISSOLV (pCi/L) (22603)	U-238 2 SIGMA, WATER, DISS, (pCi/L) (75991)	U-238 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75940)	2 SIGMA, SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)	URANIUM NATURAL DIS- SOLVED (μg/L as U) (22703)	
PUERCO RIVER NEAR CHAMBERS, AZ—Continued												
09396100	02-15-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-01-89	--	--	--	--	--	--	--	--	--	--	
	08-18-89	--	--	--	--	--	--	--	--	--	--	
	08-18-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	09-06-89	--	--	--	--	--	--	--	--	--	--	
	02-21-90	--	--	--	--	--	--	--	--	--	--	
	03-06-90	--	--	--	--	--	--	--	--	--	--	
	07-11-90	--	--	--	--	--	--	--	--	--	--	
	07-11-90	--	.3	ND	--	--	6.8	.70	--	--	13	
	07-11-90	--	--	--	--	--	--	--	--	--	--	
	07-16-90	--	--	--	--	--	--	--	--	--	--	
	08-15-90	.30	--	--	<.1	ND	--	--	1.4	.29	--	
	08-15-90	--	--	--	--	--	--	--	--	--	--	
	08-15-90	--	--	--	--	--	--	--	--	--	--	
	08-15-90	--	--	--	--	--	--	--	--	--	--	
	08-15-90	.20	--	--	<.1	ND	--	--	1.4	.17	--	
	08-16-90	--	--	--	--	--	--	--	--	--	--	
	08-16-90	--	--	--	--	--	--	--	--	--	--	
	09-05-90	--	--	--	--	--	--	--	--	--	--	
	10-19-90	--	--	--	--	--	--	--	--	--	--	
	10-20-90	--	--	--	--	--	--	--	--	--	--	
	10-20-90	.14	--	--	<.1	.02	--	--	1.3	.16	--	
	01-07-91	--	--	--	--	--	--	--	--	--	--	
	01-16-91	--	--	--	--	--	--	--	--	--	--	
	02-09-91	--	--	--	--	--	--	--	--	--	--	
	03-05-91	--	--	--	--	--	--	--	--	--	--	
	06-12-91	--	--	--	--	--	--	--	--	--	--	
	08-08-91	--	--	--	--	--	--	--	--	--	--	
	08-27-91	--	--	--	--	--	--	--	--	--	--	
	08-27-91	--	--	--	--	--	--	--	--	--	--	
	08-27-91	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	Th-230	Th-230	Th-232	Th-232	ALUM-	ARSENIC	BARIUM	BERYL-	BISMUTH	CADMIUM
		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA, SED, SUSP. TOTAL, DRY WGT (pCi/G) (75952)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)	2 SIGMA, SED, SUSP. TOTAL, DRY WGT (pCi/G) (75936)	INUM BOT MAT <63μ DS LAB PERCENT (34792)	BOT MAT <63μ DS LAB (μg/G) (34802)	BOT MAT <63μ DS LAB (μg/G) (34807)	LIUM BOT MAT <63μ DS LAB (μg/G) (34812)	BOT MAT <63μ DS LAB (μg/G) (34817)	BOT MAT <63μ DS LAB (μg/G) (34827)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued											
09396100	02-15-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	8.6	<10	560	2	<10	<2
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	8.6	<10	550	2	<10	<2
	09-06-89	--	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	8.3	<10	570	2	<10	<2
	09-06-89	--	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	10	10	550	2	<10	<2
	07-11-90	--	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	1.4	.40	1.5	.40	7.7	<10	610	2	<10	<2
	08-15-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	9.3	<10	580	2	<10	<2
	08-15-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	2.2	.27	2.3	.29	9.6	<10	560	2	<10	<2
	08-16-90	--	--	--	--	10	<10	500	2	<10	<2
	08-16-90	--	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--	--
	10-20-90	1.7	.22	1.5	.21	5.7	<10	660	1	<10	<2
	01-07-91	--	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--	--
	02-09-91	--	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CALCIUM	CERIUM	CHRO-	COBALT	COPPER	EURO-	GALLIUM	GOLD	HOLMIUM
		BOT MAT	BOT MAT	MIUM	BOT MAT	BOT MAT	PIUM	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	BOT MAT	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)
		(34832)	(34837)	(34842)	(34847)	(34852)	(34857)	(34862)	(34872)	(34877)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	09-06-89	1.6	78	45	12	25	<2	21	<8	<4
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	1.6	78	45	12	23	<2	21	<8	<4
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	1.5	77	47	12	22	<2	20	<8	<4
	09-06-89	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	07-11-90	2.2	86	50	14	25	<2	24	<8	<4
	07-11-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	08-15-90	2.1	70	45	12	22	<2	17	<8	<4
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	1.8	78	50	14	24	<2	22	<8	<4
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	1.7	83	50	13	23	2	22	<8	<4
	08-16-90	1.9	75	52	14	23	<2	23	<8	<4
	08-16-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	1.9	57	36	8	17	<2	13	<8	<4
	01-07-91	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--
	02-09-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--
08-27-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	IRON	LANTHA-	LEAD	LITHIUM	MAGNE-	MANGA-	MOLYB-	NEODYM-	NICKEL
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34882)	(34887)	(34892)	(34897)	(34902)	(34907)	(34917)	(34922)	(34927)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	09-06-89	3.0	42	22	36	.89	390	<2	35	17
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	3.0	41	22	36	.87	380	<2	36	18
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	2.9	41	23	35	.85	380	<2	34	18
	09-06-89	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	07-11-90	3.8	46	27	46	1.3	450	<2	39	20
	07-11-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	08-15-90	2.9	38	20	34	1.0	450	<2	31	19
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	3.5	42	23	41	1.1	430	<2	36	17
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	3.4	45	22	41	1.0	420	<2	38	18
	08-16-90	3.8	42	20	45	1.3	470	<2	33	21
	08-16-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	1.9	32	18	23	.61	350	<2	24	11
	01-07-91	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--
02-09-91	--	--	--	--	--	--	--	--	--	
03-05-91	--	--	--	--	--	--	--	--	--	
06-12-91	--	--	--	--	--	--	--	--	--	
08-08-91	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NIOBIUM	PHOS-	POTAS-	SCAN-	SILVER	SODIUM	STRON-	TANTA-	THORIUM
		BOT MAT	PHORUS	SIUM	DIUM	BOT MAT	BOT MAT	TIUM	LUM	BOT MAT
		<63μ DS	BOT MAT	SIUM	DIUM	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μg/G)	PERCENT	PERCENT	(μg/G)	(μg/G)	PERCENT	(μg/G)	(μg/G)	(μg/G)
		(34932)	(34937)	(34942)	(34947)	(34957)	(34962)	(34967)	(34977)	(34982)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	09-06-89	14	.05	1.9	12	<4	.46	170	<40	13
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	13	.05	1.9	12	<4	.45	170	<40	15
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	13	.05	1.9	12	<4	.48	170	<40	14
	09-06-89	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	07-11-90	12	.07	2.0	14	<4	.41	210	<40	16
	07-11-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	08-15-90	9	.05	2.0	11	<4	.55	180	<40	13
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	9	.05	1.9	14	<4	.40	190	<40	15
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	11	.05	1.9	15	<4	.36	190	<40	17
	08-16-90	11	.05	1.9	16	<4	.29	200	<40	15
	08-16-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	6	.04	2.0	7	<4	.81	170	<40	10
	01-07-91	--	--	--	--	--	--	--	--	--
01-16-91	--	--	--	--	--	--	--	--	--	
02-09-91	--	--	--	--	--	--	--	--	--	
03-05-91	--	--	--	--	--	--	--	--	--	
06-12-91	--	--	--	--	--	--	--	--	--	
08-08-91	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	
08-27-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.
		SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.
		FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	
THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	
.002 MM	.004 MM	.008 MM	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM		
(70337)	(70338)	(70339)	(70340)	(70341)	(70342)	(70343)	(70344)	(70345)		
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	45	55	65	75	80	84	92	100	100
	09-06-89	--	--	--	--	--	--	--	--	--
	09-06-89	43	51	61	69	77	80	92	100	--
	09-06-89	--	--	--	--	--	--	--	--	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	07-11-90	53	63	72	79	83	86	93	99	100
	07-11-90	48	57	66	72	76	79	90	99	100
	07-16-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-16-91	--	--	--	--	--	--	--	--	--
	02-09-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	06-12-91	--	--	--	--	--	--	--	--	--
	08-08-91	62	76	78	88	91	95	99	100	--
	08-27-91	--	--	--	--	--	--	--	--	--
	08-27-91	--	--	--	--	--	--	--	--	--
08-27-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	TIN	TITA- NIUM	URANIUM	VANA- DIUM	YTTRIUM	YTTER- BIUM	ZINC	SED1- MENT,	SED. SUSP.
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	SUS- PENDED	SIEVE DIAM.
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	(mg/L)	% FINER
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	(70331)	THAN
		(μg/G)	PERCENT	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)		
		(34987)	(34992)	(35002)	(35007)	(35012)	(35017)	(35022)	(80154)	(70331)
PUERCO RIVER NEAR CHAMBERS, AZ—Continued										
09396100	02-15-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	303000	60
	08-01-89	--	--	--	--	--	--	--	181000	85
	08-01-89	--	--	--	--	--	--	--	168000	74
	08-01-89	--	--	--	--	--	--	--	73500	90
	08-01-89	--	--	--	--	--	--	--	70200	98
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	--	--
	08-01-89	--	--	--	--	--	--	--	103000	93
	08-01-89	--	--	--	--	--	--	--	95800	95
	08-18-89	--	--	--	--	--	--	--	164000	--
	08-18-89	--	--	--	--	--	--	--	177000	84
	09-06-89	<10	.38	<100	91	25	3	81	147000	91
	09-06-89	--	--	--	--	--	--	--	157000	--
	09-06-89	<10	.37	<100	89	24	3	81	165000	--
	09-06-89	--	--	--	--	--	--	--	169000	--
	09-06-89	<10	.36	<100	87	24	8	79	180000	--
	09-06-89	--	--	--	--	--	--	--	184000	--
	02-21-90	--	--	--	--	--	--	--	--	--
	03-06-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	146000	83
	07-11-90	<10	.43	<100	100	28	3	92	143000	--
	07-11-90	--	--	--	--	--	--	--	159000	--
	07-16-90	--	--	--	--	--	--	--	63200	98
	08-15-90	<10	.38	<100	81	23	3	68	172000	77
	08-15-90	--	--	--	--	--	--	--	212000	61
	08-15-90	<10	.44	<100	110	25	3	92	139000	73
	08-15-90	--	--	--	--	--	--	--	113000	88
	08-15-90	<10	.45	<100	100	27	3	90	95300	93
	08-16-90	<10	.43	<100	110	25	3	90	67500	93
	08-16-90	--	--	--	--	--	--	--	69100	92
	09-05-90	--	--	--	--	--	--	--	21200	99
	10-19-90	--	--	--	--	--	--	--	--	--
	10-20-90	--	--	--	--	--	--	--	154000	75
	10-20-90	<5	.30	<100	52	18	2	47	229000	60
	01-07-91	--	--	--	--	--	--	--	9810	--
	01-16-91	--	--	--	--	--	--	--	6410	--
	02-09-91	--	--	--	--	--	--	--	20400	--
	03-05-91	--	--	--	--	--	--	--	29200	--
	06-12-91	--	--	--	--	--	--	--	77600	99
	08-08-91	--	--	--	--	--	--	--	84500	--
	08-27-91	--	--	--	--	--	--	--	717000	--
	08-27-91	--	--	--	--	--	--	--	433000	--
	08-27-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09386950	ZUNI RIVER ABOVE BLACKROCK RESEVOIR	11-06-88	1510	35°06'03"N	108°45'00"W
		01-25-89	1300		
		03-08-89	1545		
		03-22-89	1145		
		04-11-89	1655		
		07-26-89	0110		
		07-26-89	0110		
		07-26-89	0140		
		07-26-89	0200		
		07-26-89	0220		
		07-26-89	0240		
		07-26-89	0320		
		07-26-89	0400		
		07-26-89	0600		
		07-26-89	0640		
		07-26-89	0720		
		07-26-89	0800		
		07-26-89	0840		
		07-26-89	1600		
		11-14-89	1450		
		01-04-90	1300		
		03-19-90	1530		
		09-25-90	1315		
		12-05-90	1030		
		02-26-91	1500		
		04-04-91	1520		
		04-04-91	1520		
		04-04-91	1720		
		04-04-91	1930		
		04-04-91	2120		
		04-04-91	2320		
		04-05-91	0120		
		04-05-91	0320		
		04-05-91	0520		
		04-05-91	0720		
		04-05-91	0920		
		04-05-91	1120		
		04-05-91	1403		
		04-05-91	1430		
		05-14-91	1030		
		09-06-91	0915		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (meters above NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, IN CUBIC METERS PER SECOND (00060)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	TUR- BID- ITY (NTU) (00076)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88		--	2.0	--	.06	--	--	650	678
	01-25-89		--	14.5	--	.13	--	--	--	--
	03-08-89		70	--	--	.11	.87	--	680	--
	03-22-89		70	5.5	--	.09	.85	--	--	--
	04-11-89		70	16.0	--	.06	.80	--	605	--
	07-26-89		50	--	5.7	--	1.25	--	472	312
	07-26-89		50	--	9.1	--	1.26	--	--	--
	07-26-89		50	--	21.4	--	1.53	--	419	--
	07-26-89		50	--	18.2	--	1.48	--	--	--
	07-26-89		50	--	15.2	--	1.42	--	300	--
	07-26-89		50	--	13.8	--	1.39	--	287	--
	07-26-89		50	--	9.5	--	1.30	--	270	--
	07-26-89		50	--	7.4	--	1.25	--	242	--
	07-26-89		50	--	3.4	--	1.11	--	243	--
	07-26-89		50	--	3.6	--	1.12	--	243	--
	07-26-89		50	--	3.2	--	1.10	--	230	--
	07-26-89		50	--	2.7	--	1.09	--	224	--
	07-26-89		50	--	2.4	--	1.07	--	227	--
	07-26-89		10	15.0	--	.42	1.00	--	220	217
	11-14-89		--	6.0	--	.01	--	--	900	895
	01-04-90		--	0.5	--	.01	--	--	--	1250
	03-19-90		--	12.5	--	.04	--	--	730	819
	09-25-90		--	14.0	--	.01	--	--	365	405
	12-05-90		--	1.0	--	.01	--	--	810	937
	02-26-91		--	6.0	--	.04	--	--	710	712
	04-04-91		50	--	1.7	--	1.04	--	780	--
	04-04-91		--	--	--	--	--	--	--	--
	04-04-91		50	--	2.1	--	1.06	--	790	--
	04-04-91		50	--	2.3	--	1.07	--	575	--
	04-04-91		50	--	2.5	--	1.08	--	550	--
	04-04-91		50	--	2.9	--	1.09	--	510	--
	04-05-91		50	--	3.1	--	1.10	--	505	--
	04-05-91		50	--	3.2	--	1.10	--	500	--
	04-05-91		50	--	3.4	--	1.11	--	480	--
	04-05-91		50	--	3.4	--	1.11	--	480	--
	04-05-91		50	--	3.4	--	1.11	--	490	--
	04-05-91		50	--	3.4	--	1.11	--	420	--
	04-05-91		50	--	4.0	--	1.14	--	490	507
	04-05-91		20	--	--	4.13	1.14	--	491	504
	05-14-91		--	12.5	--	.02	--	--	710	731
	09-06-91		10	16.0	--	.40	.93	930	340	377

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	OXYGEN, DIS- SOLVED (mg/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LITY WAT DIS FIX END FIELD mg/L as CaCO3 (39036)	ALKA- LITY WAT DIS TOT IT FIELD mg/L as CaCO3 (39086)	ALKA- LITY LAB (mg/L as CaCO3) (90410)	CAR- BONATE WATER DIS IT FIELD mg/L as CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD mg/L as HCO3 (00453)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	--	8.4	8.1	--	262	264	17	285	--
	01-25-89	9.2	7.9	--	--	232	--	--	283	--
	03-08-89	--	8.0	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	7.8	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	7.1	7.6	--	--	--	--	--	--	--
	11-14-89	10.3	8.4	8.2	--	321	282	12	367	--
	01-04-90	10.5	8.1	8.0	--	428	391	--	522	--
	03-19-90	9.7	8.2	8.1	--	262	265	--	320	--
	09-25-90	6.4	8.1	7.7	--	148	146	--	181	--
	12-05-90	11.8	8.3	8.2	--	378	355	14	432	--
	02-26-91	11.6	8.6	8.4	--	282	275	19	305	--
	04-04-91	--	8.7	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	8.2	--	--	--	--	--	--	--
	04-04-91	--	8.5	--	--	--	--	--	--	--
	04-04-91	--	8.5	--	--	--	--	--	--	--
	04-04-91	--	8.3	--	--	--	--	--	--	--
	04-05-91	--	8.5	--	--	--	--	--	--	--
	04-05-91	--	8.5	--	--	--	--	--	--	--
	04-05-91	--	8.6	--	--	--	--	--	--	--
	04-05-91	--	8.6	--	--	--	--	--	--	--
	04-05-91	--	8.6	--	--	--	--	--	--	--
	04-05-91	--	8.5	--	--	--	--	--	--	--
	04-05-91	--	8.3	7.9	--	--	147	--	--	312
	04-05-91	--	8.0	7.9	--	--	148	--	--	311
	05-14-91	8.5	8.0	8.1	--	286	277	--	349	--
	09-06-91	6.8	7.9	7.6	101	--	108	--	--	240

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (metric tons per day) (70302)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	413	2.09	240	56	24	63	2	36	4.3
	01-25-89	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	130	39	8.5	35	1	--	--
	07-26-89	--	--	100	31	5.7	17	.7	--	--
	07-26-89	--	--	110	34	6.5	23	.9	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	85	26	4.7	13	.6	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	90	28	4.8	13	.6	--	--
	11-14-89	554	.20	260	58	28	100	3	45	4.5
	01-04-90	818	.78	380	93	35	140	3	44	14
	03-19-90	532	1.74	280	72	24	80	2	38	4.4
	09-25-90	243	.17	100	30	6.5	43	2	46	6.0
	12-05-90	617	.32	300	72	30	110	3	44	4.4
	02-26-91	450	1.40	240	63	20	72	2	39	4.0
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	314	108.8	170	42	15	40	1	33	6.3
	04-05-91	314	111.6	170	42	15	40	1	33	6.2
	05-14-91	458	.60	200	38	25	94	3	50	3.9
	09-06-91	230	8.46	120	36	6.6	28	1	33	7.1

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	ARSENIC TOTAL (μg/L as As) (01002)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	16	--	.30	14	78	1	1	--	--
	01-25-89	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	7.8	--	--	--	190	<.5
	07-26-89	--	--	--	7.4	--	--	--	140	<.5
	07-26-89	--	--	--	7.5	--	--	--	160	<.5
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	7.4	--	--	--	120	<.5
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	9.6	--	--	--	95	<.5
	11-14-89	29	--	.40	12	130	1	1	--	--
	01-04-90	46	--	.50	23	210	<1	<1	--	--
	03-19-90	20	--	.20	14	160	<1	1	--	--
	09-25-90	16	--	.40	7.9	44	<1	1	--	--
	12-05-90	29	--	.20	15	130	1	<1	--	--
	02-26-91	23	--	.30	--	99	<1	<1	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	14	.070	.30	7.6	100	1	--	77	<.5
	04-05-91	13	.080	.30	7.7	100	1	--	76	<.5
	05-14-91	25	--	.40	4.0	96	<1	<1	--	--
	09-06-91	11	.030	.40	8.6	71	<1	--	70	<.5

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BORON, DIS- SOLVED ($\mu\text{g/L}$ as B) (01020)	CADMIUM DIS- SOLVED ($\mu\text{g/L}$ as Cd) (01025)	CHRO- MIUM, DIS- SOLVED ($\mu\text{g/L}$ as Cr) (01030)	COBALT, DIS- SOLVED ($\mu\text{g/L}$ as Co) (01035)	COPPER, DIS- SOLVED ($\mu\text{g/L}$ as Cu) (01040)	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MERCURY DIS- SOLVED ($\mu\text{g/L}$ as Hg) (71890)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued											
09386950	11-06-88	90	2.0	<1	--	<1	13	<5	--	<.1	--
	01-25-89	--	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	<1.0	<5	<3	<10	41	10†	730†	--	<10
	07-26-89	--	<1.0	<5	<3	10	40	<10†	510†	--	<10
	07-26-89	--	<1.0	<5	<3	<10	49	20†	610†	--	<10
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	<1.0	<5	<3	<10	23	<10†	470†	--	<10
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	<1.0	<5	<3	<10	47	<10†	31	--	<10
	11-14-89	120	<1.0	<1	--	3	14	<1	--	<.1	--
	01-04-90	140	<1.0	1	--	<10	24	<10†	--	<.1	--
	03-19-90	90	<1.0	<5	--	<10	10	<10†	--	<.1	--
	09-25-90	280	<1.0	<1	--	5	85	<1	--	<.1	--
	12-05-90	120	<1.0	<1	--	3	8	<1	--	.1	--
	02-26-91	70	<1.0	<1	--	1	12	1	--	<.1	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	60	<1.0	<5	<3	<10	10	<10†	<1	--	<10
	04-05-91	60	<1.0	<5	<3	<10	10	<10†	1	--	<10
	05-14-91	120	<1.0	<1	--	<1	11	1	--	.1	--
	09-06-91	70	<1.0	<5	<3	<10	74	<10†	<1	--	<10

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STROM- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)	SELE- NIUM, TOTAL ($\mu\text{g/L}$ as Se) (01147)	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	TRITIUM TOTAL (pCi/L) (07000)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued											
09386950	11-06-88	--	--	--	--	8	--	<1	<1	--	--
	01-25-89	--	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	<10	1.0	300	<6	10	6	--	--	--	--
	07-26-89	<10	1.0	220	<6	4	4	--	--	-1.20	52
	07-26-89	<10	<1.0	250	<6	5	5	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	<10	2.0	180	<6	5	4	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	<10	<1.0	180	<6	13	<4	--	--	--	--
	11-14-89	--	--	--	--	6	--	<1	<1	--	--
	01-04-90	--	--	--	--	5	--	1	1	--	--
	03-19-90	--	--	--	--	5	--	<1	<1	--	--
	09-25-90	--	--	--	--	6	--	<1	<1	--	--
	12-05-90	--	--	--	--	4	--	<1	<1	--	--
	02-26-91	--	--	--	--	3	--	<1	<1	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	<10	<1.0	370	<6	<3	5	<1	--	--	--
	04-05-91	<10	<1.0	370	<6	<3	6	<1	--	--	--
	05-14-91	--	--	--	--	5	--	<1	<1	--	--
	09-06-91	<10	<1.0	300	<6	8	5	<1	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS ALPHA, DIS- SOLVED (μg/L	ALPHA, COUNT, 2 SIGMA WAT DIS (μg/L	GROSS ALPHA, SUSP. TOTAL (μg/L	GROSS ALPHA SED1- MENT (pCi/G)	GROSS ALPHA BOT MAT TOT DRY (μg/G	2 SIGMA SED, BOT MAT TOT DRY (μg/G	GROSS ALPHA SED BOT MAT TOT DRY (pCi/G	2 SIGMA SED, BOT MAT TOT DRY (pCi/G	GROSS BETA, DIS- SOLVED (pCi/L	BETA, 2 SIGMA WATER, DISS, (pCi/L	
		as	as	as	as	as	as	as	as	as	as	
		U-nat)	U-nat)	U-nat)	(pCi/G)	U-nat)	U-nat)	Th-230)	Th-230)	Cs-137)	Cs-137)	
		(80030)	(75986)	(80040)	(01507)	(99920)	(75965)	(04125)	(75955)	(03515)	(75989)	
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued												
09386950	11-06-88	--	--	--	--	--	--	--	--	--	--	
	01-25-89	--	--	--	--	--	--	--	--	--	--	
	03-08-89	3.7	1.3	1.0*	--	--	--	--	--	6.4	1.6	
	03-22-89	4.2	1.4	<.6*	--	--	--	--	--	5.4	1.5	
	04-11-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	.4	--	890*	--	--	--	--	--	13	--	
	07-26-89	1.5	.50	930*	--	--	--	--	--	8.2	1.2	
	07-26-89	2.7	.60	1200*	--	--	--	--	--	5.8	.90	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	1.4	.50	1200*	--	--	--	--	--	7.8	1.2	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	--	--	--	--	--	--	--	--	--	--	
	07-26-89	.7	.50	900*	--	--	--	--	--	7.2	1.1	
	11-14-89	--	--	--	--	--	--	--	--	--	--	
	01-04-90	--	--	--	--	--	--	--	--	--	--	
	03-19-90	--	--	--	--	--	--	--	--	--	--	
	09-25-90	--	--	--	--	--	--	--	--	--	--	
	12-05-90	--	--	--	--	--	--	--	--	--	--	
	02-26-91	--	--	--	--	--	--	--	--	--	--	
	04-04-91	--	--	--	--	--	--	--	--	--	--	
	04-04-91	--	--	--	<6	6.60	6.9	<6	5.1	--	--	
	04-04-91	--	--	--	--	--	--	--	--	--	--	
	04-04-91	--	--	--	--	--	--	--	--	--	--	
	04-04-91	--	--	--	--	--	--	--	--	--	--	
	04-04-91	--	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	--	
	04-05-91	3.8	1.2	--	--	--	--	--	--	--	9.3	1.7
	04-05-91	2.8	1.1	--	--	--	--	--	--	--	8.8	2.0
	05-14-91	--	--	--	--	--	--	--	--	--	--	--
	09-06-91	1.0	.60	--	--	--	--	--	--	--	8.5	1.9

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS. (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP, TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA 2 SIGMA SED,SUSP, TOT DRY (pCi/G as Sr-90/ Y-90) (76005)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (04102)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Y-90) (75966)	GROSS BETA BOT MAT TOT DRY (pCi/G as Cs-137) (99922)	BETA 2 SIGMA BOT MAT TOT DRY (pCi/G as Cs-137) (99923)	Ra-226 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75944)

ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued

09386950	11-06-88	--	--	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--	--	--
	03-08-89	1.1*	4.7	1.2	1.1*	.70	--	--	--	--	--
	03-22-89	.9*	4.0	1.1	.9*	.60	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	1300*	10	--	1200*	--	--	--	--	--	--
	07-26-89	520*	6.8	1.0	480*	61	--	--	--	--	--
	07-26-89	910*	5.2	.80	840*	110	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	380*	6.3	.90	410*	45	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	150*	5.8	.90	160*	23	--	--	--	--	--
	11-14-89	--	--	--	--	--	--	--	--	--	--
	01-04-90	--	--	--	--	--	--	--	--	--	--
	03-19-90	--	--	--	--	--	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--	--	--
	12-05-90	--	--	--	--	--	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	21	6.6	29.00	6.55	1.0
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	7.0	1.3	--	--	--	--	--	--	--
	04-05-91	--	6.2	1.1	--	--	--	--	--	--	--
	05-14-91	--	--	--	--	--	--	--	--	--	--
	09-06-91	--	7.0	1.6	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	URANIUM	U-234	U-234	U-234	URANIUM	U-235	U-235	U-235	URANIUM	U-238
		-234 WATER DISSOLV (pCi/L) (22610)	2 SIGMA WATER, DISS, (pCi/L) (75992)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75941)	-235 WATER, DISS (pCi/L) (22620)	2 SIGMA WATER, DISS, (pCi/L) (75994)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75975)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)	-238 WATER DISSOLV (pCi/L) (22603)	2 SIGMA WATER, DISS, (pCi/L) (75991)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued											
09386950	11-06-88	--	--	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--	--
	11-14-89	--	--	--	--	--	--	--	--	--	--
	01-04-90	--	--	--	--	--	--	--	--	--	--
	03-19-90	--	--	--	--	--	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--	--	--
	12-05-90	--	--	--	--	--	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	.9	.10	--	--	<.1	ND	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	1.3	.20	--	--	<.1	ND	--	--
	04-05-91	--	--	1.1	.10	--	--	<.1	ND	--	--
	05-14-91	--	--	--	--	--	--	--	--	--	--
	09-06-91	.40	<.1	1.3	.30	<.1	ND	ND	ND	.30	<.06

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	U-238	U-238	Th-230	Th-230	Th-232	Th-232	ALUM-	ARSENIC	BARIUM
		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75940)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75952)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75936)	INUM BOT MAT <63μ DS LAB PERCENT (34792)	BOT MAT <63μ DS LAB (μg/G) (34802)	BOT MAT <63μ DS LAB (μg/G) (34807)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	--	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	10	<10	540
	07-26-89	--	--	--	--	--	--	11	10	560
	07-26-89	--	--	--	--	--	--	10	<20	560
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	11	10	570
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	11	<20	550
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	12	10	550
	07-26-89	--	--	--	--	--	--	12	<10	540
	11-14-89	--	--	--	--	--	--	--	--	--
	01-04-90	--	--	--	--	--	--	--	--	--
	03-19-90	--	--	--	--	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--	--
	12-05-90	--	--	--	--	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	1.1	.14	1.6	.20	1.5	.19	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	1.3	--	--	--	--	--	--	--	--
	04-05-91	1.2	--	--	--	--	--	--	--	--
	05-14-91	--	--	--	--	--	--	--	--	--
	09-06-91	1.0	.27	1.5	.24	1.8	.28	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BERYL- LIUM	BISMUTH	CADMIUM	CALCIUM	CERIUM	CHRO- MIUM	COBALT	COPPER	EURO- PIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34812)	(34817)	(34827)	(34832)	(34837)	(34842)	(34847)	(34852)	(34857)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	--	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-26-89	2	<10	<2	1.1	86	50	13	27	<2
	07-26-89	2	10	2	.74	92	54	14	26	2
	07-26-89	2	<10	<2	.87	90	55	13	27	<2
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	2	10	2	.74	94	55	14	27	2
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	3	<10	<2	.67	91	52	13	26	<2
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	3	10	2	.67	93	56	14	25	2
	07-26-89	3	<10	<2	.66	92	57	14	26	<2
	11-14-89	--	--	--	--	--	--	--	--	--
	01-04-90	--	--	--	--	--	--	--	--	--
	03-19-90	--	--	--	--	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--	--
	12-05-90	--	--	--	--	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	05-14-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GALLIUM	GOLD	HOLMIUM	IRON	LANTHA- NUM	LEAD	LITHIUM	MAGNE- SIUM	MANGA- NESE
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)
		(34862)	(34872)	(34877)	(34882)	(34887)	(34892)	(34897)	(34902)	(34907)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	--	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-26-89	23	<8	<4	3.5	47	28	41	.84	380
	07-26-89	26	8	4	3.7	50	28	43	.80	360
	07-26-89	24	<8	<4	3.7	49	34	42	.82	390
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	25	8	4	3.6	50	27	42	.79	370
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	26	<8	<4	3.8	50	29	44	<.80	360
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	27	8	4	4.0	50	28	46	.83	340
	07-26-89	29	<8	<4	4.1	50	27	47	.85	340
	11-14-89	--	--	--	--	--	--	--	--	--
	01-04-90	--	--	--	--	--	--	--	--	--
	03-19-90	--	--	--	--	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--	--
	12-05-90	--	--	--	--	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	05-14-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	MOLYB- DENUM	NEODYM- IUM	NICKEL	NIOBIUM	PHOS- PHORUS	POTAS- SIUM	SCAN- DIUM	SILVER	SODIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μg/G)	(μg/G)	(μg/G)	(μg/G)	PERCENT	PERCENT	(μg/G)	(μg/G)	PERCENT
		(34917)	(34922)	(34927)	(34932)	(34937)	(34942)	(34947)	(34957)	(34962)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	--	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-26-89	<2	39	20	15	.05	1.8	14	<4	.30
	07-26-89	2	40	20	17	.05	1.8	15	2	.24
	07-26-89	<2	40	18	18	.05	1.8	15	<4	.28
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	2	40	18	16	.05	1.8	15	2	.28
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	<2	41	19	17	.05	1.8	16	<4	.20
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	2	40	20	17	.05	1.8	16	2	.16
	07-26-89	<2	39	22	17	.05	1.8	17	<4	.12
	11-14-89	--	--	--	--	--	--	--	--	--
	01-04-90	--	--	--	--	--	--	--	--	--
	03-19-90	--	--	--	--	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--	--
	12-05-90	--	--	--	--	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
05-14-91	--	--	--	--	--	--	--	--	--	
09-06-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	STRON- TIUM	TANTA- LUM	THORIUM	TIN	TITA- NIUM	URANIUM	VANA- DIUM	YTTRIUM	YTTER- BIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34967)	(34977)	(34982)	(34987)	(34992)	(35002)	(35007)	(35012)	(35017)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued										
09386950	11-06-88	--	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--	--
	03-08-89	--	--	--	--	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--	--
	04-11-89	--	--	--	--	--	--	--	--	--
	07-26-89	120	<40	17	<10	.47	<100	100	29	3
	07-26-89	110	40	17	10	.49	100	110	29	3
	07-26-89	110	<40	17	<10	.49	<100	110	29	3
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	110	40	18	10	.50	100	110	30	3
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	100	<40	18	<10	.49	<100	110	30	3
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	100	40	18	10	.50	100	120	30	3
	07-26-89	100	<40	--	<10	.49	<100	110	29	3
	11-14-89	--	--	--	--	--	--	--	--	--
	01-04-90	--	--	--	--	--	--	--	--	--
	03-19-90	--	--	--	--	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--	--
	12-05-90	--	--	--	--	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	05-14-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ZINC	SEDI-	SED.	SED.	SED.	SED.	SED.	SED.
		BOT MAT <63 μ DS LAB (μ g/G) (35022)	MENT, SUS- PENDE (mg/L) (80154)	SIEVE DIAM. % FINER THAN .062 MM (70331)	FALL DIAM. % FINER THAN .002 MM (70337)	FALL DIAM. % FINER THAN .004 MM (70338)	FALL DIAM. % FINER THAN .016 MM (70340)	FALL DIAM. % FINER THAN .062 MM (70342)	FALL DIAM. % FINER THAN .125 MM (70343)
ZUNI RIVER NEAR BLACKROCK RESEVOIR—Continued									
09386950	11-06-88	--	--	--	--	--	--	--	--
	01-25-89	--	--	--	--	--	--	--	--
	03-08-89	--	846	86	--	--	--	--	--
	03-22-89	--	--	--	--	--	--	--	--
	04-11-89	--	625	44	--	--	--	--	--
	07-26-89	110	15600	--	67	80	97	100	100
	07-26-89	95	15500	--	67	80	97	100	100
	07-26-89	92	17600	--	--	--	--	--	--
	07-26-89	--	15600	--	--	--	--	--	--
	07-26-89	92	17400	94	--	--	--	--	--
	07-26-89	--	14100	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--
	07-26-89	95	16700	--	--	--	--	--	--
	07-26-89	--	14500	--	--	--	--	--	--
	07-26-89	--	14900	--	--	--	--	--	--
	07-26-89	--	14400	--	--	--	--	--	--
	07-26-89	--	14500	--	--	--	--	--	--
	07-26-89	100	13400	96	--	--	--	--	--
	07-26-89	92	11800	100	83	93	97	--	--
	11-14-89	--	87	87	--	--	--	--	--
	01-04-90	--	160	43	--	--	--	--	--
	03-19-90	--	81	82	--	--	--	--	--
	09-25-90	--	--	--	--	--	--	--	--
	12-05-90	--	215	49	--	--	--	--	--
	02-26-91	--	--	--	--	--	--	--	--
	04-04-91	--	821	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--
	04-04-91	--	418	--	--	--	--	--	--
	04-04-91	--	266	--	--	--	--	--	--
	04-04-91	--	255	--	--	--	--	--	--
	04-04-91	--	218	--	--	--	--	--	--
	04-05-91	--	221	--	--	--	--	--	--
	04-05-91	--	202	--	--	--	--	--	--
	04-05-91	--	173	--	--	--	--	--	--
	04-05-91	--	156	--	--	--	--	--	--
	04-05-91	--	164	--	--	--	--	--	--
04-05-91	--	206	--	--	--	--	--	--	
04-05-91	--	210	98	--	--	--	--	--	
04-05-91	--	186	98	--	--	--	--	--	
05-14-91	--	47	82	--	--	--	--	--	
09-06-91	--	1210	99	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09394500	LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA	03-14-89	1520	34°46'58"W	110°02'37"W
		07-23-89	--		
		07-23-89	0810		
		07-23-89	0850		
		07-23-89	0910		
		07-23-89	0911		
		07-23-89	0930		
		07-23-89	0950		
		07-23-89	1010		
		07-23-89	1011		
		07-23-89	1030		
		07-23-89	1050		
		07-23-89	1110		
		07-23-89	1130		
		07-23-89	1131		
		07-23-89	1150		
		07-23-89	1210		
		07-23-89	1230		
		07-23-89	1231		
		07-23-89	1250		
		07-23-89	1310		
		07-23-89	1330		
		07-23-89	1331		
		07-23-89	1350		
		07-23-89	1410		
		07-23-89	1510		
		07-23-89	1511		
		07-23-89	1512		
		07-23-89	1513		
		08-18-89	--		
		08-18-89	1500		
		08-18-89	1740		
		08-18-89	1741		
		08-18-89	1830		
		08-18-89	1930		
		08-18-89	2030		
		08-18-89	2031		
		08-18-89	2130		
		08-18-89	2230		
		08-18-89	2231		
		08-18-89	2232		
		08-19-89	1410		
		08-19-89	1415		
		08-19-89	1423		
		08-19-89	1428		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (METERS) (00065)	SPE- CIFIC CON- DUCT- ANCE LAB (mS/cm) (90095)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	HARD- NESS TOTAL (mg/L as CaCO3) (00900)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued										
09394500	03-14-89	1564	70	12.0	.057	1.55	--	--	--	--
	07-23-89	--	--	--	23.4	2.59	--	--	--	--
	07-23-89	50	--	--	20.5	2.50	--	--	--	--
	07-23-89	50	--	--	24.3	2.61	--	--	--	--
	07-23-89	50	--	--	28.2	2.72	--	--	--	--
	07-23-89	50	--	--	28.2	2.72	--	--	--	--
	07-23-89	50	--	--	33.1	2.86	--	--	--	--
	07-23-89	50	--	--	36.5	2.94	--	--	--	--
	07-23-89	50	--	--	39.9	3.02	--	--	--	--
	07-23-89	50	--	--	39.9	3.02	--	--	--	--
	07-23-89	50	--	--	41.6	3.12	--	--	--	--
	07-23-89	50	--	--	44.2	3.12	--	--	--	--
	07-23-89	50	--	--	44.5	3.13	--	--	--	--
	07-23-89	50	--	--	45.6	3.34	--	--	--	--
	07-23-89	50	--	--	45.6	3.34	--	--	--	--
	07-23-89	50	--	--	45.3	3.15	--	--	--	--
	07-23-89	50	--	--	43.6	3.11	--	--	--	--
	07-23-89	50	--	--	41.6	3.06	--	--	--	--
	07-23-89	50	--	--	41.6	3.06	--	--	--	--
	07-23-89	50	--	--	39.4	3.01	--	--	--	--
	07-23-89	50	--	--	35.7	2.92	--	--	--	--
	07-23-89	50	--	--	32.3	2.83	--	--	--	--
	07-23-89	50	--	--	32.3	2.83	--	--	--	--
	07-23-89	50	--	--	27.8	2.71	--	--	--	--
	07-23-89	50	--	--	23.6	2.59	--	--	--	--
	07-23-89	50	--	--	15.0	2.32	--	--	--	--
	07-23-89	50	--	--	15.0	2.32	--	--	--	--
	07-23-89	3000	--	--	15.0	2.32	--	--	--	--
	07-23-89	3000	--	--	15.0	2.32	--	--	--	--
	08-18-89	--	--	--	26.8	2.68	489	7.9	.180	17
	08-18-89	50	--	--	13.4	2.50	--	--	--	--
	08-18-89	50	--	--	25.1	2.63	355	6.8	<.100	10
	08-18-89	50	--	--	25.1	2.63	--	--	--	--
	08-18-89	50	--	--	28.6	2.73	--	--	--	--
	08-18-89	50	--	--	30.1	2.77	--	--	--	--
	08-18-89	50	--	--	30.6	2.78	--	--	--	--
	08-18-89	50	--	--	30.6	2.78	--	--	--	--
	08-18-89	50	--	--	29.5	2.75	--	--	--	--
	08-18-89	50	--	--	26.3	2.67	--	--	--	--
	08-18-89	50	--	--	26.3	2.67	--	--	--	--
	08-18-89	50	--	--	26.3	2.67	--	--	--	--
	08-19-89	20	21.0	20.9	20.9	2.44	--	--	--	--
	08-19-89	20	21.0	20.7	20.7	2.44	--	--	--	--
	08-19-89	20	21.0	20.7	20.7	2.44	--	--	--	--
	08-19-89	20	21.0	21.4	21.4	2.44	--	--	--	--

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 321

CHEMICAL ANALYSES—Continued

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SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	S-34/ S-32 STABLE ISOTOPE RATIO PER NIL (82086)	GROSS ALPHA, DIS- SOLVED (mg/L as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS (mg/L as U-nat) (75986)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued											
09394500	03-14-89	--	--	--	--	--	--	--	--	2.9	.60
	07-23-89	--	--	--	--	--	--	--	--	12†	2.2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	3.2	.70
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	1.4	.90
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	3.3	1.9
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	<10	<10	<1.0	38	50	12	7	--	23†	4.2
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	<10	<10	<1.0	28	59	26	8	5.00	12†	3.2
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	22†	4.7
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	7.1	1.7
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS ALPHA, SUSP. TOTAL (μg/L as U-nat (80040)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY (pCi/L as Sr-90/ Y-90) (76005)	ALUM- INUM BOT MAT <63μ DS LAB PERCENT (34792)	ARSENIC BOT MAT <63μ DS LAB (μg/G) (34802)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued											
09394500	03-14-89	8.5*	4.9	0.80	6.4*	4.3	.70	5.2*	0.80	--	--
	07-23-89	520*	2.4	1.1	1100*	2.0	.90	980*	130	8.1	10
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	800*	12	2.1	1300*	9.9	1.7	1100*	160	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	8.3	<10
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	720*	<.6	1.5	1200*	<.6	1.3	1100*	150	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	8.1	10
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	450*	1.8	1.6	1100*	1.5	1.3	970*	140	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	8.4	<10
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	620*	3.1	1.0	1200*	2.8	.90	1000*	150	7.2	<10
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	540*	3.9	1.4	1700*	3.4	1.2	1500*	240	7.1	<10
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	200*	6.0	1.3	1500*	5.4	1.2	1300*	190	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	510*	5.0	1.1	1100*	4.3	1.0	1000*	140	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BARIUM BOT MAT <63 μ DS LAB (μ g/G) (34807)	BERYL- LIUM BOT MAT <63 μ DS LAB (μ g/G) (34812)	BISMUTH BOT MAT <63 μ DS LAB (μ g/G) (34817)	CADMIUM BOT MAT <63 μ DS LAB (μ g/G) (34827)	CALCIUM BOT MAT <63 μ DS LAB PERCENT (34832)	CERIUM BOT MAT <63 μ DS LAB (μ g/G) (34837)	CHRO- MIUM BOT MAT <63 μ DS LAB (μ g/G) (34842)	COBALT BOT MAT <63 μ DS LAB (μ g/G) (34847)	COPPER BOT MAT <63 μ DS LAB (μ g/G) (34852)	EURO- PIUM BOT MAT <63 μ DS LAB (μ g/G) (34857)
		LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued									
09394500	03-14-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	740	2	<10	<2	4.7	67	64	16	31	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	660	2	<10	<2	4.7	68	61	15	32	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	740	2	<10	<2	4.7	67	64	16	31	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	670	2	<10	<2	4.7	69	63	16	30	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	570	2	<10	<2	3.8	60	45	12	23	<2
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	560	2	<10	<2	3.9	62	41	11	21	<2
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
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	08-18-89	--	--	--	--	--	--	--	--	--	--
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	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GALLIUM	GOLD	HOLMIUM	IRON	LANTHA- NUM	LEAD	LITHIUM	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS LAB (μg/G) (34862)	<63μ DS LAB (μg/G) (34872)	<63μ DS LAB (μg/G) (34877)	<63μ DS LAB PERCENT (34882)	<63μ DS LAB (μg/G) (34887)	<63μ DS LAB (μg/G) (34892)	<63μ DS LAB (μg/G) (34897)	<63μ DS LAB PERCENT (34902)	<63μ DS LAB (μg/G) (34907)	<63μ DS LAB (μg/G) (34917)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued											
09394500	03-14-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	20	<8	<4	3.6	36	24	47	2.1	660	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	21	<8	<4	3.6	36	24	47	2.1	680	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	20	<8	<4	3.6	36	24	47	2.1	660	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	20	<8	<4	3.7	36	24	48	2.1	690	<2
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	17	<8	<4	2.7	33	18	30	1.5	660	<2
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	17	<8	<4	2.6	34	18	28	1.5	690	<2
	08-18-89	--	--	--	--	--	--	--	--	--	--
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08-18-89											

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NEODYM- IUM	NICKEL	NIOBIUM	PHOS- PHORUS	POTAS- SIUM	SCAN- DIUM	SILVER	SODIUM	STRON- TIUM	TANTA- LUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μg/G)	(μg/G)	(μg/G)	PERCENT	PERCENT	(μg/G)	(μg/G)	PERCENT	(μg/G)	(μg/G)
		(34922)	(34927)	(34932)	(34937)	(34942)	(34947)	(34957)	(34962)	(34967)	(34977)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued											
09394500	03-14-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	33	31	8	.07	2.4	13	<4	.17	170	<40
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	34	32	9	.07	2.5	13	<4	.19	180	<40
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	33	31	8	.07	2.4	13	<4	.17	170	<40
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
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	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	35	30	8	.07	2.5	13	<4	.18	170	<40
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	30	21	5	.05	1.6	10	<4	.57	270	<40
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	31	19	7	.05	1.6	9	<4	.59	280	<40
	08-18-89	--	--	--	--	--	--	--	--	--	--
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08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--	--	--	--	
08-18-89	--	--	--	--	--	--	--				

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	THORIUM BOT MAT <63 μ DS LAB (μ g/G) (34982)	TIN BOT MAT <63 μ DS LAB (μ g/G) (34987)	TITA- NIUM BOT MAT <63 μ DS LAB PERCENT (34992)	URANIUM BOT MAT <63 μ DS LAB (μ g/G) (35002)	VANA- DIUM BOT MAT <63 μ DS LAB (μ g/G) (35007)	YTTRIUM BOT MAT <63 μ DS LAB (μ g/G) (35012)	YTTER- BIUM BOT MAT <63 μ DS LAB (μ g/G) (35017)	ZINC BOT MAT <63 μ DS LAB (μ g/G) (35022)	SEDI- MENT, SUS- PENDED (mg/L) (80154)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued										
09394500	03-14-89	--	--	--	--	--	--	--	--	--
	07-23-89	11	<10	.29	<100	93	21	2	83	35400
	07-23-89	--	--	--	--	--	--	--	--	22500
	07-23-89	--	--	--	--	--	--	--	--	43700
	07-23-89	--	--	--	--	--	--	--	--	30400
	07-23-89	--	--	--	--	--	--	--	--	31600
	07-23-89	--	--	--	--	--	--	--	--	65300
	07-23-89	--	--	--	--	--	--	--	--	62900
	07-23-89	11	<10	.30	<100	95	21	3	84	41100
	07-23-89	--	--	--	--	--	--	--	--	42900
	07-23-89	--	--	--	--	--	--	--	--	37800
	07-23-89	--	--	--	--	--	--	--	--	42200
	07-23-89	--	--	--	--	--	--	--	--	37900
	07-23-89	--	--	--	--	--	--	--	--	35900
	07-23-89	--	--	--	--	--	--	--	--	36700
	07-23-89	--	--	--	--	--	--	--	--	35000
	07-23-89	--	--	--	--	--	--	--	--	31200
	07-23-89	11	<10	.29	<100	93	21	2	83	36200
	07-23-89	--	--	--	--	--	--	--	--	37400
	07-23-89	--	--	--	--	--	--	--	--	31300
	07-23-89	--	--	--	--	--	--	--	--	30000
	07-23-89	--	--	--	--	--	--	--	--	28400
	07-23-89	--	--	--	--	--	--	--	--	29800
	07-23-89	--	--	--	--	--	--	--	--	27200
	07-23-89	--	--	--	--	--	--	--	--	19600
	07-23-89	13	<10	.30	<100	96	22	3	85	22400
	07-23-89	--	--	--	--	--	--	--	--	24300
	07-23-89	--	--	--	--	--	--	--	--	35400
	07-23-89	--	--	--	--	--	--	--	--	34000
	08-18-89	11	<10	.26	<100	65	21	2	49	49300
	08-18-89	--	--	--	--	--	--	--	--	36500
	08-18-89	11	<10	.26	<100	60	22	3	46	46500
	08-18-89	--	--	--	--	--	--	--	--	47700
	08-18-89	--	--	--	--	--	--	--	--	48200
	08-18-89	--	--	--	--	--	--	--	--	57700
	08-18-89	--	--	--	--	--	--	--	--	56100
	08-18-89	--	--	--	--	--	--	--	--	58100
	08-18-89	--	--	--	--	--	--	--	--	49900
	08-18-89	--	--	--	--	--	--	--	--	48800
	08-18-89	--	--	--	--	--	--	--	--	58200
	08-18-89	--	--	--	--	--	--	--	--	49900
	08-19-89	--	--	--	--	--	--	--	--	34500
	08-19-89	--	--	--	--	--	--	--	--	32700
	08-19-89	--	--	--	--	--	--	--	--	31900
	08-19-89	--	--	--	--	--	--	--	--	33200

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)
		LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued									
09394500	03-14-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	43	56	72	84	88	93	98	100	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	98	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	41	54	70	84	92	94	97	100	100
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	85	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	41	54	69	83	89	94	97	100	100
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	99	--	--	--	--	--	--	--	--	--
	07-23-89	95	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--	--
	07-23-89	92	--	--	--	--	--	--	--	--	--
	08-18-89	85	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	84	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	85	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--	--
	08-19-89	92	--	--	--	--	--	--	--	--	--
	08-19-89	95	--	--	--	--	--	--	--	--	--
	08-19-89	95	--	--	--	--	--	--	--	--	--
	08-19-89	93	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09394500	LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA	08-19-89	1430	34°46'58"N	110°02'37"W
		08-19-89	1435		
		08-19-89	1438		
		08-19-89	1440		
		08-19-89	1500		
		08-19-89	1501		
		08-19-89	1505		
		03-05-90	1600		
		04-02-90	1310		
		07-07-90	2010		
		07-07-90	2020		
		07-07-90	2030		
		07-11-90	0010		
		08-16-90	--		
		08-16-90	0420		
		08-16-90	0620		
		08-16-90	1230		
		08-16-90	1235		
		08-16-90	1320		
		09-11-90	1330		
		09-21-90	--		
		09-21-90	0001		
		09-21-90	0310		
		09-21-90	0350		
		09-21-90	0430		
		09-21-90	0431		
		09-21-90	0730		
		09-21-90	0731		
		09-21-90	0930		
		09-21-90	1110		
		09-21-90	1111		
		09-21-90	2330		
		09-22-90	0130		
		09-22-90	0131		
		09-22-90	0330		
		09-22-90	0530		
		09-22-90	0531		
		09-22-90	1245		
		01-06-91	0002		
		01-06-91	1440		
		01-06-91	1840		
		01-06-91	2240		
		01-07-91	1400		
		01-08-91	1840		
		03-02-91	0001		
		03-11-91	1230		
		08-28-91	1400		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (METERS) (00004)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (METERS) (00065)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued										
09394500	08-19-89	20	--	21.0	21.4	2.44	--	--	--	--
	08-19-89	20	--	21.0	21.4	2.44	--	--	--	--
	08-19-89	20	--	21.0	21.4	2.44	--	--	--	--
	08-19-89	20	--	21.0	21.4	2.44	--	--	--	--
	08-19-89	30	--	21.0	21.2	2.52	--	--	--	--
	08-19-89	50	--	--	21.0	2.52	--	--	--	--
	08-19-89	50	--	--	21.2	2.52	--	--	--	--
	03-05-90	70	--	11.0	.074	1.58	--	--	--	--
	04-02-90	70	1.86	11.5	.057	1.57	409	--	9.2	8.5
	07-07-90	50	--	--	22.1	--	--	--	--	--
	07-07-90	3000	--	--	25.1	.30	490	476	--	7.3
	07-07-90	50	--	--	28.0	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	08-16-90	3000	--	--	--	--	--	586	--	--
	08-16-90	50	--	--	29.2	--	--	--	--	--
	08-16-90	50	--	--	30.9	--	--	--	--	--
	08-16-90	50	--	--	15.2	--	--	--	--	--
	08-16-90	10	--	--	15.0	--	--	568	--	--
	08-16-90	50	--	--	13.8	--	--	--	--	--
	09-11-90	70	--	--	.20	--	--	--	--	--
	09-21-90	3000	--	--	25.1	--	500	481	--	8.3
	09-21-90	8010	--	--	--	--	--	--	--	--
	09-21-90	50	--	--	29.2	--	--	--	--	--
	09-21-90	50	--	--	39.6	--	--	--	--	--
	09-21-90	50	--	--	46.2	--	--	--	--	--
	09-21-90	50	--	--	43.3	--	--	--	--	--
	09-21-90	50	--	--	54.4	--	--	--	--	--
	09-21-90	50	--	--	54.4	--	--	--	--	--
	09-21-90	50	--	--	52.4	--	--	--	--	--
	09-21-90	50	--	--	35.7	--	--	--	--	--
	09-21-90	50	--	--	35.7	--	--	--	--	--
	09-21-90	50	--	--	32.0	--	--	--	--	--
	09-22-90	50	--	--	31.4	--	--	--	--	--
	09-22-90	50	--	--	31.4	--	--	--	--	--
	09-22-90	50	--	--	34.6	--	--	--	--	--
	09-22-90	50	--	--	30.0	--	--	--	--	--
	09-22-90	50	--	--	30.0	--	--	--	--	--
	09-22-90	70	--	--	5.44	--	--	--	--	--
	01-06-91	8010	--	--	--	--	619	--	--	8.6
	01-06-91	50	--	--	29.7	--	--	--	--	--
	01-06-91	50	--	--	36.5	2.83	574	582	--	9.3
	01-06-91	50	--	--	29.5	2.76	415	--	--	9.5
	01-07-91	70	--	--	8.13	--	--	--	--	--
	01-08-91	--	--	--	1.73	--	--	--	--	--
	03-02-91	8010	--	--	--	--	287	--	--	8.3
	03-11-91	70	--	--	.42	--	--	--	--	--
	08-28-91	10	--	--	1.87	--	--	--	--	--

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CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM	NEODYM- IUM	NICKEL	NIOBIUM	PHOS- PHORUS	POTAS- SIUM	SCAN- DIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT (34902)	(μg/G) (34907)	(μg/G) (34917)	(μg/G) (34922)	(μg/G) (34927)	(μg/G) (34932)	PERCENT (34937)	PERCENT (34942)	(μg/G) (34947)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued										
09394500	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	03-05-90	--	--	--	--	--	--	--	--	--
	04-02-90	--	--	--	--	--	--	--	--	--
	07-07-90	--	--	--	--	--	--	--	--	--
	07-07-90	2.0	770	<2	31	22	8	.08	2.3	13
	07-07-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	08-16-90	1.8	520	<2	26	19	8	.04	1.5	12
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	1.9	480	<2	26	24	9	.04	1.5	13
	08-16-90	--	--	--	--	--	--	--	--	--
	09-11-90	--	--	--	--	--	--	--	--	--
	09-21-90	1.8	650	<2	28	24	10	.06	1.9	12
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
01-06-91	--	--	--	--	--	--	--	--	--	
01-06-91	--	--	--	--	--	--	--	--	--	
01-06-91	1.7	630	<2	28	23	8	.05	1.5	11	
01-06-91	--	--	--	--	--	--	--	--	--	
01-07-91	--	--	--	--	--	--	--	--	--	
01-08-91	--	--	--	--	--	--	--	--	--	
03-02-91	--	--	--	--	--	--	--	--	--	
03-11-91	--	--	--	--	--	--	--	--	--	
08-28-91	--	--	--	--	--	--	--	--	--	

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CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	YTTRIUM	YTTER-	ZINC	SED1-	SED.	SED.	SED.	SED.
		BOT MAT	BIUM	BOT MAT	MENT,	SIEVE	SIEVE	SIEVE	SIEVE
		<63 μ DS	<63 μ DS	<63 μ DS	SUS-	DIAM.	DIAM.	DIAM.	DIAM.
		LAB	LAB	LAB	PENDED	% FINER	% FINER	% FINER	% FINER
		(μ g/G)	(μ g/G)	(μ g/G)	(mg/L)	.062 MM	.125 MM	.250 MM	.500 MM
		(35012)	(35017)	(35022)	(80154)	(70331)	(70332)	(70333)	(70334)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued									
09394500	08-19-89	--	--	--	33100	93	--	--	--
	08-19-89	--	--	--	33300	93	--	--	--
	08-19-89	--	--	--	32700	93	--	--	--
	08-19-89	--	--	--	32700	93	--	--	--
	08-19-89	--	--	--	35900	86	--	--	--
	08-19-89	--	--	--	36500	--	--	--	--
	08-19-89	--	--	--	E36000	--	--	--	--
	03-05-90	--	--	--	135	97	--	--	--
	04-02-90	--	--	--	92	94	--	--	--
	07-07-90	--	--	--	39500	94	--	--	--
	07-07-90	24	2	78	27000	94	100	100	--
	07-07-90	--	--	--	24000	94	--	--	--
	07-11-90	--	--	--	--	--	--	--	--
	08-16-90	22	3	48	E40400	--	--	--	--
	08-16-90	--	--	--	40200	89	--	--	--
	08-16-90	--	--	--	37700	87	--	--	--
	08-16-90	--	--	--	40500	89	95	99	100
	08-16-90	22	3	50	34800	98	99	100	100
	08-16-90	--	--	--	40300	92	97	100	100
	09-11-90	--	--	--	40300	100	--	--	--
	09-21-90	20	2	81	42700	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	50600	--	--	--	--
	09-21-90	--	--	--	44100	90	--	--	--
	09-21-90	--	--	--	37600	--	--	--	--
	09-21-90	--	--	--	36900	--	--	--	--
	09-21-90	--	--	--	42700	--	--	--	--
	09-21-90	--	--	--	38200	--	--	--	--
	09-21-90	--	--	--	39300	86	--	--	--
	09-21-90	--	--	--	37500	--	--	--	--
	09-21-90	--	--	--	36700	--	--	--	--
	09-21-90	--	--	--	30000	97	--	--	--
	09-22-90	--	--	--	25300	--	--	--	--
	09-22-90	--	--	--	24800	--	--	--	--
	09-22-90	--	--	--	21800	96	--	--	--
	09-22-90	--	--	--	20000	--	--	--	--
	09-22-90	--	--	--	19600	--	--	--	--
	09-22-90	--	--	--	19700	97	--	--	--
	01-06-91	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	57700	--	--	--	--
	01-06-91	21	2	52	43000	86	--	--	--
	01-06-91	--	--	--	51100	--	--	--	--
	01-07-91	--	--	--	40400	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--
	03-02-91	--	--	--	--	--	--	--	--
	03-11-91	--	--	--	287	--	--	--	--
	08-28-91	--	--	--	11000	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)
LITTLE COLORADO RIVER AT WOODRUFF, ARIZONA—Continued										
09394500	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	03-05-90	--	--	--	--	--	--	--	--	--
	04-02-90	--	--	--	--	--	--	--	--	--
	07-07-90	--	--	--	--	--	--	--	--	--
	07-07-90	37	48	60	74	84	--	--	--	--
	07-07-90	--	--	--	--	--	--	--	--	--
	07-11-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	70	75	79	82	86	--	--	--	--
	08-16-90	90	91	92	95	96	--	--	--	--
	08-16-90	76	81	83	84	88	--	--	--	--
	09-11-90	--	--	--	--	--	--	--	--	--
	09-21-90	55	58	64	72	82	88	92	99	100
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	10	13	16	22	49	97	99	100	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	93	97	100	--
	09-21-90	55	58	64	0	82	--	--	--	--
	09-21-90	6	12	14	20	40	90	93	99	100
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	90	94	99	100
	09-21-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	97	99	100	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	98	100	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	03-02-91	--	--	--	--	--	--	--	--	--
03-11-91	--	--	--	--	--	--	--	--	--	
08-28-91	89	92	96	97	99	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09397300	LITTLE COLORADO RIVER NEAR JOSEPH CITY, ARIZONA	02-17-89	1300	34°56'59"N	110°20'24"W
		03-15-89	1145		
		03-27-89	1300		
		07-23-89	1550		
		07-23-89	1551		
		07-23-89	1630		
		07-23-89	1631		
		07-24-89	1045		
		07-24-89	1046		
		07-24-89	1050		
		07-24-89	1051		
		07-26-89	0630		
		07-26-89	0730		
		07-26-89	0731		
		07-26-89	0950		
		07-26-89	0951		
		07-26-89	1010		
		07-26-89	1011		
		07-26-89	1120		
		07-26-89	1310		
		07-26-89	1311		
		07-26-89	1820		
		07-26-89	1821		
		07-27-89	1345		
		08-18-89	1630		
		08-18-89	1631		
		08-18-89	1850		
		08-18-89	1851		
		08-18-89	2140		
		08-18-89	2141		
		08-19-89	0010		
		08-19-89	0210		
		08-19-89	0440		
		08-19-89	0800		
		03-05-90	1300		
		07-08-90	0140		
		07-08-90	0200		
		07-08-90	0220		
		07-08-90	0240		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	S-34/ S-32 STABLE ISOTOP RATIO PER MIL (82086)	GROSS ALPHA, DIS- SOLVED (µg/L as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS (µg/L as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL (µg/L as U-nat) (80040)
LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued										
09397300	02-17-89	1533	70	--	E.9	.73	--	22†	3.7	<.6*
	03-15-89		70	14.0	.2	.57	--	4.3	.70	2.8*
	03-27-89		70	--	3.5	.87	--	20†	3.3	1.3*
	07-23-89		50	--	70	1.10	--	10	1.5	340*
	07-23-89		50	--	70	1.10	--	--	--	--
	07-23-89		50	--	70	1.10	--	9.6	1.5	860*
	07-23-89		50	--	30	--	--	--	--	--
	07-24-89		70	--	8.9	.83	--	1.3	.50	130*
	07-24-89		70	--	8.9	.83	--	--	--	--
	07-24-89		50	--	8.9	.83	--	--	--	--
	07-24-89		50	--	8.9	.83	--	--	--	--
	07-26-89		50	--	70.5	1.10	--	3.5	.70	420*
	07-26-89		50	--	70.5	1.10	--	7.1	1.2	1100*
	07-26-89		50	--	70.5	1.10	--	--	--	--
	07-26-89		50	--	60.3	1.07	--	8.2	1.5	860*
	07-26-89		50	--	60.3	1.07	--	--	--	--
	07-26-89		50	--	47.3	1.02	--	12†	1.7	1300*
	07-26-89		50	--	47.3	1.02	--	--	--	--
	07-26-89		50	--	38.2	.99	--	--	--	--
	07-26-89		50	--	35.4	.98	--	--	--	--
	07-26-89		50	--	35.4	.98	--	--	--	--
	07-26-89		50	--	42.8	1.00	--	8.3	1.4	870*
	07-26-89		50	--	42.8	1.00	--	--	--	--
	07-27-89		10	23.0	15.9	.88	--	--	--	--
	08-18-89		50	--	185.5	1.49	2.80	14†	2.7	880*
	08-18-89		50	--	185.5	1.49	--	--	--	--
	08-18-89		50	--	144.4	1.34	--	--	--	--
	08-18-89		50	--	144.4	1.34	--	--	--	--
	08-18-89		50	--	110.4	1.23	2.70	7.9	2.3	590*
	08-18-89		50	--	110.4	1.23	--	--	--	--
	08-19-89		50	--	118.1	1.26	--	--	--	--
	08-19-89		50	--	106.8	1.22	--	--	--	--
	08-19-89		50	--	86.1	1.15	5.00	12†	2.5	980*
	08-19-89		50	--	64.0	1.08	--	--	--	--
	03-05-90		70	14.0	E.27	.66	--	--	--	--
	07-08-90		50	--	56.9	1.07	--	--	--	--
	07-08-90		50	--	57.8	--	--	--	--	--
	07-08-90		50	--	59.5	--	--	--	--	--
	07-08-90		50	--	59.5	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA 2 SIGMA WATER, DISS. (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY (pCi/G as Sr-90/ Y-90) (76005)	Cs-137 SOIL, TOTAL, (pCi/G) (76007)	Cs-137 2 SIGMA SOIL, TOTAL, DRY WGT (pCi/G) (04103)
LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued										
09397300	02-17-89	9.4	2.0	1.3*	6.6	1.4	1.3*	.60	--	--
	03-15-89	7.4	2.1	1.9*	6.5	1.8	1.6*	.40	--	--
	03-27-89	10	2.2	1.7*	6.9	1.5	1.6*	.70	--	--
	07-23-89	12	2.2	2000*	10	1.9	1800*	240	--	--
	07-23-89	--	--	--	--	--	--	--	--	--
	07-23-89	2800	420	2000*	2400	360	1800*	240	--	--
	07-23-89	--	--	--	--	--	--	--	--	--
	07-24-89	9.0	1.8	150*	7.1	1.4	130*	18	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-26-89	7.9	1.5	740*	6.5	1.2	680*	87	--	--
	07-26-89	9.5	1.7	2500*	8.2	1.5	2800*	310	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	8.9	2.5	2000*	7.2	2.0	1800*	250	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	9.4	2.1	1500*	7.8	1.7	1300*	200	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	7.7	1.4	1100*	6.8	1.3	940*	130	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	08-18-89	7.6	1.5	2600*	6.5	1.3	2300*	330	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	3.1	.80	1300*	2.7	.70	1200*	160	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	.04	.010
	08-19-89	4.1	1.1	2100*	3.4	.90	1900*	280	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	03-05-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALUM- INUM	ARSENIC	BARIUM	BERYL- LIUM	BISMUTH	CADMIUM	CALCIUM	CERIUM	CHRO- MIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)
		(34792)	(34802)	(34807)	(34812)	(34817)	(34827)	(34832)	(34837)	(34842)
LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued										
09397300	02-17-89	--	--	--	--	--	--	--	--	--
	03-15-89	--	--	--	--	--	--	--	--	--
	03-27-89	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--
	07-23-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-24-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-26-89	--	--	--	--	--	--	--	--	--
	07-27-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	--	--	--	--	--	--	--	--	--
	08-18-89	7.1	<10	570	2	<10	<2	4.3	70	54
	08-18-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	08-19-89	--	--	--	--	--	--	--	--	--
	03-05-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES—Continued

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CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 351

CHEMICAL ANALYSES—Continued

[illegible]

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	TITA- NIUM	URANIUM	VANA- DIUM	YTTRIUM	YTTER- BIUM	ZINC	SEDI- MENT, SUS- PENDE	
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT		
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS		
		LAB	LAB	LAB	LAB	LAB	LAB		
		PERCENT	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(mg/L)	
		(34992)	(35002)	(35007)	(35012)	(35017)	(35022)	(80154)	
LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued									
09397300	02-17-89	--	--	--	--	--	--	--	
	03-15-89	--	--	--	--	--	--	44	
	03-27-89	--	--	--	--	--	--	--	
	07-23-89	--	--	--	--	--	--	53700	
	07-23-89	--	--	--	--	--	--	54600	
	07-23-89	--	--	--	--	--	--	61000	
	07-23-89	--	--	--	--	--	--	58700	
	07-24-89	--	--	--	--	--	--	4800	
	07-24-89	--	--	--	--	--	--	4860	
	07-24-89	--	--	--	--	--	--	4970	
	07-24-89	--	--	--	--	--	--	5050	
	07-26-89	--	--	--	--	--	--	22500	
	07-26-89	--	--	--	--	--	--	58600	
	07-26-89	--	--	--	--	--	--	59400	
	07-26-89	--	--	--	--	--	--	73000	
	07-26-89	--	--	--	--	--	--	74300	
	07-26-89	--	--	--	--	--	--	71200	
	07-26-89	--	--	--	--	--	--	72100	
	07-26-89	--	--	--	--	--	--	44100	
	07-26-89	--	--	--	--	--	--	38500	
	07-26-89	--	--	--	--	--	--	39700	
	07-26-89	--	--	--	--	--	--	44500	
	07-26-89	--	--	--	--	--	--	44500	
	07-27-89	--	--	--	--	--	--	37300	
	08-18-89	--	--	--	--	--	--	93500	
	08-18-89	--	--	--	--	--	--	92400	
	08-18-89	--	--	--	--	--	--	84900	
	08-18-89	--	--	--	--	--	--	80600	
	08-18-89	.34	<100	71	22	2	50	84700	
	08-18-89	--	--	--	--	--	--	84700	
	08-19-89	--	--	--	--	--	--	73200	
	08-19-89	--	--	--	--	--	--	67100	
	08-19-89	--	--	--	--	--	--	55300	
	08-19-89	--	--	--	--	--	--	48800	
	03-05-90	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	51500
	07-08-90	--	--	--	--	--	--	--	47600
	07-08-90	--	--	--	--	--	--	--	46400
	07-08-90	--	--	--	--	--	--	--	46100

CHEMICAL ANALYSES—Continued

354 Surface-Water Data—Chemical Analyses

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09397300	LITTLE COLORADO RIVER NEAR JOSEPH CITY, ARIZONA	07-08-90	0440	34°56'59"N	110°20'24"W
		07-08-90	0620		
		07-14-90	1730		
		07-14-90	2150		
		07-14-90	2340		
		07-15-90	0750		
		07-16-90	0150		
		07-16-90	1610		
		08-16-90	1645		
		08-16-90	1750		
		09-01-90	--		
		09-01-90	1820		
		09-01-90	1930		
		09-01-90	2110		
		09-01-90	2150		
		09-05-90	1200		
		09-11-90	1130		
		09-21-90	--		
		09-21-90	0550		
		09-21-90	0700		
		09-21-90	0710		
		09-21-90	0830		
		09-21-90	0850		
		09-21-90	1020		
		09-21-90	1110		
		09-21-90	1130		
		09-21-90	1230		
		09-21-90	1630		
		09-21-90	1740		
		09-22-90	1200		
		12-18-90	1525		
		01-06-91	--		
		01-06-91	0002		
		01-07-91	1620		
		01-15-91	1540		
		08-01-91	1130		
		08-01-91	1145		
		08-01-91	1230		
		08-08-91	1630		
		08-28-91	1740		
		08-28-91	1745		
		09-06-91	0250		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (METERS) (00004)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued										
09397300	07-08-90	50	--	--	67.4	1.11	--	--	--	--
	07-08-90	50	--	--	50.4	--	--	--	--	--
	07-14-90	50	--	--	100.8	1.23	--	--	--	--
	07-14-90	50	--	--	35.1	--	--	--	--	--
	07-14-90	50	--	--	28.6	--	--	--	--	--
	07-15-90	50	--	--	28.3	--	--	--	--	--
	07-16-90	50	--	--	31.7	--	--	--	--	--
	07-16-90	70	--	--	8.9	--	--	--	--	--
	08-16-90	10	--	--	27.2	.94	--	709	--	--
	08-16-90	50	--	--	22.4	.94	--	719	--	--
	09-01-90	3000	--	--	--	--	--	446	--	--
	09-01-90	50	--	--	90.1	--	--	--	--	--
	09-01-90	50	--	--	59.4	--	--	--	--	--
	09-01-90	50	--	--	35.1	--	--	--	--	--
	09-01-90	50	--	--	35.1	--	--	--	--	--
	09-05-90	70	--	--	6.7	.81	--	--	--	--
	09-11-90	70	--	--	.57	.70	--	--	--	--
	09-21-90	3000	--	--	28.6	.94	592	598	--	8.3
	09-21-90	50	--	--	50.7	--	--	--	--	--
	09-21-90	50	--	--	29.7	.95	--	--	--	--
	09-21-90	50	--	--	30.6	.95	--	--	--	--
	09-21-90	50	--	--	36.8	--	--	--	--	--
	09-21-90	50	--	--	40.0	--	--	--	--	--
	09-21-90	50	--	--	35.1	.98	--	--	--	--
	09-21-90	50	--	--	38.8	--	--	--	--	--
	09-21-90	50	--	--	36.0	--	--	--	--	--
	09-21-90	50	--	--	35.1	--	--	--	--	--
	09-21-90	50	--	--	35.1	--	--	--	--	--
	09-21-90	50	--	--	29.7	--	--	--	--	--
	09-22-90	70	--	--	34.0	.97	--	--	--	--
	12-18-90	70	--	--	.91	--	--	--	--	--
	01-06-91	8010	--	--	--	--	871	--	--	--
	01-06-91	8010	--	--	--	--	812	--	--	8.8
	01-07-91	70	--	--	22.4	.91	518	559	--	9.3
	01-15-91	70	--	7.0	E.85	--	--	--	--	--
	08-01-91	50	--	--	2.5	.77	439	--	--	8.0
	08-01-91	10	21.3	23.0	2.3	.76	408	446	6.7	7.8
	08-01-91	50	--	--	2.2	.76	414	--	--	8.0
	08-08-91	50	--	--	7.7	.85	1360	--	--	7.5
	08-28-91	50	--	--	6.4	.81	--	--	--	--
	08-28-91	50	--	--	--	--	--	--	--	--
	09-06-91	50	--	--	--	--	--	--	--	7.9

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 357

CHEMICAL ANALYSES—Continued

[illegible]

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 359

CHEMICAL ANALYSES—Continued

360 Surface-Water Data—Chemical Analyses

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 361

CHEMICAL ANALYSES—Continued

[illegible]

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 363

CHEMICAL ANALYSES—Continued

364 Surface-Water Data—Chemical Analyses

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 365

CHEMICAL ANALYSES—Continued

366 Surface-Water Data—Chemical Analyses

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 367

CHEMICAL ANALYSES—Continued

368 Surface-Water Data—Chemical Analyses

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 369

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	TITANIUM	URANIUM	VANADIUM	YTTRIUM	YTTERBIUM	ZINC	SEDIMENT,	SED. SUSP.
		BOT MAT <63 μ DS LAB PERCENT (34992)	BOT MAT <63 μ DS LAB (μ g/G) (35002)	BOT MAT <63 μ DS LAB (μ g/G) (35007)	BOT MAT <63 μ DS LAB (μ g/G) (35012)	BOT MAT <63 μ DS LAB (μ g/G) (35017)	BOT MAT <63 μ DS LAB (μ g/G) (35022)	MENT, SUSPENDED (mg/L) (80154)	SIEVE DIAM. % FINER THAN .062 MM (70331)
LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued									
09397300	07-08-90	.33	<100	76	24	2	58	45600	90
	07-08-90	--	--	--	--	--	--	41500	97
	07-14-90	.30	<100	72	22	2	55	178000	93
	07-14-90	--	--	--	--	--	--	238000	71
	07-14-90	--	--	--	--	--	--	226000	73
	07-15-90	--	--	--	--	--	--	173000	82
	07-16-90	--	--	--	--	--	--	56400	91
	07-16-90	--	--	--	--	--	--	96900	98
	08-16-90	.41	<100	100	24	3	78	51300	97
	08-16-90	.40	<100	100	25	3	78	64500	86
	09-01-90	.35	<100	84	21	2	71	44800	84
	09-01-90	--	--	--	--	--	--	64000	92
	09-01-90	--	--	--	--	--	--	46200	85
	09-01-90	--	--	--	--	--	--	37400	84
	09-01-90	--	--	--	--	--	--	31300	85
	09-05-90	--	--	--	--	--	--	42900	100
	09-11-90	--	--	--	--	--	--	87400	100
	09-21-90	.29	<100	80	19	2	67	46800	--
	09-21-90	--	--	--	--	--	--	57900	--
	09-21-90	--	--	--	--	--	--	54300	97
	09-21-90	--	--	--	--	--	--	59700	93
	09-21-90	--	--	--	--	--	--	54300	97
	09-21-90	--	--	--	--	--	--	59700	93
	09-21-90	--	--	--	--	--	--	45800	93
	09-21-90	--	--	--	--	--	--	52300	--
	09-21-90	--	--	--	--	--	--	45800	93
	09-21-90	--	--	--	--	--	--	43900	--
	09-21-90	--	--	--	--	--	--	41400	--
	09-21-90	--	--	--	--	--	--	38400	--
	09-22-90	--	--	--	--	--	--	27500	91
	12-18-90	--	--	--	--	--	--	31900	--
	01-06-91	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	--	--	--	--	--
	01-07-91	.35	<100	82	19	2	58	17100	89
	01-15-91	--	--	--	--	--	--	4050	--
	08-01-91	--	--	--	--	--	--	18400	96
	08-01-91	--	--	--	--	--	--	17700	--
	08-01-91	--	--	--	--	--	--	16300	99
	08-08-91	--	--	--	--	--	--	143000	86
	08-28-91	--	--	--	--	--	--	203000	60
	08-28-91	--	--	--	--	--	--	135000	91
	09-06-91	--	--	--	--	--	--	31400	78

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.
		SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.
		FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
		% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER
		THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN
		.002 MM	.004 MM	.008 MM	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM
		(70337)	(70338)	(70339)	(70340)	(70341)	(70342)	(70343)	(70344)	(70345)
LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued										
09397300	07-08-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-14-90	--	--	--	--	--	--	--	--	--
	07-14-90	--	--	--	--	--	--	--	--	--
	07-14-90	--	--	--	--	--	--	--	--	--
	07-15-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	07-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-16-90	--	--	--	--	--	--	--	--	--
	09-01-90	--	--	--	--	--	--	--	--	--
	09-01-90	--	--	--	--	--	--	--	--	--
	09-01-90	--	--	--	--	--	--	--	--	--
	09-01-90	--	--	--	--	--	--	--	--	--
	09-01-90	--	--	--	--	--	--	--	--	--
	09-05-90	--	--	--	--	--	--	--	--	--
	09-11-90	--	--	--	--	--	--	--	--	--
	09-21-90	57	61	66	73	79	85	95	100	--
	09-21-90	--	--	--	--	--	100	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	11	14	17	26	50	87	96	99	100
	09-21-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	95	98	100	--
	09-21-90	--	--	--	--	--	97	100	--	--
	09-21-90	--	--	--	--	--	92	98	100	--
	09-22-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	--	--	--	--	--	--
	01-06-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-15-91	--	--	--	--	--	--	--	--	--
	08-01-91	--	--	--	--	--	--	--	--	--
	08-01-91	59	75	89	94	97	98	99	100	--
	08-01-91	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-28-91	--	--	--	--	--	--	--	--	--
08-28-91	--	--	--	--	--	--	--	--	--	
09-06-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09401000	LITTLE COLORADO RIVER AT GRAND FALLS, ARIZONA	04-11-90	1205	35°26'00"N	111°12'00"W
		07-09-90	1120		
		07-09-90	1210		
		07-09-90	1420		
		07-09-90	1810		
		07-09-90	1820		
		07-10-90	1405		
		07-10-90	1408		
		07-17-90	0210		
		07-17-90	0410		
		07-17-90	0610		
		07-17-90	1600		
		07-17-90	1800		
		07-17-90	1808		
		07-17-90	1810		
		07-17-90	1840		
		08-16-90	2330		
		08-17-90	0230		
		08-17-90	0530		
		08-17-90	0830		
		08-17-90	1130		
		08-17-90	1150		
		08-17-90	1230		
		08-17-90	1238		
		08-17-90	1240		
		08-17-90	1245		
		08-17-90	1320		
		09-22-90	--		
		09-22-90	0440		
		09-22-90	0650		
		09-22-90	0730		
		09-22-90	0800		
		09-22-90	1050		
		09-22-90	1400		
		09-22-90	1650		
		09-22-90	2000		
		09-22-90	2250		
		09-23-90	0400		
		09-23-90	0530		
		09-23-90	0640		
		01-07-91	--		
		01-07-91	1750		
		01-08-91	0150		
		01-08-91	0550		
		01-08-91	1210		
		01-08-91	1215		
		01-15-91	1255		
		03-03-91	1330		
		03-03-91	1930		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (meters above NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (meters) (00004)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	04-11-90	1353	10	14.9	14.0	2.7	1.84	1510	--	8.4
	07-09-90		50	--	--	31.2	--	--	--	--
	07-09-90		50	--	--	42.5	2.64	--	1130	--
	07-09-90		50	--	--	40.5	--	--	--	--
	07-09-90		50	--	--	28.9	2.48	--	1490	--
	07-09-90		50	--	--	28.2	--	--	--	--
	07-10-90		10	--	--	7.9	2.05	--	870	--
	07-10-90		2000	--	27.0	7.9	2.01	--	--	--
	07-17-90		50	--	--	26.7	--	--	--	--
	07-17-90		50	--	--	35.4	--	--	--	--
	07-17-90		50	--	--	34.3	--	--	--	--
	07-17-90		50	--	--	11.4	2.04	--	1070	--
	07-17-90		10	--	--	9.7	2.01	--	1240	--
	07-17-90		2000	--	--	9.7	--	--	--	--
	07-17-90		50	--	--	9.7	2.01	--	--	--
	07-17-90		50	--	--	9.4	--	--	629	--
	08-16-90		50	--	--	48.1	--	--	--	--
	08-17-90		50	--	--	52.1	2.78	--	--	--
	08-17-90		50	--	--	50.4	2.76	--	--	--
	08-17-90		50	--	--	48.4	2.74	--	--	--
	08-17-90		70	--	--	45.0	2.69	--	--	--
	08-17-90		50	--	--	45.3	--	--	--	--
	08-17-90		10	--	--	45.0	2.69	--	1140	--
	08-17-90		2000	--	--	45.0	--	--	--	--
	08-17-90		--	--	--	45.3	2.70	--	1110	--
	08-17-90		70	--	--	45.3	2.70	--	--	--
	08-17-90		50	--	--	45.0	2.69	--	--	--
	09-22-90		3000	--	--	--	--	760	766	--
	09-22-90		50	--	--	25.0	--	--	--	--
	09-22-90		50	--	--	26.5	--	--	--	--
	09-22-90		50	--	--	22.7	--	--	--	--
	09-22-90		50	--	--	28.9	--	--	--	--
	09-22-90		50	--	--	37.1	--	--	--	--
	09-22-90		50	--	--	40.2	--	--	--	--
	09-22-90		50	--	--	42.2	--	--	--	--
	09-22-90		50	--	--	34.6	--	--	--	--
	09-22-90		50	--	--	30.6	--	--	--	--
	09-23-90		50	--	--	27.0	--	--	--	--
	09-23-90		50	--	--	24.6	--	--	--	--
	09-23-90		50	--	--	26.7	--	--	--	--
	01-07-91		--	--	--	--	--	605	676	--
	01-07-91		50	--	--	83.4	3.19	570	--	--
	01-08-91		50	--	--	71.4	3.03	604	--	--
	01-08-91		50	--	--	68.3	2.99	600	--	--
	01-08-91		50	--	--	60.9	2.91	610	--	--
	01-08-91		70	--	--	60.9	2.91	611	--	--
	01-15-91		70	--	--	1.4	--	--	--	--
	03-03-91		50	--	--	43.0	--	--	--	--
	03-03-91		50	--	--	54.1	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LITY WAT DIS FIX END FIELD CaCO3 (mg/L) (39036)	ALKA- LITY LAB (mg/L AS CaCO3) (90410)	CAR- BONATE WATER DIS IT FIELD mg/L AS CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD mg/L AS HCO3 (00453)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (tons per day) (70302)
		LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued								
09401000	04-11-90	8.5	--	130	--	4	151	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	8.1	--	135	--	--	574	591	2104
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	7.8	--	135	--	--	1360	686	3401
	07-09-90	--	--	--	--	--	--	--	--	--
	07-10-90	--	8.1	--	186	--	--	527	508	359
	07-10-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	7.8	--	191	--	--	642	604	635
	07-17-90	--	7.8	--	300	--	--	652	692	544
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	8.1	--	208	--	--	276	317	225
	08-16-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
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	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	7.7	--	275	--	--	608	681	2367
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	7.8	--	265	--	--	616	654	2413
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	09-22-90	8.0	8.2	--	189	--	--	473	463	--
	09-22-90	--	--	--	--	--	--	--	--	--
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09-22-90	--	--	--	--	--	--	--	--	--	
09-22-90	--	--	--	--	--	--	--	--	--	
09-22-90	--	--								

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 375

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO ₄) (00660)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued											
09401000	04-11-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	46	13	3.1	210	14	90	2.6
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	61	18	3.8	220	12	88	3.3
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-10-90	.080	.25	62	39	12	2.0	170	12	90	2.3
	07-10-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	51	15	3.2	190	12	88	3.3
	07-17-90	--	--	--	62	19	3.3	200	11	87	3.2
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	29	9.1	1.4	84	7	85	2.9
	08-16-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	76	24	3.7	200	10	84	3.8
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	73	23	3.6	190	10	84	3.3
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	45	14	2.3	150	10	87	2.8
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	16	4.9	.91	140	15	94	1.5
	01-07-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-15-91	--	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)	BORON, DIS- SOLVED (μg/L as B) (01020)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	04-11-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	180	.050	.70	26	73	10	170	<.5	490
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	240	.030	.10	21	97	6	200	<.5	290
	07-09-90	--	--	--	--	--	--	--	--	--
	07-10-90	110	.090	.70	15	78	8	120	<.5	470
	07-10-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	120	.070	.80	16	140	3	160	<.5	360
	07-17-90	120	.080	.90	14	150	3	150	<.5	370
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	12	.85	.60	14	67	5	11	<.5	120
	08-16-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	81	.32	.60	12	190	3	130	<.5	310
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	79	.060	.70	14	180	2	30	<.5	320
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	09-22-90	56	.080	.70	13	110	4	120	<.5	330
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--
	01-07-91	71	.49	.50	13	53	7	30	<.5	260
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-15-91	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CADMIUM DIS- SOLVED ($\mu\text{g/L}$ as Cd) (01025)	CHRO- MIUM, DIS- SOLVED ($\mu\text{g/L}$ as Cr) (01030)	COBALT, DIS- SOLVED ($\mu\text{g/L}$ as Co) (01035)	COPPER, DIS- SOLVED ($\mu\text{g/L}$ as Cu) (01040)	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	04-11-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	<1.0	<5	<3	<10	800‡	<10i	64‡	<10	<10
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	<1.0	<5	<3	<10	690‡	<10i	68‡	<10	<10
	07-09-90	--	--	--	--	--	--	--	--	--
	07-10-90	1.0	<5	<3	<10	96	<10i	17	<10	<10
	07-10-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	2.0	<5	<3	<10	130	<10i	39	<10	<10
	07-17-90	1.0	<5	<3	<10	100	<10i	38	<10	<10
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	<1.0	<5	<3	50	120	10i	63‡	<10	<10
	08-16-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	<1.0	<5	<3	<10	86	<10i	34	<10	<10
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	<1.0	<5	<3	70	180	<10i	11	<10	<10
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	09-22-90	<1.0	<5	<3	<10	87	<10i	2	<10	<10
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--
	01-07-91	<1.0	<5	<3	10	250	<10i	5	<10	<10
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-15-91	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	GROSS ALPHA, DIS- SOLVED ($\mu\text{g/L}$ as U-net) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS ($\mu\text{g/L}$ as U-net) (75986)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued											
09401000	04-11-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	<1.0	370	47	8	17	1	--	--	15†	2.8
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	<1.0	530	25	7	16	<1	--	--	8.1	1.8
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-10-90	<1.0	310	33	31	12	<1	--	--	7.6	1.8
	07-10-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	<1.0	500	16	12	13	1	--	--	11†	2.2
	07-17-90	<1.0	530	15	8	14	1	--	--	11†	2.2
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	<1.0	210	15	18	10	1	--	--	8.1	1.8
	08-16-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	<1.0	520	7	6	13	2	-83.0	-11.65	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	<1.0	420	8	13	12	2	-85.0	-11.65	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	<1.0	340	14	9	12	2	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	01-07-91	<1.0	130	24	34	6	<10	--	--	14†	3.1
	01-07-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-15-91	--	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--	--

CHEMICAL ANALYSES—Continued

380 Surface-Water Data—Chemical Analyses

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP, TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP TOT DRY (pCi/G as Sr-90/ Y-90) (76005)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (04102)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (75966)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Cs-137) (99922)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Cs-137) (99923)	Cs-137 SOIL, TOTAL, (pCi/G) (76007)	Cs-137 2 SIGMA SOIL, TOTAL, DRY WGT (pCi/G) (04103)	Ra-226 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75944)	
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued												
09401000	04-11-90	--	--	--	--	--	--	--	--	--	--	
	07-09-90	--	--	--	--	--	--	--	--	--	--	
	07-09-90	1.9	730*	230	--	--	--	--	--	--	--	
	07-09-90	--	--	--	--	--	--	--	--	--	--	
	07-09-90	2.2	950*	250	--	--	--	--	--	--	--	
	07-09-90	--	--	--	--	--	--	--	--	--	--	
	07-10-90	1.3	86*	29	--	--	--	--	--	--	--	
	07-10-90	--	--	--	--	--	--	--	--	--	--	
	07-17-90	--	--	--	--	--	--	--	--	--	--	
	07-17-90	--	--	--	--	--	--	--	--	--	--	
	07-17-90	--	--	--	--	--	--	--	--	--	--	
	07-17-90	1.7	980*	270	--	--	--	--	--	--	--	
	07-17-90	2.0	2100*	520	26	5.6	32.40	5.58	--	--	1.2	
	07-17-90	--	--	--	--	--	--	--	--	--	--	
	07-17-90	--	--	--	--	--	--	--	--	--	--	
	07-17-90	1.2	440*	190	24	5.5	31.20	5.52	--	--	1.3	
	08-16-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	18	4.5	22.80	4.49	--	--	1.3	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	08-17-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
	09-22-90	--	--	--	--	--	--	--	--	--	--	
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--	--	--	--		
09-22-90	--	--	--	--	--	--	--					

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	U-234	U-234	U-235	U-235	U-238	U-238	URANIUM NATURAL DIS- SOLVED (µg/L as U) (22703)	Th-230	Th-230	Th-232
		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75941)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75975)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75940)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75952)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)
		LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued									
09401000	04-11-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-10-90	--	--	--	--	--	--	9.2	--	--	--
	07-10-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	1.2	.20	<.1	ND	1.3	.26	--	1.2	.30	1.4
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	1.1	.20	.1	ND	1.0	.22	--	1.6	.40	1.6
	08-16-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	1.3	.30	<.1	ND	1.5	.29	--	1.5	.30	1.5
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	01-07-91	.9	.13	<.1	.02	1.1	.15	--	1.5	.22	1.5
	01-07-91	--	--	--	--	--	--	--	--	--	--
01-08-91	--	--	--	--	--	--	--	--	--	--	
01-08-91	--	--	--	--	--	--	--	--	--	--	
01-08-91	--	--	--	--	--	--	--	--	--	--	
01-15-91	--	--	--	--	--	--	--	--	--	--	
03-03-91	--	--	--	--	--	--	--	--	--	--	
03-03-91	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	Th-232	ALUM-	ARSENIC	BARIUM	BERYL-	BISMUTH	CADMIUM	CALCIUM	CERIUM	CHRO-
		2 SIGMA	INUM	BOT MAT	BOT MAT	LIUM	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75936)	BOT MAT <63μ DS LAB PERCENT (34792)	BOT MAT <63μ DS LAB (μg/G) (34802)	BOT MAT <63μ DS LAB (μg/G) (34807)	BOT MAT <63μ DS LAB (μg/G) (34812)	BOT MAT <63μ DS LAB (μg/G) (34817)	BOT MAT <63μ DS LAB (μg/G) (34827)	BOT MAT <63μ DS LAB PERCENT (34832)	BOT MAT <63μ DS LAB (μg/G) (34837)	BOT MAT <63μ DS LAB (μg/G) (34842)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued											
09401000	04-11-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	8.3	<10	430	2	<10	<2	3.0	54	48
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	8.8	<10	470	2	<10	<2	2.8	62	46
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-10-90	--	9.5	<10	620	2	<10	<2	2.4	64	50
	07-10-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	9.6	<10	510	2	<10	<2	2.8	71	48
	07-17-90	.30	9.8	10	530	2	<10	<2	2.7	72	52
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	.30	9.8	<10	520	2	<10	<2	2.5	70	49
	08-16-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	.30	9.3	<10	530	2	<10	<2	2.4	73	50
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	9.3	<10	540	2	<10	<2	2.4	72	50
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	8.6	<10	470	2	<10	<2	3.0	61	50
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	01-07-91	.22	8.6	<10	430	2	<10	<2	2.5	61	51
	01-07-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--	--
	01-15-91	--	--	--	--	--	--	--	--	--	--
03-03-91	--	--	--	--	--	--	--	--	--	--	
03-03-91	--	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	COBALT	COPPER	EURO- PIUM	GALLIUM	GOLD	HOLMIUM	IRON	LANTHA- NUM	LEAD	LITHIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)	(μg/G)	PERCENT	(μg/G)	(μg/G)	(μg/G)
		(34847)	(34852)	(34857)	(34862)	(34872)	(34877)	(34882)	(34887)	(34892)	(34897)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued											
09401000	04-11-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	14	23	<2	18	<8	<4	3.3	31	22	43
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-09-90	14	23	<2	18	<8	<4	3.5	35	21	41
	07-09-90	--	--	--	--	--	--	--	--	--	--
	07-10-90	15	24	<2	21	<8	<4	3.8	35	67	43
	07-10-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	15	25	<2	21	<8	<4	3.7	39	23	47
	07-17-90	15	26	<2	22	<8	<4	3.8	40	24	47
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--	--
	07-17-90	15	25	<2	22	<8	<4	3.8	39	22	47
	08-16-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	14	31	<2	21	<8	<4	3.5	39	21	42
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	14	25	<2	21	<8	<4	3.5	39	20	43
	08-17-90	--	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	14	25	<2	21	<8	<4	3.3	34	23	44
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	--	--	--	--	--
01-07-91	14	23	<2	20	<8	<4	3.4	34	20	43	
01-07-91	--	--	--	--	--	--	--	--	--	--	
01-08-91	--	--	--	--	--	--	--	--	--	--	
01-08-91	--	--	--	--	--	--	--	--	--	--	
01-08-91	--	--	--	--	--	--	--	--	--	--	
01-08-91	--	--	--	--	--	--	--	--	--	--	
01-15-91	--	--	--	--	--	--	--	--	--	--	
03-03-91	--	--	--	--	--	--	--	--	--	--	
03-03-91	--	--	--	--	--	--	--	--	--	--	

CHEMICAL ANALYSES—Continued

Surface-Water Data—Chemical Analyses 385

CHEMICAL ANALYSES—Continued

[illegible]

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	YTTRIUM	YTTER-	ZINC	SEDI-	SED.	SED.	SED.	SED.	SED.
		BOT MAT	BOT MAT	BOT MAT	MENT,	SIEVE	SIEVE	SIEVE	SIEVE	SIEVE
		<63 μ DS	<63 μ DS	<63 μ DS	SUS-	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
		LAB	LAB	LAB	PENDED	% FINER	% FINER	% FINER	% FINER	% FINER
		(μ g/G)	(μ g/G)	(μ g/G)	(mg/L)	.062 MM	.125 MM	.250 MM	.500 MM	1.00 MM
		(35012)	(35017)	(35022)	(80154)	(70331)	(70332)	(70333)	(70334)	(70335)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	04-11-90	--	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	95500	92	98	100	100	--
	07-09-90	20	2	56	79500	88	94	99	100	--
	07-09-90	--	--	--	63500	95	--	--	--	--
	07-09-90	23	2	60	60000	93	97	100	100	--
	07-09-90	--	--	--	52500	96	--	--	--	--
	07-10-90	23	2	87	51900	99	100	100	100	--
	07-10-90	--	--	--	49300	100	100	100	--	--
	07-17-90	--	--	--	164000	88	--	--	--	--
	07-17-90	--	--	--	147000	94	--	--	--	--
	07-17-90	--	--	--	129000	96	--	--	--	--
	07-17-90	24	3	74	77100	99	100	100	--	--
	07-17-90	25	3	77	85100	99	100	100	100	--
	07-17-90	--	--	--	81800	99	100	100	100	100
	07-17-90	--	--	--	82300	100	100	100	--	--
	07-17-90	25	3	79	87400	99	100	100	100	--
	08-16-90	--	--	--	84200	96	--	--	--	--
	08-17-90	--	--	--	100000	97	--	--	--	--
	08-17-90	--	--	--	97900	96	--	--	--	--
	08-17-90	--	--	--	109000	97	--	--	--	--
	08-17-90	--	--	--	93000	99	--	--	--	--
	08-17-90	--	--	--	97900	94	95	99	100	--
	08-17-90	25	3	76	92300	100	100	100	100	--
	08-17-90	--	--	--	92300	100	100	100	100	--
	08-17-90	25	3	75	E92300	--	--	--	--	--
	08-17-90	--	--	--	92100	99	--	--	--	--
	08-17-90	--	--	--	99700	91	93	98	100	--
	09-22-90	20	2	69	69100	--	--	--	--	--
	09-22-90	--	--	--	59600	100	--	--	--	--
	09-22-90	--	--	--	63900	--	--	--	--	--
	09-22-90	--	--	--	65600	100	--	--	--	--
	09-22-90	--	--	--	75700	--	--	--	--	--
	09-22-90	--	--	--	81600	98	--	--	--	--
	09-22-90	--	--	--	75700	--	--	--	--	--
	09-22-90	--	--	--	63100	99	--	--	--	--
	09-22-90	--	--	--	65100	--	--	--	--	--
	09-22-90	--	--	--	60900	100	--	--	--	--
	09-23-90	--	--	--	53000	--	--	--	--	--
	09-23-90	--	--	--	18400	97	--	--	--	--
	09-23-90	--	--	--	52500	--	--	--	--	--
	01-07-91	21	2	62	21700	--	--	--	--	--
	01-07-91	--	--	--	43500	--	--	--	--	--
	01-08-91	--	--	--	49400	--	--	--	--	--
	01-08-91	--	--	--	45200	--	--	--	--	--
	01-08-91	--	--	--	43000	95	--	--	--	--
	01-08-91	--	--	--	39900	97	--	--	--	--
	01-15-91	--	--	--	16500	--	--	--	--	--
	03-03-91	--	--	--	30000	95	--	--	--	--
	03-03-91	--	--	--	27000	95	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.
		% FINER THAN .002 MM (70337)	% FINER THAN .004 MM (70338)	% FINER THAN .008 MM (70339)	% FINER THAN .016 MM (70340)	% FINER THAN .031 MM (70341)	% FINER THAN .062 MM (70342)	% FINER THAN .125 MM (70343)	% FINER THAN .250 MM (70344)	% FINER THAN .500 MM (70345)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	04-11-90	--	--	--	--	--	--	--	--	--
	07-09-90	53	63	73	79	80	--	--	--	--
	07-09-90	55	--	--	--	--	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-09-90	59	72	82	90	91	--	--	--	--
	07-09-90	--	--	--	--	--	--	--	--	--
	07-10-90	72	86	95	98	99	--	--	--	--
	07-10-90	69	84	93	97	98	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	--	--	--	--	--	--	--	--	--
	07-17-90	62	76	88	96	98	--	--	--	--
	07-17-90	63	77	86	95	96	--	--	--	--
	07-17-90	63	73	88	96	100	--	--	--	--
	07-17-90	63	76	88	97	99	--	--	--	--
	07-17-90	62	77	89	98	99	100	100	100	--
	08-16-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	60	71	78	87	91	--	--	--	--
	08-17-90	65	75	86	95	99	--	--	--	--
	08-17-90	65	75	86	95	99	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	--	--	--	--	--	--	--	--	--
	08-17-90	58	69	78	86	90	--	--	--	--
	09-22-90	65	65	73	89	92	97	98	100	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	11	15	18	28	52	99	100	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	--	--	--	--	--	99	100	--	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	10	16	19	29	54	97	99	99	100
	09-22-90	--	--	--	--	--	--	--	--	--
	09-22-90	11	16	19	28	54	98	99	100	--
	09-22-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	99	100	--	--
	09-23-90	--	--	--	--	--	--	--	--	--
	09-23-90	--	--	--	--	--	99	100	--	--
	01-07-91	51	57	61	68	72	75	86	98	100
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	--	--	--	--	--	--
	01-15-91	--	--	--	--	--	--	--	--	--
	03-03-91	--	--	--	--	--	--	--	--	--
03-03-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09401000	LITTLE COLORADO RIVER AT GRAND FALLS, ARIZONA	03-04-91	0130	35°26'00"N	111°12'00"W
		03-04-91	0730		
		03-04-91	1330		
		03-04-91	1930		
		03-05-91	--		
		03-05-91	0130		
		03-05-91	1300		
		03-05-91	1038		
		03-08-91	0730		
		03-08-91	1140		
		03-08-91	1310		
		03-08-91	1750		
		03-08-91	1920		
		03-09-91	0100		
		03-09-91	0230		
		03-09-91	0330		
		04-04-91	0700		
		04-04-91	1640		
		04-05-91	0100		
		04-05-91	1920		
		04-05-91	1020		
		04-06-91	0500		
		04-06-91	1640		
		04-09-91	0030		
		04-09-91	0140		
		04-09-91	0220		
		04-09-91	0340		
		04-09-91	0440		
		04-09-91	1230		
		04-10-91	0100		
		04-10-91	0140		
		04-10-91	0200		
		04-10-91	0320		
		04-10-91	1920		
		04-10-91	2010		
		04-11-91	0210		
		04-11-91	0810		
		04-11-91	0950		
		05-01-91	1245		
		05-01-91	1255		
		05-09-91	1315		
		05-09-91	1315		
		09-06-91	1455		
		09-09-91	1445		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (meters) (00004)	TEMPER- ATURE WATER ("C) (00010)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	SPE- CIFIC CON- DUCT- ANCE (μ S/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μ S/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	50	--	--	57.2	--	--	--	--	--
	03-04-91	50	--	--	60.6	--	--	--	--	--
	03-04-91	50	--	--	58.1	--	--	--	--	--
	03-04-91	50	--	--	53.5	--	--	--	--	--
	03-05-91	3000	--	10.0	30.0	2.53	511	505	--	8.6
	03-05-91	50	--	--	47.9	--	--	--	--	--
	03-05-91	10	27.7	10.0	31.4	2.53	511	508	10.1	8.5
	03-05-91	2000	--	--	31.4	--	--	--	--	--
	03-08-91	50	--	--	48.4	--	--	--	--	--
	03-08-91	50	--	--	53.5	--	--	--	--	--
	03-08-91	50	--	--	58.9	--	--	--	--	--
	03-08-91	50	--	--	56.9	--	--	--	--	--
	03-08-91	50	--	--	58.3	--	--	--	--	--
	03-09-91	50	--	--	56.4	--	--	--	--	--
	03-09-91	50	--	--	60.3	--	--	--	--	--
	03-09-91	50	--	--	57.5	--	--	--	--	--
	04-04-91	50	--	--	42.5	2.65	330	--	--	8.3
	04-04-91	50	--	--	28.3	2.49	363	--	--	8.2
	04-05-91	50	--	--	37.1	2.58	350	--	--	8.3
	04-05-91	50	--	--	44.2	2.65	329	--	--	8.3
	04-05-91	50	--	--	43.0	2.65	328	--	--	8.3
	04-06-91	50	--	--	47.9	2.82	293	--	--	8.3
	04-06-91	50	--	--	42.5	--	--	--	--	--
	04-09-91	50	--	--	56.1	2.86	270	--	--	8.4
	04-09-91	50	--	--	56.1	2.86	271	--	--	8.4
	04-09-91	50	--	--	56.1	2.86	267	--	--	8.4
	04-09-91	50	--	--	56.4	2.86	272	--	--	8.4
	04-09-91	50	--	--	56.1	2.86	272	--	--	8.4
	04-09-91	50	--	--	58.1	2.92	269	--	--	8.6
	04-10-91	50	--	--	64.0	2.97	269	--	--	8.7
	04-10-91	50	--	--	64.3	2.97	258	--	--	8.7
	04-10-91	50	--	--	64.6	2.97	252	--	--	8.6
	04-10-91	50	--	--	64.9	2.98	232	--	--	8.7
	04-10-91	50	--	--	70.0	3.02	249	--	--	8.7
	04-10-91	50	--	--	70.8	3.03	254	--	--	8.7
	04-11-91	50	--	--	73.1	3.04	245	--	--	8.7
	04-11-91	50	--	--	72.5	3.04	242	--	--	8.7
	04-11-91	50	--	--	89.8	3.22	228	--	--	8.7
	05-01-91	70	21.3	14.5	6.8	2.03	343	--	8.6	8.0
	05-01-91	10	29.9	14.5	6.8	2.03	343	353	8.6	8.0
	05-09-91	10	16.5	16.0	2.0	1.79	610	--	--	7.8
	05-09-91	10	--	16.0	2.0	--	--	--	--	--
	09-06-91	10	2.7	21.5	.12	--	1910	--	7.0	8.0
	09-06-91	--	17.7	21.0	3.9	1.90	762	752	7.3	8.1

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LINITY WAT DIS FIX END FIELD CaCO3 (mg/L) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD mg/L as CaCO3 (39086)	ALKA- LINITY LAB (mg/L as CaCO3) (90410)	BICAR- BONATE WATER DIS IT FIELD mg/L as HCO3 (00453)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (metric tons per day) (70302)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	8.3	90	--	127	--	299	294	856	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	8.2	90	--	130	--	300	311	899	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	50	--	--	61	--	--	--	--
	05-01-91	8.4	50	63	65	61	--	180	117	--
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	156	--	193	--	--	--	--
	09-09-91	8.2	--	151	--	184	--	427	159	.070

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO4) (00660)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO3) (00900)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	93	23
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	96	28
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	51
	05-01-91	--	--	--	--	--	--	--	--	49
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--
	09-09-91	<.010	1.20	33	.200	19.0	.060	.18	--	31

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	6.7	1.4	96	9	90	1.5	50	.30	.40
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	7.1	2.5	94	8	87	2.0	48	.29	.40
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	15	3.1	49	3	--	--	--	--	--
	05-01-91	15	2.9	48	3	67	1.2	59	--	.10
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--
	09-09-91	9.3	1.9	150	12	91	2.3	75	1.5	.80

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)	BORON, DIS- SOLVED (μg/L as B) (01020)	CADMIUM DIS- SOLVED (μg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (μg/L as Cr) (01030)	COBALT, DIS- SOLVED (μg/L as Co) (01035)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	12	49	3	13	<.5	120	<1.0	<5	<3
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	30	46	3	19	<.5	120	<1.0	<5	<3
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	6.4	--	--	33	<.5	--	<1.0	<5	<3
	05-01-91	5.4	18	--	--	--	20	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--
	09-09-91	15	75	6	32	<.5	--	<1.0	<5	<3

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	COPPER, DIS- SOLVED (µg/L as Cu) (01040)	IRON, DIS- SOLVED (µg/L as Fe) (01046)	LEAD, DIS- SOLVED (µg/L as Pb) (01049)	MANGA- NESE, DIS- SOLVED (µg/L as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo) (01060)	NICKEL, DIS- SOLVED (µg/L as Ni) (01065)	SILVER, DIS- SOLVED (µg/L as Ag) (01075)	STRON- TIUM, DIS- SOLVED (µg/L as Sr) (01080)	VANA- DIUM, DIS- SOLVED (µg/L as V) (01085)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	10	500‡	<10i	5	<10	<10	<1.0	170	10
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	40	2200‡	<10i	24	<10	<10	<1.0	160	15
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	10	160	<10i	5	<10	<10	<1.0	360	<6
	05-01-91	--	50	--	2	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--
	09-09-91	10	51	<10i	2	<10	<10	<1.0	230	22

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ZINC, DIS- SOLVED (μg/L as Zn) (01090)	LITHIUM DIS- SOLVED (μg/L as Li) (01130)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	GROSS ALPHA SEDI- MENT (pCi/G) (01507)	GROSS ALPHA BOT MAT TOT DRY (μg/G as U-nat) (99920)	ALPHA, 2 SIGMA BOT MAT TOT DRY (μg/G as U-nat) (75965)	GROSS ALPHA BOT MAT DRY WGT (pCi/G as Th-230) (04125)	ALPHA 2 SIGMA BOT MAT TOT DRY (pCi/G as Th-230) (75955)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (04102)	
		LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued									
09401000	03-04-91	--	--	--	--	--	--	--	--	--	
	03-04-91	--	--	--	--	--	--	--	--	--	
	03-04-91	--	--	--	--	--	--	--	--	--	
	03-04-91	--	--	--	--	--	--	--	--	--	
	03-05-91	6	7	<1	<6	7.830	8.8	6	6.3	21	
	03-05-91	--	--	--	--	--	--	--	--	--	
	03-05-91	25	8	1	<6	5.170	7.2	3	4.6	17	
	03-05-91	--	--	--	--	--	--	--	--	--	
	03-08-91	--	--	--	--	--	--	--	--	--	
	03-08-91	--	--	--	--	--	--	--	--	--	
	03-08-91	--	--	--	--	--	--	--	--	--	
	03-08-91	--	--	--	--	--	--	--	--	--	
	03-08-91	--	--	--	--	--	--	--	--	--	
	03-09-91	--	--	--	--	--	--	--	--	--	
	03-09-91	--	--	--	--	--	--	--	--	--	
	03-09-91	--	--	--	--	--	--	--	--	--	
	04-04-91	--	--	--	--	--	--	--	--	--	
	04-04-91	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	
	04-05-91	--	--	--	--	--	--	--	--	--	
	04-06-91	--	--	--	--	--	--	--	--	--	
	04-06-91	--	--	--	--	--	--	--	--	--	
	04-09-91	--	--	--	--	--	--	--	--	--	
	04-09-91	--	--	--	--	--	--	--	--	--	
	04-09-91	--	--	--	--	--	--	--	--	--	
	04-09-91	--	--	--	--	--	--	--	--	--	
	04-09-91	--	--	--	--	--	--	--	--	--	
	04-09-91	--	--	--	--	--	--	--	--	--	
	04-10-91	--	--	--	--	--	--	--	--	--	
	04-10-91	--	--	--	--	--	--	--	--	--	
	04-10-91	--	--	--	--	--	--	--	--	--	
	04-10-91	--	--	--	--	--	--	--	--	--	
	04-10-91	--	--	--	--	--	--	--	--	--	
	04-10-91	--	--	--	--	--	--	--	--	--	
	04-11-91	--	--	--	--	--	--	--	--	--	
	04-11-91	--	--	--	--	--	--	--	--	--	
	04-11-91	--	--	--	--	--	--	--	--	--	
	05-01-91	25	<4	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--	--
	09-09-91	<3	10	1	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (75966)	GROSS BETA BOT MAT TOT DRY (pCi/G as Cs-137) (99922)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Cs-137) (99923)	URANIUM -234 WATER DISSOLV (pCi/L) (22610)	U-234 2 SIGMA WATER, DISS, (pCi/L) (75992)	U-234 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	U-234 2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75941)	URANIUM -235 WATER, DISS (pCi/L) (22620)	U-235 2 SIGMA WATER, DISS, (pCi/L) (75994)
		LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued								
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	5.0	26.80	5.01	2.5	.3	1.1	.10	<.1	ND
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	4.5	22.40	4.45	2.3	.3	1.1	.20	<.1	ND
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
04-11-91	--	--	--	--	--	--	--	--	--	
04-11-91	--	--	--	--	--	--	--	--	--	
05-01-91	--	--	--	--	--	--	--	--	--	
05-01-91	--	--	--	--	--	--	--	--	--	
05-09-91	--	--	--	--	--	--	--	--	--	
05-09-91	--	--	--	--	--	--	--	--	--	
09-06-91	--	--	--	--	--	--	--	--	--	
09-09-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	U-235	U-235	URANIUM -238 WATER DISSOLV (pCi/L) (22603)	U-238	U-238	U-238	U-238	Th-230	Th-230
		SED,	2 SIGMA		SED,	2 SIGMA	SED,	2 SIGMA	SED,	2 SIGMA
		SUSP,	SED,		SUSP,	SUSP,	SUSP,	SUSP,	SUSP,	SUSP,
		TOTAL,	TOTAL,		TOTAL,	TOTAL,	TOTAL,	TOTAL,	TOTAL,	TOTAL,
		DRY WGT	DRY WGT		DRY WGT	DRY WGT	DRY WGT	DRY WGT	DRY WGT	DRY WGT
		(pCi/G)	(pCi/G)		(pCi/L)	(pCi/L)	(pCi/G)	(pCi/G)	(pCi/G)	(pCi/G)
		(75975)	(75947)			(75991)	(75940)	(04113)	(75939)	(75952)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	<.1	ND	1.7	.20	1.2	.15	1.4	.19	
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	<.1	ND	1.5	.20	1.1	.16	1.5	.21	
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
05-09-91	--	--	--	--	--	--	--	--	--	
05-09-91	--	--	--	--	--	--	--	--	--	
09-06-91	--	--	--	--	--	--	--	--	--	
09-09-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	Th-232	2 SIGMA	ALUM-	ARSENIC	BARIUM	BERYL-	BISMUTH	CADMIUM	CALCIUM
		SED,	SED,	INUM	BOT MAT	BOT MAT	LIUM	BOT MAT	BOT MAT	BOT MAT
		SUSP,	SUSP,	BOT MAT	BOT MAT	BOT MAT	LIUM	BOT MAT	BOT MAT	BOT MAT
		TOTAL, DRY WGT (pCi/G) (75953)	TOTAL, DRY WGT (pCi/G) (75936)	<63μ DS LAB PERCENT (34792)	<63μ DS LAB (μg/G) (34802)	<63μ DS LAB (μg/G) (34807)	<63μ DS LAB (μg/G) (34812)	<63μ DS LAB (μg/G) (34817)	<63μ DS LAB (μg/G) (34827)	<63μ DS LAB PERCENT (34832)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	1.5	.20	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	1.3	.18	5.9	<10	660	1	<10	<2	4.9
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
04-10-91	--	--	--	--	--	--	--	--	--	
04-11-91	--	--	--	--	--	--	--	--	--	
04-11-91	--	--	--	--	--	--	--	--	--	
04-11-91	--	--	--	--	--	--	--	--	--	
05-01-91	--	--	--	--	--	--	--	--	--	
05-01-91	--	--	--	--	--	--	--	--	--	
05-09-91	--	--	--	--	--	--	--	--	--	
05-09-91	--	--	--	--	--	--	--	--	--	
09-06-91	--	--	--	--	--	--	--	--	--	
09-09-91	--	--	--	--	--	--	--	--	--	

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CERIUM	CHRO-	COBALT	COPPER	EURO-	GALLIUM	GOLD	HOLMIUM	IRON
		BOT MAT	MIMUM	BOT MAT	BOT MAT	PIUM	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT
		(34837)	(34842)	(34847)	(34852)	(34857)	(34862)	(34872)	(34877)	(34882)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	60	37	10	25	<2	13	<8	<4	2.2
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--
	09-09-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	LANTHA- NUM	LEAD	LITHIUM	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM	NEODYM- IUM	NICKEL	NIOBIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34887)	(34892)	(34897)	(34902)	(34907)	(34917)	(34922)	(34927)	(34932)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	34	16	29	1.0	620	<2	29	16	4
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--
	09-09-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	PHOS- PHORUS	POTAS- SIUM	SCAN- DIUM	SILVER	SODIUM	STRON- TIUM	TANTA- LUM	THORIUM	TIN
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT	PERCENT	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34937)	(34942)	(34947)	(34957)	(34962)	(34967)	(34977)	(34982)	(34987)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	.05	1.7	8	<4	.91	270	<40	9	<5
	03-05-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	05-09-91	--	--	--	--	--	--	--	--	--
	09-06-91	--	--	--	--	--	--	--	--	--
	09-09-91	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	TITA- NIUM	URANIUM	VANA- DIUM	YTTRIUM	YTTER- BIUM	ZINC	SEDI- MENT, SUS- PENDEd	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT		
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS		
		LAB	LAB	LAB	LAB	LAB	LAB	(mg/L)	
		PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(80154)	
		(34992)	(35002)	(35007)	(35012)	(35017)	(35022)		
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued									
09401000	03-04-91	--	--	--	--	--	--	25800	89
	03-04-91	--	--	--	--	--	--	33100	95
	03-04-91	--	--	--	--	--	--	32300	95
	03-04-91	--	--	--	--	--	--	26600	95
	03-05-91	--	--	--	--	--	--	21100	--
	03-05-91	--	--	--	--	--	--	26600	87
	03-05-91	.27	<100	59	20	2	45	22500	91
	03-05-91	--	--	--	--	--	--	22600	--
	03-08-91	--	--	--	--	--	--	17200	87
	03-08-91	--	--	--	--	--	--	15500	85
	03-08-91	--	--	--	--	--	--	15600	82
	03-08-91	--	--	--	--	--	--	14000	85
	03-08-91	--	--	--	--	--	--	15300	80
	03-09-91	--	--	--	--	--	--	20100	88
	03-09-91	--	--	--	--	--	--	15700	92
	03-09-91	--	--	--	--	--	--	17400	89
	04-04-91	--	--	--	--	--	--	17100	81
	04-04-91	--	--	--	--	--	--	12800	--
	04-05-91	--	--	--	--	--	--	15900	--
	04-05-91	--	--	--	--	--	--	12900	--
	04-05-91	--	--	--	--	--	--	12800	--
	04-06-91	--	--	--	--	--	--	11300	--
	04-06-91	--	--	--	--	--	--	11300	--
	04-09-91	--	--	--	--	--	--	16000	80
	04-09-91	--	--	--	--	--	--	17000	--
	04-09-91	--	--	--	--	--	--	13900	--
	04-09-91	--	--	--	--	--	--	10400	--
	04-09-91	--	--	--	--	--	--	14000	72
	04-09-91	--	--	--	--	--	--	10100	--
	04-10-91	--	--	--	--	--	--	12100	--
	04-10-91	--	--	--	--	--	--	14200	--
	04-10-91	--	--	--	--	--	--	9270	--
	04-10-91	--	--	--	--	--	--	10200	--
	04-10-91	--	--	--	--	--	--	7060	--
	04-10-91	--	--	--	--	--	--	11900	--
	04-11-91	--	--	--	--	--	--	15600	--
	04-11-91	--	--	--	--	--	--	11000	--
	04-11-91	--	--	--	--	--	--	29800	23
	05-01-91	--	--	--	--	--	--	--	--
	05-01-91	--	--	--	--	--	--	2500	91
	05-09-91	--	--	--	--	--	--	1320	38
	05-09-91	--	--	--	--	--	--	1320	38
	09-06-91	--	--	--	--	--	--	53900	100
	09-09-91	--	--	--	--	--	--	56900	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.	SED.
		SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.	SUSP.
		FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL	FALL
		DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.	DIAM.
		% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER	% FINER
		THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN	THAN
		.002 MM	.004 MM	.008 MM	.016 MM	.031 MM	.062 MM	.125 MM	.250 MM	.500 MM
		(70337)	(70338)	(70339)	(70340)	(70341)	(70342)	(70343)	(70344)	(70345)
LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued										
09401000	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-04-91	--	--	--	--	--	--	--	--	--
	03-05-91	61	65	71	83	89	96	100	--	--
	03-05-91	--	--	--	--	--	--	--	--	--
	03-05-91	38	44	52	64	77	91	98	99	100
	03-05-91	51	57	60	71	83	91	99	100	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-08-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	03-09-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-04-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-05-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-06-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-09-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-10-91	--	--	--	--	--	--	--	--	--
	04-11-91	--	--	--	--	--	--	--	--	--
04-11-91	--	--	--	--	--	--	--	--	--	
04-11-91	--	--	--	--	--	--	--	--	--	
05-01-91	--	--	--	--	--	--	--	--	--	
05-01-91	--	--	--	--	--	--	--	--	--	
05-09-91	--	--	--	--	--	--	--	--	--	
05-09-91	--	--	--	--	--	--	--	--	--	
09-06-91	93	94	96	98	98	--	--	--	--	
09-09-91	74	93	96	100	--	--	--	--	--	

SURFACE WATER—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
09402000	LITTLE COLORADO RIVER AT CAMERON, ARIZONA	02-22-90	1325	35°55'35"N	111°34'00"W
		04-13-90	1240		
		07-08-90	1740		
		07-12-90	1230		
		07-12-90	1530		
		07-23-90	1840		
		07-23-90	1845		
		08-19-90	1245		
		08-19-90	1248		
		08-21-90	1330		
		08-23-90	1330		
		09-12-90	1440		
		09-18-90	1230		
		09-18-90	1810		
		09-19-90	--		
		09-19-90	0440		
		09-19-90	1640		
		09-20-90	--		
		09-20-90	0740		
		09-20-90	1340		
		09-20-90	2240		
		09-21-90	0440		
		09-24-90	0130		
		09-24-90	0230		
		12-18-90	1310		
		01-07-91	1410		
		01-07-91	2030		
		01-08-91	1530		
		02-12-91	1330		
		03-07-91	1400		
		05-02-91	1315		
		08-30-91	1230		
		09-05-91	1300		
353730108312001	PIPELINE ARROYO	08-14-90	1449	35°37'30"N	108°31'20"W
		08-15-90	0010		
		08-15-90	1330		
352450108592401	MANUELITO WASH, U-59	08-16-90	0010	35°24'50"N	108°59'24"W
		10-19-90	0010		
		08-08-91	0010		
		08-16-91	--		
		08-16-91	2100		
09397300	LEROUX WASH NEAR HOLBROOK, ARIZONA	07-19-90	0010	34°54'18"N	110°12'03"W
		12-20-90	1300		

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ALTITUDE OF LAND SURFACE DATUM (meters above NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	STREAM WIDTH (meters) (00004)	TEMPER- ATURE WATER (°C) (00010)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	GAGE HEIGHT (meters) (00065)	TUR- BID- ITY (NTU) (00076)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)	SPE- CIFIC CON- DUCT- ANCE LAB (μS/cm) (90095)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	1210	10	16.8	4.0	1.2	.87	--	540	--
	04-13-90		10	11.0	13.0	.5	.80	--	1750	--
	07-08-90		50	--	--	42.8	--	--	--	--
	07-12-90		10	19.5	27.5	2.8	1.00	31000	1210	1210
	07-12-90		--	--	--	--	--	--	--	--
	07-23-90		50	--	--	75.9	--	--	--	1150
	07-23-90		50	--	--	75.6	--	--	--	--
	08-19-90		10	--	--	20.4	--	--	--	961
	08-19-90		2000	--	--	20.4	--	--	--	--
	08-21-90		10	--	--	4.7	--	--	--	--
	08-23-90		10	--	--	1.0	--	--	--	--
	09-12-90		70	--	--	.79	--	--	--	--
	09-18-90		70	--	--	9.6	--	--	--	--
	09-18-90		50	--	--	46.2	--	--	--	--
	09-19-90		3000	--	--	--	--	33000	1340	1390
	09-19-90		50	--	--	48.1	--	--	--	--
	09-19-90		50	--	--	38.2	--	--	--	--
	09-20-90		3000	--	--	--	--	--	--	--
	09-20-90		50	--	--	27.5	--	--	--	--
	09-20-90		50	--	--	27.5	--	--	--	--
	09-20-90		50	--	--	22.5	--	--	--	--
	09-21-90		50	--	--	51.0	--	--	--	--
	09-24-90		50	--	--	71.9	--	--	--	--
	09-24-90		50	--	--	72.5	--	--	--	--
	12-18-90		50	--	--	74.5	--	--	--	--
	01-07-91		50	--	--	73.3	--	--	--	--
	01-07-91		50	--	--	72.8	--	--	--	--
	01-08-91		10	30.5	2.0	63.2	2.04	33000	709	724
	02-12-91		70	--	--	.04	--	--	--	--
	03-07-91		10	27.4	6.5	36.0	1.69	6600	520	519
	05-02-91		10	29.9	14.0	6.0	1.12	1300	354	370
	08-30-91		70	--	--	.34	--	--	--	--
	09-05-91		10	7.3	21.0	.51	.83	60000	1250	1240

PIPELINE ARROYO—Continued

353730108312001	08-14-90	2070	--	--	--	--	--	--	--	--
	08-15-90		--	--	--	--	--	--	--	--
	08-15-90		50	--	--	--	--	--	--	793

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90		--	--	--	--	--	--	--	--
	08-08-91		--	--	--	--	--	--	--	--
	08-16-91		--	--	--	--	--	--	--	--
	08-16-91		--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90		30	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (mg/L) (00340)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LINITY WAT DIS FIX END FIELD CaCO3 (mg/L) (39036)	ALKA- LINITY WAT DIS TOT IT FIELD mg/L as CaCO3 (39086)	ALKA- LINITY LAB (mg/L as CaCO3) (90410)	BICAR- BONATE WATER DIS IT FIELD mg/L as HCO3 (00453)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)
-------------------	------	--	--	--	--	--	--	--	--	---

LITTLE COLORADO RIVER AT CAMERON, AZ—Continued

09402000	02-22-90	11.4	--	9.0	--	140	144	--	176	--
	04-13-90	8.9	--	8.4	--	135	--	--	170	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	8.6	580	8.1	7.9	140	173	225	--	676
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	--	--	--	7.8	--	--	194	--	662
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	--	--	--	8.0	--	--	257	--	548
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	2000	7.8	7.8	--	--	134	--	1050
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	12.2	570	8.6	8.3	160	160	241	195	445
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	10.1	430	8.5	8.3	120	--	104	--	297
	05-02-91	8.8	63	8.0	8.2	71	--	76	88	252
	08-30-91	--	--	7.8	--	--	--	--	--	--
	09-05-91	6.9	5400	7.5	7.5	--	85	265	101	918

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	7.8	--	--	176	--	573

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (tons per day) (70302)	RESIDUE TOTAL AT 10°C SUS- PENDED (mg/L) (00530)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N) (00613)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as N) (00618)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, NITRATE DIS- SOLVED (mg/L as NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as NO2) (71856)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	721	183	13300	--	.030	1.07	1.10	4.7	.10
	07-12-90	--	--	--	.930	--	--	--	--	--
	07-23-90	663	4790	--	--	--	--	--	--	--
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	559	1070	--	--	--	--	--	--	--
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	1010	--	6030	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	394	2680	46000	--	--	--	--	--	--
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	289	1020	1610	.060	<.010	--	.430	--	--
	05-02-91	196	145	2180	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	939	45.6	1550	.030	.010	8.59	8.60	38	.03

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	530	--	--	--	--	--	--	--	--

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO ₄) (00660)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	29	.190	33.0	.050	.15	--	57	17	3.4
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	--	--	--	--	--	--	71	22	3.8
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	--	--	--	--	--	--	47	15	2.2
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	430	130	24
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	16	--	20.0	--	--	190	19	5.6	1.1
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	7.5	.190	5.20	.080	.25	120	21	6.4	1.2
	05-02-91	.90	--	.960	--	--	--	55	16	3.7
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	4.1	.100	29.0	<.010	--	--	490	150	27
PIPELINE ARROYO—Continued										
353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	370	110	22
MANUELITO WASH, U-59—Continued										
352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued										
09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	230	13	89	3.8	190	.37	.70	23	110
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	210	11	86	3.2	120	.14	.70	16	170
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	170	11	88	2.6	72	.040	.60	12	130
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	140	3	41	6.5	30	.030	.50	10	590
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	140	14	93	2.1	68	2.0	.70	11	67
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	100	10	91	1.5	51	.70	.50	8.1	55
	05-02-91	50	3	65	1.7	58	--	.10	6.3	17
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	86	2	27	9.8	23	.39	.70	12	540

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	21	.5	11	7.4	8.3	.040	.50	12	240

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ARSENIC DIS- SOLVED ($\mu\text{g/L}$ as As) (01000)	ARSENIC TOTAL ($\mu\text{g/L}$ as As) (01002)	BARIUM, DIS- SOLVED ($\mu\text{g/L}$ as Ba) (01005)	BERYL- LIUM, DIS- SOLVED ($\mu\text{g/L}$ as Be) (01010)	BORON, DIS- SOLVED ($\mu\text{g/L}$ as B) (01020)	CADMIUM DIS- SOLVED ($\mu\text{g/L}$ as Cd) (01025)	CHRO- MIUM, DIS- SOLVED ($\mu\text{g/L}$ as Cr) (01030)	COBALT, DIS- SOLVED ($\mu\text{g/L}$ as Co) (01035)	COPPER, DIS- SOLVED ($\mu\text{g/L}$ as Cu) (01040)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	5	10	240	<.5	490	2.0	2	<3	7
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	3	--	170	<.5	370	2.0	<5	<3	<10
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	4	--	130	<.5	290	<1.0	<5	<3	<10
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	<1	27	160	<.5	160	<1.0	<5	<3	<10
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	5	12	16	<.5	260	<1.0	<5	<3	20
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	2	11	25	<.5	110	<1.0	<5	<3	10
	05-02-91	1	5	77	--	130	<1.0	<1	--	2
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	2	110	160	<.5	140	<1.0	<1	<3	11

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	4	--	120	<.5	110	1.0	<5	7	<10

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$) as Mn) (01056)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	610	3	25	<10	<10	<1.0	470	24	72
	07-12-90	200	--	70	--	--	--	--	--	--
	07-23-90	120	<10	61	<10	<10	<1.0	540	13	15
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	100	<10	7	<10	<10	2.0	330	14	8
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	11	<10	35	<10	<10	<1.0	2100	<6	<3
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	130	<10	5	10	<10	<1.0	150	16	3
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	160	<10	2	<10	<10	<1.0	160	8	<3
	05-02-91	10	<1	2	--	--	<1.0	--	--	<3
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	18	<1	1	<10	<10	<1.0	1600	<6	3
PIPELINE ARROYO—Continued										
353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	700	<10	1600	<10	<10	<1.0	820	<6	5
MANUELITO WASH, U-59—Continued										
352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued										
09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ANTI- MONY, TOTAL (μg/L as Sb) (01097)	LITHIUM DIS- SOLVED (μg/L as Li) (01130)	SELE- NIUM, DIS- SOLVED (μg/L as Se) (01145)	SELE- NIUM, TOTAL (μg/L as Se) (01147)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL as (pCi/L) (07000)	GROSS ALPHA, DIS- SOLVED (μg/L as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS (μg/L as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL (μg/L as U-nat) (80040)
		LITTLE COLORADO RIVER AT CAMERON, AZ—Continued									
09402000	02-22-90	--	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--	--
	07-12-90	--	19	1	<3	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--	--
	07-23-90	--	14	1	--	--	--	--	15	2.8	2000
	07-23-90	--	--	--	--	--	--	--	--	--	--
	08-19-90	--	11	2	--	-80.5	-11.05	--	--	--	--
	08-19-90	--	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--	--
	09-19-90	--	26	3	10	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--	--
	01-08-91	7	5	<3	<10	--	--	--	18	3.6	--
	02-12-91	--	--	--	--	--	--	--	--	--	--
	03-07-91	--	7	<1	4	--	--	--	--	--	--
	05-02-91	<1	--	<1	<2	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--	--
	09-05-91	29	18	2	3	--	--	--	--	--	--
PIPELINE ARROYO—Continued											
353730108312001	08-14-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--	--
	08-15-90	--	17	2	--	-90.5	-13.25	22	--	--	--
MANUELITO WASH, U-59—Continued											
352450108592401	08-16-90	--	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--	--
LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued											
09397300	07-19-90	--	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	GROSS ALPHA SEDI- MENT (pCi/G) (01507)	GROSS ALPHA BOT MAT TOT DRY $\mu\text{g/G}$ as U-nat (99920)	ALPHA, 2 SIGMA, BOT MAT TOT DRY U-nat ($\mu\text{g/G}$) (75965)	GROSS ALPHA BOT MAT TOT DRY (pCi/G) as Th-230 (04125)	ALPHA, 2 SIGMA BOT MAT, TOT DRY (pCi/G) as Th-230 (75955)	GROSS BETA, DIS- SOLVED (pCi/L) as Cs-137 (03515)	BETA, 2 SIGMA, WATER, DISS, (pCi/L) as Cs-137 (75989)	GROSS BETA, SUSP. TOTAL (pCi/L) as Cs-137 (03516)	GROSS BETA, DIS- SOLVED (pCi/L) as Sr-90/ Y-90 (80050)
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LITTLE COLORADO RIVER AT CAMERON, AZ—Continued

09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	--	--	--	--	--	13	3.0	830	9.4
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	15	21.30	11	15	8.1	--	--	--	--
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	11	13.80	9.8	11	7.5	9.0	2.0	--	6.9
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	<6	6.55	7.6	5	5.9	--	--	--	--
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY (pCi/G as Sr-90/ Y-90) (76005)	GROSS BETA, BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (04102)	BETA 2 SIGMA BOT MAT TOT DRY (pCi/G as Sr-90/ Y-90) (75966)	GROSS BETA BOT MAT TOT DRY (pCi/G as Cs-137) (99922)	BETA, 2 SIGMA BOT MAT TOT DRY (pCi/G as Cs-137) (99923)	Cs-137 SOIL, TOTAL, (pCi/G) (76007)	Cs-137 2 SIGMA SOIL, TOTAL, DRY WGT (pCi/G) (04103)
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LITTLE COLORADO RIVER AT CAMERON, AZ—Continued

09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	2.2	750	240	--	--	--	--	--	--
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	--	--	--	23	5.4	29.70	5.41	--	--
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	1.5	--	--	8	3.0	10.10	3.04	.17	.040
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	--	--	--	20	4.8	25.10	4.76	--	--
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	.14	.030
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	.03	.010
	10-19-90	--	--	--	--	--	--	--	.15	.020
	08-08-91	--	--	--	--	--	--	--	.01	.010
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	.09	.020
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	Re-226	URANIUM	U-234	U-234	U-234	URANIUM	U-235	U-235	U-235
		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75944)	-234 WATER DISSOLV (pCi/L) (22610)	2 SIGMA WATER, DISS, (pCi/L) (75992)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	2 SIGMA SUSP, TOTAL, DRY WGT (pCi/G) (75941)	-235 WATER, DISS (pCi/L) (22620)	2 SIGMA WATER, DISS, (pCi/L) (75994)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75975)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	--	--	--	--	--	--	--	--	--
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	1.3	--	--	1.0	.20	--	--	<.1	ND
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	--	1.0	.15	--	--	<.1	.03
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	--	2.1	.2	.8	.10	<.1	ND	<.1	ND
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	.8	--	--	.8	.10	--	--	<.1	ND
	08-16-91	.8	--	--	.8	.10	--	--	<.1	<.02

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	URANIUM	U-238	U-238	U-238	Th-230	Th-230	Th-232	Th-232	ALUM-
		-238 WATER DISSOLV (pCi/L) (22603)	2 SIGMA WATER, DISS, (pCi/L) (75991)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75940)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75952)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75936)	INUM BOT MAT <63μ DS LAB PERCENT (34792)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	9.9
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	--	--	--	--	--	--	--	--	9.2
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	--	--	1.1	.23	1.2	.30	1.7	.40	9.4
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	9.0
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	--	--	1.0	.02	1.4	.19	1.5	.20	7.8
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	1.5	.20	.9	.12	1.2	.16	1.2	.17	5.0
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--
PIPELINE ARROYO—Continued										
353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	8.0
	08-15-90	--	--	--	--	--	--	--	--	8.7
MANUELITO WASH, U-59—Continued										
352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	7.0
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	.9	.12	2.0	.25	1.6	<.21	--
	08-16-91	--	--	.8	.10	.8	.12	.7	<.11	--
LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued										
09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	ARSENIC	BARIUM	BERYL-	BISMUTH	CADMIUM	CALCIUM	CERIUM	CHRO-	COBALT
		BOT MAT	BOT MAT	LIUM	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)
		(34802)	(34807)	(34812)	(34817)	(34827)	(34832)	(34837)	(34842)	(34847)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	<10	400	3	<10	<2	1.9	63	44	15
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	<10	520	2	<10	<2	2.6	77	30	13
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	<10	520	2	<10	<2	2.3	73	50	14
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	<10	480	2	<10	<2	3.1	81	52	13
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	<10	480	2	<10	<2	2.7	58	42	12
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	<10	650	1	<10	<2	4.2	50	28	8
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	<10	650	2	<10	<2	1.1	93	46	10
	08-15-90	<10	580	2	<10	<2	.96	91	43	12

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	<10	640	2	<10	<2	3.2	81	42	11
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	COPPER	EURO-	GALLIUM	GOLD	HOLMIUM	IRON	LANTHA-	LEAD	LITHIUM
		BOT MAT	PIUM	BOT MAT	BOT MAT	BOT MAT	BOT MAT	NUM	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)	(μ g/G)
		(34852)	(34857)	(34862)	(34872)	(34877)	(34882)	(34887)	(34892)	(34897)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	23	<2	22	<8	<4	3.8	35	22	41
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	30	<2	20	<8	<4	3.5	43	24	39
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	27	<2	21	<8	<4	3.5	40	21	43
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	27	<2	22	<8	<4	3.2	45	21	47
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	22	<2	18	<8	<4	3.0	33	19	38
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	18	<2	11	<8	<4	1.7	28	15	24
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--
PIPELINE ARROYO—Continued										
353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	22	<2	20	<8	<4	2.6	50	23	31
	08-15-90	20	<2	19	<8	<4	2.8	48	22	34
MANUELITO WASH, U-59—Continued										
352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	19	<2	17	<8	<4	2.8	41	18	34
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued										
09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM	NEODYM- IUM	NICKEL	NIOBIUM	PHOS- PHORUS	POTAS- SIUM	SCAN- DIUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT (34902)	(μg/G) (34907)	(μg/G) (34917)	(μg/G) (34922)	(μg/G) (34927)	(μg/G) (34932)	PERCENT (34937)	PERCENT (34942)	(μg/G) (34947)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	1.9	510	<2	30	22	11	.06	1.8	14
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	1.3	460	<2	35	16	11	.05	1.9	12
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	1.5	530	<2	33	19	10	.05	1.8	14
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	1.3	430	<2	39	22	12	.05	1.9	13
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	1.5	490	<2	27	21	8	.06	1.8	11
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	.83	530	<2	22	11	<4	.04	1.9	6
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--
PIPELINE ARROYO—Continued										
353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	.66	280	<2	40	17	14	.05	2.1	11
	08-15-90	.71	290	<2	40	14	11	.05	1.9	13
MANUELITO WASH, U-59—Continued										
352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	.94	330	<2	34	16	12	.06	2.0	9
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued										
09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SILVER	SODIUM	STRON-	TANTA-	THORIUM	TIN	TITA-	URANIUM	VANA-
		BOT MAT	BOT MAT	TIUM	LUM	BOT MAT	BOT MAT	NIUM	BOT MAT	DIUM
		<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS	<63μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μg/G)	PERCENT	(μg/G)	(μg/G)	(μg/G)	(μg/G)	PERCENT	(μg/G)	(μg/G)
		(34957)	(34962)	(34967)	(34977)	(34982)	(34987)	(34992)	(35002)	(35007)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued										
09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	--	--	--
	07-12-90	<4	.46	340	<40	14	<10	.34	<100	87
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	<4	.38	320	<40	14	<10	.35	<100	81
	07-23-90	--	--	--	--	--	--	--	--	--
	08-19-90	<4	.41	280	<40	15	<10	.42	<100	96
	08-19-90	--	--	--	--	--	--	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	<4	.37	230	<40	16	<5	.37	<100	90
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	<4	.61	290	<40	11	<5	.33	<100	74
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	<4	.98	230	<40	7	<5	.22	<100	44
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	--	--	--	--	--	--	--	--
PIPELINE ARROYO—Continued										
353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	<4	.58	150	<40	16	13	.42	<100	84
	08-15-90	<4	.39	140	<40	17	<10	.42	<100	93
MANUELITO WASH, U-59—Continued										
352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	<4	.69	210	<40	12	<5	.36	<100	70
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued										
09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	YTTRIUM	YTTER-	ZINC	SEDI-	SED.	SED.	SED.	SED.
		BOT MAT	BIUM	BOT MAT	MENT,	SIEVE	SIEVE	SIEVE	SIEVE
		<63 μ DS	BOT MAT	<63 μ DS	SUS-	DIAM.	DIAM.	DIAM.	DIAM.
		LAB	LAB	LAB	PENDED	% FINER	% FINER	% FINER	% FINER
		(μ g/G)	(μ g/G)	(μ g/G)	(mg/L)	.062 MM	.125 MM	.250 MM	.500 MM
		(35012)	(35017)	(35022)	(80154)	(70331)	(70332)	(70333)	(70334)
LITTLE COLORADO RIVER AT CAMERON, AZ—Continued									
09402000	02-22-90	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	62900	97	--	--	--
	07-12-90	24	3	66	67000	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--
	07-23-90	25	3	67	25000	88	97	100	100
	07-23-90	--	--	--	26500	88	97	100	100
	08-19-90	25	3	75	78000	98	99	100	100
	08-19-90	--	--	--	75100	98	99	100	100
	08-21-90	--	--	--	88200	100	--	--	--
	08-23-90	--	--	--	89500	100	--	--	--
	09-12-90	--	--	--	118000	100	--	--	--
	09-18-90	--	--	--	116000	91	--	--	--
	09-18-90	--	--	--	125000	87	--	--	--
	09-19-90	25	2	91	98900	--	--	--	--
	09-19-90	--	--	--	67700	96	--	--	--
	09-19-90	--	--	--	97100	92	--	--	--
	09-20-90	--	--	--	84100	--	--	--	--
	09-20-90	--	--	--	121000	97	--	--	--
	09-20-90	--	--	--	118000	--	--	--	--
	09-20-90	--	--	--	98300	97	--	--	--
	09-21-90	--	--	--	139000	86	--	--	--
	09-24-90	--	--	--	64900	99	--	--	--
	09-24-90	--	--	--	73400	--	--	--	--
	12-18-90	--	--	--	87800	--	--	--	--
	01-07-91	--	--	--	50400	--	--	--	--
	01-07-91	--	--	--	72000	--	--	--	--
	01-08-91	20	2	57	85500	70	71	84	97
	02-12-91	--	--	--	111	--	--	--	--
	03-07-91	18	2	36	46100	77	79	90	99
	05-02-91	--	--	--	4000	75	--	--	--
	08-30-91	--	--	--	91200	--	--	--	--
	09-05-91	--	--	--	139000	--	--	--	--

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--
	08-15-90	26	3	78	--	--	--	--	--
	08-15-90	26	3	83	--	--	--	--	--

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--
	10-19-90	23	2	66	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	6650	100	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	SED. SUSP. SIEVE DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.	SED. SUSP. FALL DIAM.
		% FINER THAN 1.00 MM (70335)	% FINER THAN .002 MM (70337)	% FINER THAN .004 MM (70338)	% FINER THAN .008 MM (70339)	% FINER THAN .016 MM (70340)	% FINER THAN .031 MM (70341)	% FINER THAN .062 MM (70342)	% FINER THAN .125 MM (70343)	% FINER THAN .250 MM (70344)

LITTLE COLORADO RIVER AT CAMERON, AZ—Continued

09402000	02-22-90	--	--	--	--	--	--	--	--	--
	04-13-90	--	--	--	--	--	--	--	--	--
	07-08-90	--	--	--	--	--	--	97	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-12-90	--	--	--	--	--	--	--	--	--
	07-23-90	--	36	49	61	70	79	--	--	--
	07-23-90	100	46	56	66	74	82	--	--	--
	08-19-90	--	66	77	86	92	96	--	--	--
	08-19-90	--	68	80	89	93	96	--	--	--
	08-21-90	--	--	--	--	--	--	--	--	--
	08-23-90	--	--	--	--	--	--	--	--	--
	09-12-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-18-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	66	69	75	82	92	96	99	100
	09-19-90	--	--	--	--	--	--	--	--	--
	09-19-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-20-90	--	--	--	--	--	--	--	--	--
	09-21-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	09-24-90	--	--	--	--	--	--	--	--	--
	12-18-90	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-07-91	--	--	--	--	--	--	--	--	--
	01-08-91	100	45	54	--	61	64	--	--	--
	02-12-91	--	--	--	--	--	--	--	--	--
	03-07-91	100	47	49	54	61	70	--	--	--
	05-02-91	--	--	--	--	--	--	--	--	--
	08-30-91	--	--	--	--	--	--	--	--	--
	09-05-91	--	77	93	97	97	100	--	--	--

PIPELINE ARROYO—Continued

353730108312001	08-14-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--
	08-15-90	--	--	--	--	--	--	--	--	--

MANUELITO WASH, U-59—Continued

352450108592401	08-16-90	--	--	--	--	--	--	--	--	--
	10-19-90	--	--	--	--	--	--	--	--	--
	08-08-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--
	08-16-91	--	--	--	--	--	--	--	--	--

LEROUX WASH NEAR HOLBROOK, ARIZONA—Continued

09397300	07-19-90	--	--	--	--	--	--	--	--	--
	12-20-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	STATION NAME	DATE	TIME	LATITUDE	LONGITUDE
353156108362301	SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE, NEW MEXICO	05-17-90	1200	35°31'56"N	108°36'23"W
353727108312401	PIPELINE ARROYO U-59	08-14-90 08-14-90 08-14-90	1353 1420 1738	35°37'27"N	108°31'24"W
353151108361301	SOUTH FORK PUERCO U-59	10-19-90 08-15-91	0010 1030	35°31'51"N	108°36'13"W
352359107382110	SAN MATEO	05-01-90	1538	35°23'59"N	107°38'21"W
353535107112701	CHICO ARROYO	05-18-90	1400	35°35'35"N	107°11'37"W
354020107043302	RIO PUERCO	05-18-90 08-18-90	1200 0010	35°40'20"N	107°04'33"W
353104108490201	GALLUP SEWAGE TREATMENT PLANT	03-27-89 03-08-90 03-09-90 08-03-90	1700 0815 0730 0920	35°31'04"N	108°49'02"W
353056108504402	BRIDGE 83	03-31-89 08-03-90 10-16-90	1630 0725 0800	35°31'00"N	108°46'00"W
351942109041402	PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	1400	35°19'42"N	109°04'14"W
351933109041901	PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	1200	35°19'33"N	109°04'19"W
345351110094402 110°09'44"W	HOLBROOK SURFACE-WATER DATA	05-15-90	0900	34°53'51"N	
351527109161902 109°16'19"W	QUERINO ROAD SURFACE-WATER DATA	04-04-89 03-08-90	1700 1510	35°15'27"N	
351244109194901	PUERCO RIVER AT SANDERS, ARIZONA	03-09-90	1630	35°12'44"N	109°19'49"W

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	ALTITUDE OF LAND SURFACE DATUM (METERS ABOVE NGVD) (72000)	SAM- PLING METHOD, CODES (82398)	TEMPER- ATURE WATER (°C) (00010)	FLOW RATE, INSTAN- TANEOUS (LITERS/ SEC) (00059)	DIS- CHARGE, INST. CUBIC METERS PER SECOND (00061)	TUR- BID- ITY (NTU) (00076)	OXID- ATION RED- UCTION POTEN- TIAL (mV) (00090)	SPE- CIFIC CON- DUCT- ANCE (μS/cm) (00095)
MISCELLANEOUS SURFACE-WATER DATA SITES—Continued									
SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE	05-17-90	2070	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	2079	--	--	--	--	--	--	--
	08-14-90		--	--	--	--	--	--	--
	08-14-90		--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	2024	--	--	--	--	--	--	--
	08-15-91		--	--	--	--	--	--	--
SAN MATEO	05-01-90	2175	--	21.0	--	.12	--	--	1170
CHICO ARROYO	05-18-90	1798	--	--	--	--	--	--	--
RIO PUERCO	05-18-90	1878	--	18.5	E3.15	--	--	--	7660
	08-18-90		--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	1960	--	16.0	--	E1.42	6.5	--	1950
	03-08-90		--	14.0	--	--	--	--	--
	03-09-90		--	--	--	--	--	--	--
	08-03-90		--	--	--	--	--	--	--
BRIDGE 83	03-31-89	1932	--	21.5	--	--	82	297	2020
	08-03-90		--	--	--	--	--	--	--
	10-16-90		--	6.0	--	--	--	--	1710
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	1865	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	6.0	--	--
HOLBROOK	05-15-90	1800	--	17.5	--	--	--	--	1450
QUERINO ROAD	04-04-89	1792	--	18.0	--	.14	1200	276	845
	03-08-90		--	--	--	--	1.0	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	15.0	--	--	25	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SPE- CIFIC CON- DUCT- ANCE LAB (μ S/cm) (90095)	OXYGEN, DIS- SOLVED (mg/L) (00300)	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (mg/L) (00340)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND- ARD UNITS) (00403)	ALKA- LITY WAT DIS FIX END FIELD CaCO3 (mg/L) (39036)	ALKA- LITY WAT DIS TOT IT FIELD mg/L as CaCO3 (39086)	ALKA- LITY LAB (mg/L as CaCO3) (90410)
--------------	------	---	--	--	--	--	--	--	--

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	1140	6.4	--	8.9	8.8	240	244	--
CHICO ARROYO	05-18-90	2900	--	--	--	8.4	--	--	389
RIO PUERCO	05-18-90	689	6.5	--	8.1	8.0	--	167	85
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	1990	6.4	110	7.6	7.5	410	408	413
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	1760	--	--	--	7.4	--	--	280
BRIDGE 83	03-31-89	1960	8.3	84	--	7.6	430	--	412
	08-03-90	1790	--	--	--	7.5	--	--	270
	10-16-90	1760	9.0	--	8.0	7.2	231	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	8.4	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	7.8	--	--	278
HOLBROOK	05-15-90	1460	7.0	--	8.6	8.4	--	--	189
QUERINO ROAD	04-04-89	845	6.9	28	8.2	8.2	220	216	208
	03-08-90	--	--	--	--	8.0	--	--	265
PUERCO RIVER AT SANDERS	03-09-90	1760	--	--	--	7.9	--	--	260

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	CAR- BONATE WATER DIS IT FIELD mg/L as CO3 (00452)	BICAR- BONATE WATER DIS IT FIELD mg/L as HCO3 (00453)	SOLIDS, RESIDUE AT 180°C DIS- SOLVED (mg/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L) (70301)	SOLIDS, DIS- SOLVED (metric tons per day) (70302)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N) (00608)	NITRO- GEN, NO2+NO3 DIS- SOLVED (mg/L as N) (00631)	NITRO- GEN, AM- MONIA + ORGANIC TOTAL (mg/L as N) (00625)
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MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	22	254	--	717	7.54	--	<.100	--
CHICO ARROYO	05-18-90	--	--	--	--	--	--	--	--
RIO PUERCO	05-18-90	--	204	--	537	--	--	--	--
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	497	1210	1230	--	1.60	<.100	39
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	1040	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	1230	1310	--	24.0	.290	29
	08-03-90	--	--	1050	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	1250	--	--	--	--	--
HOLBROOK	05-15-90	--	--	--	1210	--	<.002	<.010	--
QUERINO ROAD	04-04-89	--	229	536	499	6.57	.050	1.90	1.0
	03-08-90	--	--	1190	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	1190	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	PHOS- PHORUS DIS- SOLVED (mg/L as P) (00666)	PHOS- PHORUS TOTAL (mg/L as P) (00665)	PHOS- PHORUS ORTHO, DIS- SOLVED (mg/L as P) (00671)	PHOS- PHATE, ORTHO, DIS- SOLVED (mg/L as PO ₄) (00660)	CARBON, ORGANIC DIS- SOLVED (mg/L as C) (00681)	CARBON, ORGANIC TOTAL (mg/L as C) (00680)	HARD- NESS TOTAL (mg/L as CaCO ₃) (00900)	CALCIUM DIS- SOLVED (mg/L as Ca) (00915)
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MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	--	--	--	--	--	--	25	8.0
CHICO ARROYO	05-18-90	--	--	--	--	--	--	220	48
RIO PUERCO	05-18-90	--	--	--	--	--	--	230	65
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	8.90	11.0	1.20	3.7	8.8	36	78	21
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	8.10	8.40	6.20	19	15	33	83	23
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	52
HOLBROOK	05-15-90	--	--	.001	ND	3.4	--	310	68
QUERINO ROAD	04-04-89	.340	.360	.280	.86	8.7	27	240	63
	03-08-90	--	--	--	--	--	--	--	63
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	64

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg) (00925)	SODIUM, DIS- SOLVED (mg/L as Na) (00930)	SODIUM ADSORP- TION RATIO (00931)	SODIUM PERCENT (00932)	POTAS- SIUM, DIS- SOLVED (mg/L as K) (00935)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl) (00940)	BROMIDE DIS- SOLVED (mg/L as Br) (71870)	FLUO- RIDE, DIS- SOLVED (mg/L as F) (00950)
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MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	1.1	250	22	95	2.0	13	.050	.90
CHICO ARROYO	05-18-90	24	610	18	85	5.3	56	.10	1.3
RIO PUERCO	05-18-90	17	67	2	38	3.5	5.3	--	.40
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	6.2	380	19	90	11	150	.25	1.6
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	9.3	100	.090	.80
BRIDGE 83	03-31-89	6.2	380	18	89	12	150	.24	1.7
	08-03-90	--	--	--	--	9.8	110	.090	.80
	10-16-90	--	--	--	--	9.6	120	.010	1.4
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	6.9	110	.070	1.2
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	13	330	--	--	8.1	97	--	1.1
HOLBROOK	05-15-90	35	170	4	54	5.0	520†	.080	.20
QUERINO ROAD	04-04-89	20	78	2	41	5.7	54	--	.50
	03-08-90	14	300	--	--	6.3	110	--	1.0
PUERCO RIVER AT SANDERS	03-09-90	15	300	--	--	6.9	110	--	1.0

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	SILICA, DIS- SOLVED (mg/L as SiO ₂) (00955)	SULFATE DIS- SOLVED (mg/L as SO ₄) (00945)	ARSENIC DIS- SOLVED (μg/L as As) (01000)	BARIUM, DIS- SOLVED (μg/L as Ba) (01005)	BERYL- LIUM, DIS- SOLVED (μg/L as Be) (01010)	BORON, DIS- SOLVED (μg/L as B) (01020)	CADMIUM DIS- SOLVED (μg/L as Cd) (01025)	CHRO- MIUM, DIS- SOLVED (μg/L as Cr) (01030)
MISCELLANEOUS SURFACE-WATER DATA SITES—Continued									
SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	24	270‡	--	180	<.5	--	2.0	<5
CHICO ARROYO	05-18-90	15	--	--	88	<2i	--	<3.0	<20
RIO PUERCO	05-18-90	7.8	270‡	--	83	<.5	--	<1.0	<5
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	22	390‡	3	--	--	300	<1.0	--
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	380‡	2	--	--	--	--	--
BRIDGE 83	03-31-89	22	400‡	5	--	--	300	<1.0	--
	08-03-90	--	380‡	3	--	--	--	--	--
	10-16-90	--	410‡	2	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	460‡	7	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	15	470‡	--	--	--	--	--	--
HOLBROOK	05-15-90	9.7	290‡	--	140	<.5	--	<1.0	<5
QUERINO ROAD	04-04-89	15	140	5	--	--	130	<1.0	--
	03-08-90	10	450‡	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	10	440‡	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	CHROMIUM, HEXA- VALENT, DIS. ($\mu\text{g/L}$ as Cr) (01032)	COBALT, DIS- SOLVED ($\mu\text{g/L}$ as Co) (01035)	COPPER, DIS- SOLVED ($\mu\text{g/L}$ as Cu) (01040)	IRON, DIS- SOLVED ($\mu\text{g/L}$ as Fe) (01046)	LEAD, DIS- SOLVED ($\mu\text{g/L}$ as Pb) (01049)	MANGA- NESE, DIS- SOLVED ($\mu\text{g/L}$ as Mn) (01056)	MERCURY DIS- SOLVED ($\mu\text{g/L}$ as Hg) (71890)	MOLYB- DENUM, DIS- SOLVED ($\mu\text{g/L}$ as Mo) (01060)
MISCELLANEOUS SURFACE-WATER DATA SITES—Continued									
SOUTH FORK PUERCO RIVER AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	05-17-90	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	--	<3	<10	9	20†	<1	--	640
CHICO ARROYO	05-18-90	--	<9	<30	18	<30i	<3	--	660
RIO PUERCO	05-18-90	--	<3	<10	16	<10i	9	--	<10
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	<1	1	11	--	<5	--	.2	--
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	<1	2	10	--	<5	--	.1	--
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	--	<3	<10	10	<10i	5	--	<10
QUERINO ROAD	04-04-89	<1	1	3	--	<5	--	<.1	--
	03-08-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	NICKEL, DIS- SOLVED ($\mu\text{g/L}$ as Ni) (01065)	SILVER, DIS- SOLVED ($\mu\text{g/L}$ as Ag) (01075)	STRON- TIUM, DIS- SOLVED ($\mu\text{g/L}$ as Sr) (01080)	VANA- DIUM, DIS- SOLVED ($\mu\text{g/L}$ as V) (01085)	ZINC, DIS- SOLVED ($\mu\text{g/L}$ as Zn) (01090)	ALUM- INUM, DIS- SOLVED ($\mu\text{g/L}$ as Al) (01106)	LITHIUM DIS- SOLVED ($\mu\text{g/L}$ as Li) (01130)	SELE- NIUM, DIS- SOLVED ($\mu\text{g/L}$ as Se) (01145)
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MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	<10	3.0	340	<6	<3	--	61	--
CHICO ARROYO	05-18-90	<30	<1.0	1100	<18	11	--	74	--
RIO PUERCO	05-18-90	<10	<1.0	810	<6	50	--	29	--
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	<1	--	290	--	19	20	--	<1
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	<1
BRIDGE 83	03-31-89	5	--	320	--	10	40	--	<1
	08-03-90	--	--	--	--	--	--	--	<1
	10-16-90	--	--	--	--	--	--	--	<1
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	<1
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	<10	<1.0	790	<6	6	--	27	--
QUERINO ROAD	04-04-89	2	--	730	--	9	40	--	1
	03-08-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	S-34/ S-32 STABLE ISOTOPE RATIO PER MIL (82086)	H-2/ H-1 STABLE ISOTOPE RATIO PER MIL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TRITIUM TOTAL (pCi/L) (07000)	GROSS ALPHA, DIS- SOLVED (μg/L as U-nat) (80030)	ALPHA, COUNT, 2 SIGMA WAT DIS (μg/L as U-nat) (75986)	GROSS ALPHA, SUSP. TOTAL (μg/L as U-nat) (80040)	GROSS BETA, DIS- SOLVED (pCi/L as Cs-137) (03515)

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	4.90	-88.0	-11.30	<2.5	400†	65	--	190
CHICO ARROYO	05-18-90	-2.10	--	--	--	420†	67	--	210
RIO PUERCO	05-18-90	-10.10	--	--	--	8.5	2.3	--	6.8
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	-2.00	--	--	--	1.3	--	.7*	18
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	-102.0	-14.00	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	-2.00	-102.5	-13.20	--	1.3	--	<.4*	20
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	-.60	-51.5	-4.80	7.0	4.5	1.3	--	8.0
QUERINO ROAD	04-04-89	3.80	-65.0	-6.20	--	11†	2.3	7.3*	11
	03-08-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	BETA, 2 SIGMA WATER, DISS, (pCi/L as Cs-137) (75989)	GROSS BETA, SUSP. TOTAL (pCi/L as Cs-137) (03516)	GROSS BETA, DISS. (pCi/L as Sr-90/ Y-90) (80050)	BETA, 2 SIGMA WATER, DISS, (pCi/L as Sr-90/ Y-90) (75988)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr-90/ Y-90) (80060)	BETA, 2 SIGMA SED, SUSP. TOT DRY (pCi/G as Sr-90/ Y-90) (76005)	Cs-137 SOIL, TOTAL, (pCi/G) (76007)	Cs-137 2 SIGMA SOIL, TOTAL, DRY WGT (pCi/G) (04103)
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MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	--	--	--	--	--	--	.21	.020
SAN MATEO	05-01-90	21	--	140	24	--	--	--	--
CHICO ARROYO	05-18-90	27	--	160	20	--	--	--	--
RIO PUERCO	05-18-90	1.6	--	5.1	1.2	--	--	--	--
	08-18-90	--	--	--	--	--	--	.01	.020
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	<.4*	12	--	<.4*	--	--	--
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	<.4*	12	--	<.4*	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	2.6	--	6.1	2.0	--	--	--	--
QUERINO ROAD	04-04-89	2.2	5.7*	7.5	1.6	5.0*	1.7	--	--
	03-08-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	RA-226	URANIUM	U-234	U-234	U-234	URANIUM	U-235	U-235
		SED, SUSP, TOTAL, DRY WGT (pCi/G) (75944)	-234 WATER DISSOLV (pCi/L) (22610)	2 SIGMA WATER, DISS, (pCi/L) (75992)	SED, SUSP, TOTAL, DRY WGT (pCi/G) (75942)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75941)	-235 WATER, DISS (pCi/L) (22620)	2 SIGMA WATER, DISS, (pCi/L) (75994)	235 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75975)

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	1.7	.40	--	--	<.1
PIPELINE ARROYO U-59	08-14-90	1.8	--	--	1.6	.20	--	--	ND
	08-14-90	1.2	--	--	1.7	.20	--	--	<.1
	08-14-90	1.8	--	--	1.8	.20	--	--	<.1
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	1.9	--	--	1.0	.10	--	--	<.1
SAN MATEO	05-01-90	--	150	22	--	--	1.1	.80	--
CHICO ARROYO	05-18-90	--	170	31	2.9	.70	5.8	1.3	<.1
RIO PUERCO	05-18-90	--	2.8	.3	--	--	<.1	ND	--
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	--	--	--	--	--	--	--
	03-08-90	--	.70	--	--	--	.4	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	3.7	.7	--	--	.3	.20	--
HOLBROOK	05-15-90	--	1.8	.2	--	--	<.1	ND	--
QUERINO ROAD	04-04-89	--	4.3	.7	--	--	.3	.20	--
	03-08-90	--	5.3	.8	--	--	.6	.20	--
PUERCO RIVER AT SANDERS	03-09-90	--	6.5	1.1	--	--	.3	.20	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NAME	DATE	U-235	URANIUM -238 WATER DISSOLV (pCi/L) (22603)	U-238	U-238 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)	U-238 SED, SUSP, TOTAL, DRY WGT (pCi/G) (04113)	URANIUM NATURAL DIS- SOLVED (µg/L as U) (22703)	TH-230	TH-230
		2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75947)		2 SIGMA WATER, DISS, (pCi/L) (75991)				2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75939)	2 SIGMA SED, SUSP, TOTAL, DRY WGT (pCi/G) (75952)

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	ND	--	--	1.9	--	--	1.7	.70
PIPELINE ARROYO U-59	08-14-90	.02	--	--	1.7	.20	--	2.1	.26
	08-14-90	ND	--	--	1.7	.20	--	2.0	.25
	08-14-90	ND	--	--	1.8	.20	--	2.2	.25
SOUTH FORK PUERCO U-59	10-19-90	--	--	--	--	--	--	--	--
	08-15-91	ND	--	--	1.1	.14	--	1.2	.19
SAN MATEO	05-01-90	--	140	21	--	--	390†	--	--
CHICO ARROYO	05-18-90	ND	160	30	2.3	.60	--	.9	.54
RIO PUERCO	05-18-90	--	1.7	.20	--	--	--	--	--
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	--	--	--	--	--	--	--
	03-08-90	--	.30	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	2.3	.50	--	--	--	--	--
HOLBROOK	05-15-90	--	.80	.10	--	--	<1.0	--	--
QUERINO ROAD	04-04-89	--	2.4	.50	--	--	--	--	--
	03-08-90	--	4.7	.80	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	4.2	.80	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	TH-232 SED, SUSP, TOTAL, DRY WGT (pCi/G) (75953)	Th-232 2 SIGMA, SED, SUSP. TOTAL, DRY WGT (pCi/G) (75936)	ALUM- INUM BOT MAT <63 μ DS LAB PERCENT (34792)	ARSENIC BOT MAT <63 μ DS LAB (μ g/G) (34802)	BARIUM BOT MAT <63 μ DS LAB (μ g/G) (34807)	BERYL- LIUM BOT MAT <63 μ DS LAB (μ g/G) (34812)	BISMUTH BOT MAT <63 μ DS LAB (μ g/G) (34817)	CADMIUM BOT MAT <63 μ DS LAB (μ g/G) (34827)
MISCELLANEOUS SURFACE-WATER DATA SITES—Continued									
SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	1.7	.70	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	1.5	.20	--	--	--	--	--	--
	08-14-90	1.6	.21	--	--	--	--	--	--
	08-14-90	1.8	.22	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	--	--	7.2	<10	640	2	<10	<2
	08-15-91	1.0	.17	--	--	--	--	--	--
SAN MATEO	05-01-90	--	--	--	--	--	--	--	--
CHICO ARROYO	05-18-90	1.1	.56	--	--	--	--	--	--
RIO PUERCO	05-18-90	--	--	--	--	--	--	--	--
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	--	--	--	--	--	--	--	--
QUERINO ROAD	04-04-89	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	CALCIUM	CERIUM	CHRO-	COBALT	COPPER	EURO-	GALLIUM	GOLD
		BOT MAT	BOT MAT	MIUM	BOT MAT	BOT MAT	PIUM	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		PERCENT	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)	(μ g/G)
		(34832)	(34837)	(34842)	(34847)	(34852)	(34857)	(34862)	(34872)

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	1.8	79	43	11	20	<2	16	<8
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	--	--	--	--	--	--	--	--
CHICO ARROYO	05-18-90	--	--	--	--	--	--	--	--
RIO PUERCO	05-18-90	--	--	--	--	--	--	--	--
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	--	--	--	--	--	--	--	--
QUERINO ROAD	04-04-89	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	HOLMIUM	IRON	LANTHA- NUM	LEAD	LITHIUM	MAGNE- SIUM	MANGA- NESE	MOLYB- DENUM	NEODYM- IUM
		BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS	<63 μ DS
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G) (34877)	PERCENT (34882)	(μ g/G) (34887)	(μ g/G) (34892)	(μ g/G) (34897)	PERCENT (34902)	(μ g/G) (34907)	(μ g/G) (34917)	(μ g/G) (34922)

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	<4	2.4	42	20	29	.71	360	<2	32
	08-15-91	--	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	--	--	--	--	--	--	--	--	--
CHICO ARROYO	05-18-90	--	--	--	--	--	--	--	--	--
RIO PUERCO	05-18-90	--	--	--	--	--	--	--	--	--
	08-18-90	--	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	--	--	--	--	--	--	--	--	--
QUERINO ROAD	04-04-89	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	NICKEL	NIOBIUM	PHOS-	POTAS-	SCAN-	SILVER	SODIUM	STRON-	TANTA-
		BOT MAT	BOT MAT	PHORUS	SILIUM	DIUM	BOT MAT	BOT MAT	TIUM	LUM
		<63 μ DS	<63 μ DS	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT	BOT MAT
		LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB	LAB
		(μ g/G)	(μ g/G)	PERCENT	PERCENT	(μ g/G)	(μ g/G)	PERCENT	(μ g/G)	(μ g/G)
		(34927)	(34932)	(34937)	(34942)	(34947)	(34957)	(34962)	(34967)	(34977)

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	14	12	.05	2	10	<4	.7	170	<40
	08-15-91	--	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	--	--	--	--	--	--	--	--	--
CHICO ARROYO	05-18-90	--	--	--	--	--	--	--	--	--
RIO PUERCO	05-18-90	--	--	--	--	--	--	--	--	--
	08-18-90	--	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	--	--	--	--	--	--	--	--	--
QUERINO ROAD	04-04-89	--	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--	--

SURFACE-WATER DATA—Continued

CHEMICAL ANALYSES—Continued

STATION NUMBER	DATE	THORIUM	TIN	TITA- NIUM	URANIUM	VANA- DIUM	YTTRIUM	YTTER- BIUM	ZINC
		BOT MAT <63 μ DS LAB (μ g/G) (34982)	BOT MAT <63 μ DS LAB (μ g/G) (34987)	BOT MAT <63 μ DS LAB PERCENT (34992)	BOT MAT <63 μ DS LAB (μ g/G) (35002)	BOT MAT <63 μ DS LAB (μ g/G) (35007)	BOT MAT <63 μ DS LAB (μ g/G) (35012)	BOT MAT <63 μ DS LAB (μ g/G) (35017)	BOT MAT <63 μ DS LAB (μ g/G) (35022)

MISCELLANEOUS SURFACE-WATER DATA SITES—Continued

SOUTH FORK PUERCO AT ROUTE 566 BRIDGE	05-17-90	--	--	--	--	--	--	--	--
PIPELINE ARROYO U-59	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
	08-14-90	--	--	--	--	--	--	--	--
SOUTH FORK PUERCO U-59	10-19-90	11	<5	.42	<100	75	23	3	67
	08-15-91	--	--	--	--	--	--	--	--
SAN MATEO	05-01-90	--	--	--	--	--	--	--	--
CHICO ARROYO	05-18-90	--	--	--	--	--	--	--	--
RIO PUERCO	05-18-90	--	--	--	--	--	--	--	--
	08-18-90	--	--	--	--	--	--	--	--
GALLUP SEWAGE TREATMENT PLANT	03-27-89	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--
	03-09-90	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
BRIDGE 83	03-31-89	--	--	--	--	--	--	--	--
	08-03-90	--	--	--	--	--	--	--	--
	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON WELL CLUSTER	10-16-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT LUPTON, ROUTE 66 BRIDGE	03-08-90	--	--	--	--	--	--	--	--
HOLBROOK	05-15-90	--	--	--	--	--	--	--	--
QUERINO ROAD	04-04-89	--	--	--	--	--	--	--	--
	03-08-90	--	--	--	--	--	--	--	--
PUERCO RIVER AT SANDERS	03-09-90	--	--	--	--	--	--	--	--

Surface-Water Data—Continued

Radionuclides on suspended sediment

[from continual-record streamflow-gaging stations; analyzed by New Mexico Scientific Laboratory: 9999, composite sample, no time; dashes, no data]

Station Number	Record ID	Date	Time	Sediment Concentration (mg/L)	U238 (pCi/G)	U234 (pCi/G)	Th230 (pCi/G)	Th232 (pCi/G)	Ra226 (pCi/G)	Ra228 (pCi/G)	Pb210 (pCi/G)
Puerto River Near Church Rock, New Mexico											
09395350	RC-89-0332	09-05-89	2110	66,800	1.48±0.14	1.39±0.14	1.59±0.16	1.40±0.50	1.32±0.12	1.60±0.14	2.11±0.50
	RC-88-0778	-	9999	-	2.10±0.10	2.00±0.10	1.90±0.10	1.80±0.10	1.89±0.11	3.00±0.30	1.60±0.50
Puerto River, Manuelito, New Mexico											
09395630	RC-89-0331	09-06-89	0110	77,200	1.31±0.14	1.28±0.14	1.39±0.15	1.10±0.30	1.40±0.12	1.26±0.12	1.09±0.23
	RC-89-0330	09-06-89	0120	142,000	1.42±0.15	1.58±0.16	1.42±0.16	1.10±0.30	1.27±0.14	1.41±0.14	1.80±0.40
	RC-89-0329	09-06-89	0130	116,000	1.53±0.15	1.54±0.15	1.72±0.18	1.90±0.20	1.43±0.12	1.54±0.15	1.80±0.40
Zuni River above Black Rock Reservoir, New Mexico											
09386950	RC-89-0297	07-26-89	0320	-	1.86±0.14	1.66±0.14	1.47±0.12	1.41±0.12	1.70±0.15	1.40±0.25	2.60±0.40
	RC-89-0296	07-26-89	0240	14,100	1.69±0.14	1.49±0.14	1.69±0.14	1.38±0.12	1.61±0.15	1.80±0.20	2.90±0.20
	RC-89-0295	07-26-89	0210	16,500	1.59±0.12	1.42±0.12	1.44±0.18	1.40±0.15	1.71±0.15	1.90±0.30	2.60±0.30
	RC-89-0298	07-26-89	0500	15,600	3.63±0.24	3.48±0.22	3.40±0.30	1.56±0.16	3.70±0.30	1.70±0.30	4.50±0.50
	RC-89-0299	07-26-89	1200	12,600	2.23±0.16	2.11±0.16	1.86±0.16	1.39±0.12	1.83±0.15	1.60±0.25	2.70±0.40
Black Creek Near Houck, Arizona											
09395990	RC-89-0324	09-05-89	2320	47,100	1.40±0.13	1.34±0.13	1.44±0.13	1.40±0.20	1.42±0.12	1.50±0.12	2.70±0.30
	RC-89-0323	09-05-89	2200	71,800	1.38±0.12	1.33±0.12	1.67±0.15	1.30±0.40	1.30±0.11	1.54±0.13	2.40±0.30
	RC-89-0322	09-05-89	2050	74,500	1.45±0.14	1.48±0.14	1.71±0.16	1.60±0.20	1.73±0.15	1.64±0.14	2.00±0.30
	RC-89-0320	09-05-89	2020	73,300	1.30±0.12	1.06±0.11	1.39±0.13	1.30±0.20	1.31±0.11	1.52±0.12	1.70±0.25

Surface-Water Data—Continued—Continued

Radionuclides on suspended sediment —Continued

[from continual-record streamflow-gaging stations; analyzed by New Mexico Scientific Laboratory; 9999, composite sample, no time; dashes, no data]—Continued

Station Number	Record ID	Date	Time	Sediment Concentration (mg/L)	U238 (pCi/G)	U234 (pCi/G)	Th230 (pCi/G)	Th232 (pCi/G)	Ra226 (pCi/G)	Ra228 (pCi/G)	Pb210 (pCi/G)
09396100	RC-89-0318	09-06-89	1510	16,500	1.47±0.12	1.40±0.12	1.50±0.14	1.50±0.30	1.30±0.12	1.45±0.12	2.40±0.30
	RC-88-0776	—	9999	—	1.35±0.10	1.34±0.09	1.32±0.10	1.30±0.10	0.95±0.06	2.20±0.30	3.00±0.60
	RC-89-0321	09-06-89	1515	180,000	1.42±0.13	1.36±0.13	1.50±0.14	1.60±0.30	1.37±0.12	1.38±0.12	1.40±0.30
	RC-89-0319	09-06-89	1440	147,000	1.32±0.13	1.21±0.13	1.54±0.14	1.10±0.20	1.46±0.12	1.43±0.12	1.90±0.30
09394500					Puerco River Near Chambers, Arizona						
	RC-88-0777	—	9999	—	1.15±0.09	1.06±0.08	1.40±0.10	1.50±0.10	1.27±0.08	2.60±0.30	1.30±0.50
	RC-89-0312	07-23-89	1230	36,200	0.96±0.12	0.73±0.10	1.22±0.13	0.89±0.16	1.04±0.09	1.32±0.12	2.10±0.30
	RC-89-0316	08-18-89	1200	31,200	0.91±0.12	0.91±0.12	1.14±0.12	1.13±0.18	0.96±0.09	1.13±0.11	1.30±0.30
	RC-89-0315	08-18-89	1740	46,500	1.01±0.10	0.93±0.10	1.22±0.12	1.30±0.20	0.99±0.09	1.16±0.10	1.81±0.40
	RC-89-0314	07-23-89	1510	22,400	1.02±0.11	0.87±0.10	1.46±0.14	1.48±0.21	2.40±0.20	1.47±0.13	1.50±0.30
	RC-89-0313	07-23-89	1010	41,100	0.92±0.11	0.90±0.11	1.14±0.12	1.18±0.24	1.01±0.09	1.15±0.11	1.60±0.30
	RC-89-0317	07-23-89	1200	31,200	0.97±0.12	1.18±0.13	1.07±0.12	1.20±0.21	1.08±0.09	1.17±0.11	1.48±0.24
09402000					Little Colorado at Woodruff, Arizona						
09402000					Little Colorado River at Cameron, Arizona						
	RC-88-0782	—	9999	—	1.28±0.09	1.32±0.09	1.30±0.10	1.40±0.10	1.14±0.07	2.40±0.30	2.70±0.70

PRECIPITATION DATA

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR MAY 1989 TO SEPTEMBER 1989
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	8.64	.00
2	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
3	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
4	---	---	---	---	---	---	---	1.27	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	1.52	.00	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.00	.00	.00	2.03	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
12	---	---	---	---	---	---	---	.51	.00	.00	.00	.00
13	---	---	---	---	---	---	---	.25	.00	.00	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.00	.25	.00
15	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	---	6.35	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.00	.00	10.16	.00
19	---	---	---	---	---	---	---	.00	.00	.00	2.54	.76
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.00	1.27	.00
22	---	---	---	---	---	---	---	.00	.00	1.52	.00	.00
23	---	---	---	---	---	---	---	.00	.00	3.30	.00	.00
24	---	---	---	---	---	---	---	.00	.00	6.60	.00	.00
25	---	---	---	---	---	---	---	.00	.00	14.99	.00	.00
26	---	---	---	---	---	---	---	.00	.00	.25	.00	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
29	---	---	---	---	---	---	---	.00	.00	.51	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---

PRECIPITATION DATA—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.25	16.00	.00	.00	.00	1.02
2	.00	.00	.00	.00	1.52	.00	.00	12.45	.00	11.94	.00	.00
3	2.03	.00	.00	.00	.76	.76	.00	4.32	.00	.00	.00	.00
4	13.72	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.89
5	1.02	.00	.00	.00	1.52	.00	7.37	.00	.00	2.29	6.60	5.33
6	.00	.00	.00	.00	.00	1.78	.00	.00	.00	.00	.76	.25
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.35	.00	.00
8	.00	.00	.00	.00	2.54	.00	.51	.00	.00	1.02	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.25	.76	.00	.00
10	.00	.00	.00	.00	.00	4.06	.00	.00	4.57	.00	.00	.00
11	.00	.00	.00	.00	.00	4.32	.00	.00	.00	2.79	1.27	.00
12	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.25	.00
13	.00	.00	.00	.25	.00	.51	.00	.00	.00	9.14	6.60	.00
14	.00	.00	.00	.00	.00	.51	.00	.00	.00	.51	6.10	.00
15	.00	.00	.00	.00	.00	1.02	.00	.00	.00	.00	4.06	.00
16	.00	.00	1.52	.00	.25	.00	.00	.00	.00	.00	1.27	.25
17	.00	.00	.00	.00	.00	.00	4.83	.00	.00	3.05	2.29	.00
18	.00	.00	.00	.00	.00	.00	1.02	.00	.00	.25	.00	7.62
19	.00	.00	.00	.25	.00	.00	.25	.00	.00	.00	.00	.25
20	6.35	.00	.00	---	1.02	.00	.00	.00	.00	.00	6.60	3.81
21	.51	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.25
22	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	6.35
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.78	.00	.25
24	.00	.00	.00	.00	.00	.00	2.54	.00	.00	.76	.00	.00
25	.00	.00	.00	.00	.00	.00	1.02	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.76
29	.00	.00	1.27	.00	---	.25	.00	.76	.00	.00	.00	.00
30	.00	.00	.25	.00	---	.00	.25	.00	2.54	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---

PRECIPITATION DATA—Continued

09395350 PUERCO RIVER NEAR CHURCH ROCK, NM—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.13	.00	.00	.00	.00	16.00	.00	.00	.00	.00	2.29	.51
2	.00	6.10	.00	.00	.00	4.57	.00	.00	1.52	.00	2.29	.00
3	.00	3.81	.00	1.52	.00	.00	.00	.00	.00	.00	.25	.00
4	.00	2.54	.00	5.08	.00	.00	.00	.00	.00	.00	.25	1.02
5	.00	.25	.00	.00	.00	.00	.00	.00	.00	.00	4.32	4.06
6	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.51	1.78
7	3.56	.51	.00	5.08	.00	.00	.00	.00	.00	.00	.00	.00
8	.25	3.56	.00	.00	.25	.00	.00	.00	.00	8.89	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00
10	.00	.25	.00	.00	.00	.00	.00	.00	2.03	.00	3.30	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	11.68	.25	2.79	2.29
12	.00	.00	7.62	.00	.00	.00	.00	.00	2.79	.51	.51	.00
13	.00	.00	5.59	.00	.00	.00	.25	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.05	.00
16	.00	.00	.51	1.78	1.52	3.05	.00	.00	.00	1.27	.25	.00
17	.00	.00	.00	2.03	1.02	.00	.00	.00	.00	.51	1.78	.00
18	.00	.00	.76	.00	.00	.00	.00	.00	.00	2.79	2.79	.00
19	17.27	.00	1.02	.00	.00	.00	.00	.00	.00	.25	.00	.00
20	.51	2.79	.00	.00	.00	.00	.00	.00	.00	1.52	.00	.00
21	.00	.00	.00	1.02	.00	.76	.00	.00	.00	.25	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.29	.00	.00
23	.00	.00	.00	1.52	.00	.00	.00	.00	.00	1.78	.00	.25
24	.00	.00	.00	.51	.00	.00	.00	.00	.00	4.57	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	.76	.00	.00	.00	4.06	5.33	.00	.00	.00	.51	.00
27	.00	1.02	.25	.00	.00	.00	.00	.00	.00	.00	.25	.00
28	.00	.00	3.81	.00	2.29	5.08	.00	.00	.00	7.11	.00	.00
29	.00	.00	2.54	.00	---	.51	.00	.00	.00	1.52	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.25	.00	1.02
31	.00	---	.76	.00	---	.00	---	1.78	---	3.81	.00	---

PRECIPITATION DATA—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR MAY 1989 TO SEPTEMBER 1989
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.25	.00
2	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
3	---	---	---	---	---	---	---	.00	.00	.00	.00	.25
4	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.00	.00	3.56	.00	.00
12	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
13	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.00	2.54	.00
15	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	.00	.76
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.25
18	---	---	---	---	---	---	---	.00	.00	.00	13.97	.00
19	---	---	---	---	---	---	---	.00	.00	.00	2.03	2.54
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	---	.00	.00	.51	.00	.00
23	---	---	---	---	---	---	---	.00	.00	.25	.00	.00
24	---	---	---	---	---	---	---	.00	.00	.25	.00	.00
25	---	---	---	---	---	---	---	.00	.00	6.10	.00	.00
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.00	11.43	.00	.00
28	---	---	---	---	---	---	---	.00	.00	.25	.00	.00
29	---	---	---	---	---	---	---	.00	1.02	.00	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	2.03	.00	---

PRECIPITATION DATA—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.51	.00	.51	.76	.00	.00	.00	.00
2	.00	.00	.00	.00	1.02	.00	.00	4.06	.00	.00	.00	.00
3	.00	.00	.00	.25	.00	.25	.00	.25	.00	.00	.00	.00
4	.51	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.25	.00	.25	1.02	.00	.00	.76	.00	.76
6	.00	.00	1.27	.00	.00	.25	.00	.00	.00	.00	.00	.25
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.00	.00
8	.00	.00	.00	.00	1.27	.00	.25	.00	.00	.51	.00	.25
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00	.00
10	.00	.00	.00	.00	.00	1.52	.00	.00	.76	.00	.51	.00
11	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.76	.00	.00	.00	.25	.51	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.27	1.78	.00
14	.00	.00	.00	.00	.00	.51	.00	.00	.00	.25	2.03	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.78	.00
16	.00	.00	.25	.00	.51	.00	.00	.00	.00	.00	2.54	2.79
17	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	1.78
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00
20	.51	.00	.00	1.02	.51	.00	.00	.00	.00	.00	1.52	2.79
21	.25	.00	.25	.00	.00	.00	.00	.00	.00	.00	.00	.51
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.81
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00	1.52
24	.00	.00	.00	.00	.00	.00	1.78	.00	.00	.25	.00	.00
25	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76
28	.00	.00	.00	.00	.76	.00	.00	.00	.00	.00	.00	.51
29	.00	.00	.51	.00	---	1.02	.00	.51	.00	.00	.00	.25
30	.00	.51	.00	.00	---	.51	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.00	---

PRECIPITATION DATA—Continued

09395630 PUERCO RIVER NEAR MANUELITO, NM—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	.25	.00	.00	.00	4.57	.00	.00	.00	.00	1.52	.00
2	.00	2.79	.00	.00	.00	.51	.00	.00	.00	.00	.76	.00
3	.00	4.32	.00	1.02	.00	.00	.00	.00	.00	.00	2.03	.00
4	.00	.00	.00	3.30	.00	.00	.00	.00	.00	.00	.00	8.64
5	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	4.57	1.27
6	.00	.00	.00	.76	.00	.00	.00	.00	.00	.00	1.27	1.52
7	1.52	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	1.02	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	14.73	.00	.76	.00
12	.00	.00	2.03	.00	.00	.00	.00	.00	.25	.00	.00	.00
13	.00	.00	1.52	.00	.00	.00	.00	.00	.76	.00	.00	.00
14	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	3.30	.00
16	.00	.00	.51	.51	1.27	1.52	.00	.00	.00	1.02	.00	.00
17	.00	.00	.00	.00	1.78	.00	.00	.00	.00	6.60	.00	.00
18	.00	.00	.51	.00	.00	.00	.00	.00	.00	.00	1.52	.00
19	5.08	.00	.76	.00	.00	.51	.00	.00	.00	.00	.00	.00
20	.25	1.02	.00	.00	.00	.25	.00	.00	.00	2.54	.00	.00
21	.00	.00	.00	.76	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.25	.00	.51	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.27	3.05	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.27	2.29	.00
26	.00	1.02	.00	.00	.00	.51	4.06	.00	.00	2.79	.51	.00
27	.00	.25	.51	.00	.00	1.02	.00	.00	.00	.25	.00	.00
28	.00	.00	3.81	.00	2.03	.25	.00	.00	.00	.00	.00	.00
29	.00	.00	1.02	.25	---	.25	.00	.00	.00	.51	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.25	.00	---	.00	---	.76	---	.51	.25	---

PRECIPITATION DATA—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ

RAINFALL ACCUMULATED (MILLIMETERS), APRIL 1989 TO SEPTEMBER 1989
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	.00	.00	1.52	.00
2	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
3	---	---	---	---	---	---	---	.00	.00	.00	.00	1.78
4	---	---	---	---	---	---	---	.00	.00	.00	.00	.25
5	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	3.56	.00
9	---	---	---	---	---	---	---	.51	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
12	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
13	---	---	---	---	---	---	---	.00	.25	.00	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
15	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	---	1.52	.00	.00	.00	.00
17	---	---	---	---	---	---	---	.00	.00	.00	4.06	.00
18	---	---	---	---	---	---	.00	.00	.00	.00	18.03	.00
19	---	---	---	---	---	---	.00	.00	.00	.00	.76	.00
20	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
23	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
24	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
26	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
28	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
29	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
30	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---

PRECIPITATION DATA—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.76	.00	.00	1.27	.00	.00	.00	.00
2	.00	.00	.00	.00	4.06	.00	.00	3.81	.00	.00	.00	.00
3	4.57	.00	.00	.25	.00	1.52	.00	2.54	.00	.00	.00	2.79
4	11.43	.00	.00	.51	.00	.00	.00	.00	.00	.00	.00	1.52
5	.00	.00	.00	.00	.00	.00	3.81	.00	.00	.00	.76	23.11
6	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	12.45
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.59	.00	.00
8	.00	.00	.00	.00	2.54	.00	1.27	.00	.00	5.84	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00
10	.00	.00	.00	.00	.00	3.81	.00	.00	3.05	1.02	1.02	.00
11	.00	.00	.00	.00	.00	.25	.00	.00	.00	.25	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00
13	.00	.00	.00	.00	.00	1.02	.00	.00	.00	.76	7.37	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	11.94	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.86	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	2.03
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	10.67	.51
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.00	5.08
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76
20	6.10	.00	.00	5.08	1.78	.00	.00	.00	.00	.00	.00	9.14
21	.76	.00	.00	3.05	.25	.00	.00	.00	.00	.00	.00	.51
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.64
23	.00	.00	.00	.25	.25	.00	.00	.00	.00	.00	.00	2.29
24	.00	.00	.00	.00	.00	.00	.76	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	1.02	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.51	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.02
28	.00	.00	.00	.00	3.56	.00	.00	.00	.00	.00	.00	1.27
29	.00	.00	3.05	.00	---	.25	.00	2.79	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.00	---	1.52	.00	---

PRECIPITATION DATA—Continued

09395990 BLACK CREEK NEAR HOUCK, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.56	.00	.00	---	---	15.24	.00	.00	1.52	.00	7.37	.00
2	.25	10.92	.00	---	---	9.65	.00	.00	.00	.00	.25	.00
3	.00	3.56	.00	---	---	.00	.00	.00	.00	.00	5.59	.00
4	.00	.25	.00	---	---	.00	.00	.00	.00	1.27	1.02	2.79
5	.00	.00	.00	---	---	.25	.00	.00	.00	.00	.76	9.40
6	.00	.00	.00	---	---	.00	.00	.00	.00	1.27	3.56	1.02
7	.00	8.13	.00	---	---	.00	.00	.00	.00	4.06	.00	1.27
8	.00	.00	.00	---	---	.00	.00	.00	.00	2.79	.00	.00
9	.00	.00	.00	---	---	.00	.00	.00	.00	.25	.51	.00
10	.00	.00	.00	---	---	.00	.00	.00	3.81	.00	.00	1.02
11	.00	.00	.00	---	---	.00	.00	.00	11.94	.00	.00	.00
12	.00	.00	.00	---	---	.00	.00	.00	4.32	13.97	.00	1.52
13	.00	.00	.00	---	---	.00	.00	.00	2.03	.00	.00	.00
14	.00	.00	.00	---	---	1.52	.00	.00	4.57	.25	2.29	.00
15	.00	.00	.00	---	---	.51	.00	.00	.76	.76	.00	.00
16	.00	.00	.00	---	---	2.79	.00	.00	.00	.25	.51	.00
17	.00	.00	.00	---	---	.25	.00	.00	.00	.00	.76	.00
18	.00	.00	.00	---	---	.00	.00	.00	.00	.00	1.02	.00
19	12.95	.00	---	---	---	.00	.00	.00	.00	.51	.00	.00
20	.51	1.52	---	---	---	.25	.00	.00	.00	.00	.00	.00
21	.00	.00	---	---	---	2.54	.00	.00	.00	1.52	.00	.00
22	.00	.00	---	---	---	3.30	.00	.00	.00	.00	.00	.00
23	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	1.27
24	.00	.00	---	---	---	.00	.00	.00	.00	6.10	3.30	2.29
25	.00	.00	---	---	---	.00	.00	.00	.00	1.52	.00	.00
26	.00	3.05	---	---	---	.76	5.08	.00	.00	.51	.00	.00
27	.00	.51	---	---	.00	.25	.00	.00	.00	.00	.00	.00
28	.00	.00	---	---	5.08	7.87	.00	.00	.00	.76	.00	.00
29	.00	.00	---	---	---	.00	.00	.00	.00	11.94	.00	.00
30	.00	.00	---	---	---	.00	.00	.00	.00	.00	.00	.76
31	.00	---	---	---	---	.00	---	7.11	---	1.78	.51	---

PRECIPITATION DATA—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ

RAINFALL ACCUMULATED (MILLIMETERS), APRIL 1989 TO SEPTEMBER 1989
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
2	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
3	---	---	---	---	---	---	---	.00	.00	.00	.25	1.78
4	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.25	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
9	---	---	---	---	---	---	---	.00	.00	18.80	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.00	.00	.25	.00	.00
12	---	---	---	---	---	---	---	.00	2.54	.00	.00	.00
13	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
14	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
15	---	---	---	---	---	---	.00	.00	1.27	.00	.00	.00
16	---	---	---	---	---	---	.00	7.87	.00	.25	.00	.00
17	---	---	---	---	---	---	.00	.00	.00	.00	2.03	.00
18	---	---	---	---	---	---	.00	.00	.00	.00	32.77	.00
19	---	---	---	---	---	---	.00	.00	.00	.00	2.03	.00
20	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
22	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
23	---	---	---	---	---	---	.00	.00	.00	.25	.00	.00
24	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
25	---	---	---	---	---	---	.00	.00	.00	7.11	.00	.00
26	---	---	---	---	---	---	.00	.00	.00	.51	.00	.00
27	---	---	---	---	---	---	.00	.00	.00	3.81	.00	.00
28	---	---	---	---	---	---	.00	.00	1.27	1.02	.00	.00
29	---	---	---	---	---	---	.00	.00	.00	.51	.00	.00
30	---	---	---	---	---	---	.00	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	.00	.00	---

PRECIPITATION DATA—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.25	.25	.00	.00	.00	.00	.00
2	.00	.00	.00	.00	4.83	.00	.00	2.03	.00	.00	.00	.76
3	5.59	.00	.00	.00	.25	.51	.00	1.27	.00	.00	.00	.00
4	9.65	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.51	.00	.00	.00	.00	.25	3.05	.00	.00	.00	.00	.00
6	.25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.76
7	.00	.00	.00	.00	.00	.00	.76	.00	.00	10.16	.00	.00
8	.00	.00	.00	.00	2.79	.00	.51	.00	.00	3.56	.25	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	3.30	.00
10	.00	.00	.00	.00	.00	3.56	.00	.00	1.52	.00	.00	.00
11	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.25	.00	.00	.00	1.52	6.60	.00
14	.00	.00	.00	.00	.00	.51	.00	.00	.00	6.35	4.57	.00
15	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	1.78	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	2.29	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	5.08
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.32
19	.00	.00	.00	.25	.00	.00	.00	.00	.00	.25	.00	.25
20	8.89	.00	.00	.00	1.52	.00	.00	.00	.00	.00	.00	14.22
21	1.27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.38
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.29
24	.00	.00	.00	.00	.00	.00	1.27	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	1.52	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	5.08	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	4.32	.00	---	.25	.00	2.79	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.51
31	.00	---	.00	.00	---	.00	---	.00	---	3.05	.00	---

PRECIPITATION DATA—Continued

09396100 PUERCO RIVER NEAR CHAMBERS, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.29	.00	.00	---	.00	6.10	.00	.00	.00	.00	.51	.00
2	.00	9.40	.00	---	.00	11.68	.00	.00	.00	.00	.00	.00
3	.00	3.56	.00	---	.00	.00	.00	.00	.00	.00	.25	.00
4	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	13.72
6	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	1.27
7	.00	4.06	.00	---	.00	.00	.00	.00	.00	.76	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.79	.00	.00
9	.00	.00	.00	.76	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	2.54	.00	.00	.00	.00	.76	.00	.00	.00
11	.00	.00	.00	.25	.00	.00	.00	.00	3.30	.00	.00	.00
12	.00	.00	7.37	.00	.00	.00	.00	.00	1.52	.25	.00	.00
13	.00	.00	3.05	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.76	.00	.00	.76	.00	.00	.00
15	.00	.00	3.30	.00	.00	.00	.00	.00	.00	.25	.00	.00
16	.00	.00	16.51	.51	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	13.72	.00	1.78	.00	.00	.76	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.57	.00	.00
21	.00	.00	.00	2.03	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.76	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.78	.00	.00
24	.00	.00	---	.00	.00	.00	.00	.00	.00	6.10	5.33	.00
25	.00	.00	---	.00	.00	.00	.00	.00	.00	.51	.00	.00
26	.00	2.03	---	.00	.00	.25	.25	.00	.00	.00	1.27	.00
27	.00	.00	---	.00	.00	.00	.00	.00	.00	.00	.00	.25
28	.00	.00	---	.00	6.86	1.27	.00	.00	.00	.00	1.78	.00
29	.00	.00	---	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	---	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	---	.00	---	.00	---	.25	---	.00	.00	---

PRECIPITATION DATA—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM

RAINFALL ACCUMULATED (MILLIMETERS), MAY 1989 TO SEPTEMBER 1989
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	2.29	.00
2	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
3	---	---	---	---	---	---	---	.00	.00	.00	1.02	.00
4	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
5	---	---	---	---	---	---	---	.00	.00	.00	.00	2.54
6	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
7	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
8	---	---	---	---	---	---	---	.00	.00	.00	1.52	.00
9	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
10	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
11	---	---	---	---	---	---	---	.00	.00	.76	.00	.00
12	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
13	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
14	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
15	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
16	---	---	---	---	---	---	---	.00	.00	.00	8.64	.00
17	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
18	---	---	---	---	---	---	---	.00	.00	.00	13.72	.00
19	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
20	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
21	---	---	---	---	---	---	---	.00	.00	.00	1.78	.00
22	---	---	---	---	---	---	---	.00	.00	29.72	.00	.00
23	---	---	---	---	---	---	---	.00	.00	2.54	.00	.00
24	---	---	---	---	---	---	---	.00	.00	.76	.00	.00
25	---	---	---	---	---	---	---	.00	.00	18.80	.00	.00
26	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
27	---	---	---	---	---	---	---	.00	.00	.00	.00	3.81
28	---	---	---	---	---	---	---	.00	.00	.25	.00	.00
29	---	---	---	---	---	---	---	.00	1.27	.51	.00	.00
30	---	---	---	---	---	---	---	.00	.00	.00	.00	.00
31	---	---	---	---	---	---	---	.00	---	11.94	.00	---

PRECIPITATION DATA—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	2.03	3.81	.00	.00	1.02	2.54
2	.00	.00	.00	.00	1.78	.00	1.02	10.92	.00	.00	.00	.25
3	6.86	.00	.00	.00	.00	2.03	.00	6.60	.00	.00	.00	.76
4	13.97	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.05
5	3.05	.00	.00	.00	.51	.00	3.81	.00	.00	.00	.00	1.02
6	.00	.00	.00	.00	1.27	2.03	.00	.00	.00	.51	.00	.00
7	.00	.00	.00	.00	.00	.00	.76	.00	.00	.51	.00	.25
8	.00	.00	.00	.00	2.54	.00	1.52	.00	.00	.00	.00	8.89
9	.00	.00	.00	.00	2.03	.00	.00	.00	.00	13.21	.00	.00
10	.00	.00	.00	.00	.00	12.45	.00	.00	6.10	.00	2.29	.00
11	.00	.00	.00	.00	.00	4.83	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.29	15.24	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.06	16.51	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.60	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.03	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	9.65	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.00	6.10
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.00	.00
20	8.13	.00	.00	.25	.00	.00	.00	.00	.00	1.78	3.56	3.30
21	.00	.00	.00	.00	1.52	.00	.00	.00	.00	.00	.00	1.78
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	14.22
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.03
24	.00	.00	.00	.00	.00	.00	1.78	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	4.06	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	2.54	.00	.00	.00	.00	.00	.00	2.54
29	.00	.00	.76	.00	---	.76	.00	3.05	.00	.00	.00	.00
30	.00	1.02	.00	.00	---	4.83	.00	.00	1.78	.25	.00	4.32
31	.00	---	.00	.00	---	.00	---	.00	---	.00	3.30	---

PRECIPITATION DATA—Continued

09386950 ZUNI RIVER ABOVE BLACK ROCK RESERVOIR, NM—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.32	.76	.00	.00	.25	13.21	.00	.00	.00	.00	4.06	.00
2	.00	10.67	.00	.00	.00	5.84	.00	.00	2.29	.00	3.56	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.00
4	.00	.51	.00	.25	.00	.00	.00	.00	.00	.00	.00	2.29
5	.00	.00	.00	.51	.00	2.54	.00	.00	.00	.00	1.27	3.56
6	.00	.00	.00	10.16	.00	.00	.00	.00	.00	.00	8.64	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.51	.00	.00	.00	.00	.00	.00	.00	1.52	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.52	.00
10	.00	.00	.00	2.79	.00	.00	.00	.00	1.52	.00	1.27	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	10.41	.00	.00	.00
12	.00	.00	8.38	.00	.00	.00	.00	.00	1.27	8.38	.00	.00
13	.00	.00	3.30	.00	.00	.00	.00	.00	.51	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	1.02	.00	6.86	.00
15	.00	.00	2.54	.00	.00	.25	.00	.00	.00	1.02	12.70	.00
16	.00	.00	13.72	.00	.25	.00	.00	.00	.00	.00	.51	.00
17	.00	.00	.00	.00	1.27	.51	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00	.00
19	8.64	.00	1.78	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	5.08	.00	.00	.00	.00	.00	.00	.00	.00	2.79	.00	.00
21	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	1.78	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	4.06	1.02	.51	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.27	3.05	.00
26	.00	1.27	.00	.00	.00	2.29	.51	.00	.00	.00	7.37	.00
27	.00	.76	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00
28	.00	.00	3.30	.00	5.33	2.03	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	1.52	.00	.76	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	3.30	---	4.57	.00	---

PRECIPITATION DATA—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR JUNE 1989 TO SEPTEMBER 1989
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	.00	.00	.00	.00
2	---	---	---	---	---	---	---	---	.00	.00	.00	.00
3	---	---	---	---	---	---	---	---	.00	.00	2.29	4.06
4	---	---	---	---	---	---	---	---	.00	.00	.25	1.02
5	---	---	---	---	---	---	---	---	.00	.00	.00	.00
6	---	---	---	---	---	---	---	---	.00	.00	.00	.00
7	---	---	---	---	---	---	---	---	.00	.00	.00	.00
8	---	---	---	---	---	---	---	---	.00	.00	.00	.00
9	---	---	---	---	---	---	---	---	.00	4.32	.51	.00
10	---	---	---	---	---	---	---	---	.00	1.27	.00	.00
11	---	---	---	---	---	---	---	---	.00	.00	.25	.00
12	---	---	---	---	---	---	---	---	.51	.00	.00	.00
13	---	---	---	---	---	---	---	---	.00	.00	.00	.00
14	---	---	---	---	---	---	---	---	.00	.00	.00	.00
15	---	---	---	---	---	---	---	---	.00	.00	.00	.00
16	---	---	---	---	---	---	---	---	.00	4.06	.00	.00
17	---	---	---	---	---	---	---	---	.00	.00	.00	.00
18	---	---	---	---	---	---	---	---	.00	.00	28.45	.00
19	---	---	---	---	---	---	---	---	.00	.00	8.13	.00
20	---	---	---	---	---	---	---	---	.00	.00	.00	.00
21	---	---	---	---	---	---	---	---	.00	.76	.00	.00
22	---	---	---	---	---	---	---	---	.00	.76	.00	.00
23	---	---	---	---	---	---	---	---	.00	.25	.00	.00
24	---	---	---	---	---	---	---	---	.00	1.27	.00	.00
25	---	---	---	---	---	---	---	---	.00	3.05	.00	.00
26	---	---	---	---	---	---	---	---	.00	2.79	.00	.00
27	---	---	---	---	---	---	---	---	.00	.00	.00	.00
28	---	---	---	---	---	---	---	---	.00	.00	.00	.00
29	---	---	---	---	---	---	---	---	.00	.00	.00	.00
30	---	---	---	---	---	---	---	---	.00	.00	.00	.25
31	---	---	---	---	---	---	---	---	---	5.33	.00	---

PRECIPITATION DATA—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	1.52	.00	.00	.00	9.65
2	.00	.00	.00	.00	.00	.00	.00	2.03	.00	13.97	.00	.00
3	.00	.00	.00	.00	3.05	.00	.00	.00	.00	.00	.00	.00
4	5.33	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00	1.27
5	1.02	.00	.00	.00	1.02	.00	.00	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.78	.00	.00
7	.00	.00	.00	.00	.00	.00	2.79	.00	.00	13.21	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.60	3.30	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	1.52	.00
10	.00	.00	.00	.00	.00	.25	.00	.00	3.30	.51	.00	.00
11	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.79	.00
13	.00	.00	.00	.00	.00	1.27	.00	.00	.00	.00	.76	.00
14	.00	.00	.00	.51	.00	.25	.00	.00	.00	4.06	7.62	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	8.64	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.27	1.52
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00	.51
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	6.35
19	.00	.00	.00	.00	1.27	.00	.00	.00	.00	.00	.00	.76
20	.25	.25	.00	.00	.25	.00	.00	.00	.00	.51	.00	22.86
21	2.03	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.02
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	4.57
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00	.51
24	.00	.00	.00	.00	.00	.00	6.35	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	7.62	.00	---	.00	.00	1.02	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.25	.00	.00	.00	.00	4.06	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.25	---

PRECIPITATION DATA—Continued

09394500 LITTLE COLORADO RIVER AT WOODRUFF, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.27	.00	.00	.00	.00	.76	.00	.00	2.54	.00	.00	.00
2	3.05	19.81	.00	.00	.00	4.06	.00	.00	.25	.00	.00	.00
3	.00	5.08	.00	.76	.00	.00	.00	.00	.00	.00	.76	.00
4	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	3.05	.00
5	.00	.00	.00	8.13	.00	.00	.00	.00	.00	.00	.00	7.11
6	.00	.00	.00	12.95	.00	.00	.00	.00	.00	2.29	.25	.25
7	.00	4.83	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	2.54	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	2.79	.00	.25	.00
12	.00	.00	3.81	.00	.00	.00	.00	.00	1.02	.00	.00	.00
13	.00	.00	.25	.00	.00	.00	.00	.00	1.78	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	4.57	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	4.57	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.25	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	2.29	.00	.00	.00	.00	.00	.00
20	4.32	.00	1.78	.00	.00	3.05	.00	.00	.00	5.08	.00	.00
21	.00	.00	.00	.25	.00	1.52	.00	.00	.00	1.27	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.56
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.59	2.29
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.25	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	4.83	.00	.00	.00	4.06	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	6.35	.00	6.60	.25	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	2.03	.00
31	.00	---	.00	.00	---	.00	---	6.35	---	.00	.00	---

PRECIPITATION DATA—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1988 TO SEPTEMBER 1989
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	---	---	.00	.00	.00	19.05	.00
2	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	---	---	.00	.00	.00	26.42	.00
4	.25	.00	.00	8.13	.00	---	---	.00	.00	.00	.00	.51
5	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
6	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
7	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.25	---	---	.00	.00	.00	.76	.00
10	.00	.00	.00	.00	.00	---	---	.00	.00	.76	.00	.00
11	.00	.00	.00	.00	.00	---	---	.00	.00	16.26	.00	.00
12	.00	.00	.00	.00	.00	---	---	1.52	2.29	.00	.00	.00
13	.00	.00	.00	.00	.25	---	---	1.02	.00	.00	.00	.00
14	.00	2.54	.00	.00	.00	---	---	.00	.00	.00	.00	.00
15	13.97	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
16	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.00	---	---	.00	.00	.00	1.02	.00
18	.00	3.56	.00	.00	.00	---	---	.00	.00	.00	8.38	.00
19	.00	.00	.00	.00	.00	---	---	.00	.00	.00	.51	.00
20	.00	.25	.00	.00	.00	---	---	.00	.00	.25	.25	.00
21	.00	.00	.00	.00	.00	---	---	.00	.00	1.27	.00	.00
22	.00	.00	.00	.00	.00	---	.00	.00	.00	.76	.00	.00
23	.00	.00	.00	.00	.00	---	.00	.00	.00	.25	.00	.00
24	.00	.76	.00	.51	.00	---	.00	.00	.00	1.02	.00	.00
25	.00	3.05	.76	.00	.00	---	.00	.00	.00	16.26	.00	.00
26	.00	.00	.51	.00	.00	---	.00	.00	.00	5.33	.00	.00
27	.00	.00	.00	.00	.00	---	.00	.00	.00	.25	.00	.00
28	.00	.00	.00	.25	.00	---	.00	.00	.00	6.10	.00	.00
29	.00	.00	.00	.00	---	---	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	---	.00	.00	.00	5.33	.00	.00
31	.00	---	.00	.00	---	---	---	.00	---	2.54	.00	---

PRECIPITATION DATA—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	1.02	.00	.00	.00	.00	.00	.00	4.57
2	.00	.00	.00	.25	3.81	.00	.00	.25	.00	.76	.00	.51
3	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.00	1.78	.00	.00	.00	.00	.00	.00	.51
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.25	.00
7	.00	.00	.00	.00	.00	.00	.51	.00	.00	8.38	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.27	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	1.78	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.25	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00
13	.00	.00	.00	.00	.00	3.30	.00	.00	.00	.00	2.03	.00
14	.00	.00	.00	.00	.00	.25	.00	.00	.00	.76	1.27	.00
15	.00	.00	.00	1.27	.00	.00	.00	.00	.00	1.52	14.73	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.52	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.76	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	2.54	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	1.27	.00	.00	.00	.00	.00	.00	.00
21	3.56	1.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	4.32	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00
26	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	.00	.00	6.60	.00	---	.00	.00	1.02	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.25	.00	1.52	.00	.00	.25	.00
31	.00	---	.00	.00	---	.00	---	.00	---	.00	.76	---

PRECIPITATION DATA—Continued

09397300 LITTLE COLORADO RIVER NEAR JOSEPH CITY, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	3.56	.00	.00	3.30	.00	.00	.00
2	.25	3.05	.00	.00	.00	5.33	.00	.00	.51	.00	.00	.00
3	.00	4.32	.00	1.02	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	1.78	.00	1.02	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.25	.00	4.06	.00	.00	.00	.00	.00	.00	.51	.00
6	.00	.00	.00	11.18	.00	.00	.00	.00	.00	.00	.00	.00
7	.00	.76	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.02
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.25	.00	.00	.00	.00	2.79	.00	.25	.00
12	.00	.00	5.59	.00	.00	.00	.00	.00	.76	.00	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.25	.00	.25	.00	.51	.00	.00	.00	.00	.00	.00
15	.00	.00	4.32	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	.00	.00	2.79	.00	.00	.00	.00	.00	.00	.00	.00	.00
17	.00	.00	.00	.00	.51	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
19	.00	.00	.00	.00	.00	.76	.00	.00	.00	.00	.00	.00
20	.00	.00	.51	.00	.00	.51	.00	.00	.00	.00	.00	.00
21	.51	.00	.00	.76	.00	.00	.00	.00	.00	.00	.00	.00
22	.76	.00	1.27	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.25	.25	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
26	.00	3.30	.25	.00	.00	.51	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.51	.00	.00	.00	.00	.25	.00
28	.00	.00	2.54	.00	3.81	1.78	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	1.78	---	.00	.00	---

PRECIPITATION DATA—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ

RAINFALL ACCUMULATED (MILLIMETERS), DECEMBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	.51
2	---	---	---	.00	.00	.00	---	.25	.00	3.05	1.02	.25
3	---	---	---	.00	.00	.00	---	.00	.00	1.52	.00	1.52
4	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00
5	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00
6	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	5.08
7	---	---	---	.00	.00	.00	---	.00	.00	2.54	.00	.00
8	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00
9	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00
10	---	---	---	.00	.00	.00	---	.00	.51	.51	.00	.00
11	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00
12	---	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00
13	---	---	---	.00	.00	.25	---	.00	.00	.00	.00	.00
14	---	---	---	.00	1.02	.25	---	.00	.00	.00	4.06	.00
15	---	---	---	2.79	.00	---	---	.00	.00	.00	3.56	.00
16	---	---	---	.25	.00	---	---	.00	.00	.00	1.27	8.64
17	---	---	---	.00	.00	---	---	.00	.00	.00	1.02	.25
18	---	---	---	.00	.00	---	---	.00	.00	.51	.00	13.97
19	---	---	.00	.00	10.16	---	---	.00	.00	.00	.00	.00
20	---	---	.00	.00	4.83	---	---	.00	.00	.00	.00	1.78
21	---	---	.00	.00	.00	---	---	.00	.00	3.05	.00	2.54
22	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00	.00
23	---	---	.00	.00	.00	---	.00	.00	.00	4.32	.00	.00
24	---	---	.00	.00	.00	---	3.30	.00	.00	.00	.00	.00
25	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00	.00
26	---	---	.00	.00	.25	---	.00	.00	.00	.00	.00	.00
27	---	---	.00	.00	.00	---	.00	.00	.00	.00	.00	.00
28	---	---	.00	.00	.00	---	.00	.25	.00	.00	.00	.00
29	---	---	11.43	.00	---	---	.00	.00	.00	.00	.00	.00
30	---	---	.00	.00	---	---	.25	.00	.00	.00	.00	.00
31	---	---	.00	.00	---	---	---	.00	---	.00	1.78	---

PRECIPITATION DATA—Continued

09401000 LITTLE COLORADO RIVER AT GRAND FALLS, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	10.16	.00	.00	5.84	.00	13.72	1.52
2	.00	2.29	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	1.52	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.25	.00	9.14	.00	.00	.00	.00	.00	.00	.00	.00
5	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	1.27	.00
6	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	5.59	.00
7	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.81	.51	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.30	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.76	.00
15	.00	.00	.00	.00	.00	.00	3.05	.00	.00	.00	4.57	.00
16	.00	.00	2.54	.00	.00	1.78	.00	.00	.00	.00	.00	.00
17	.00	.00	.76	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.05	.51	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.00	.00	.00	1.52	.00	.00	.00	10.67	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.25	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51	.25	.00
26	.00	2.29	.00	.00	.00	3.30	.00	.00	.00	.00	.00	.00
27	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	.00	.00	.25	.00	4.83	1.02	.00	.00	.00	.00	.00	.51
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.25	.00
31	.00	---	.00	.00	---	.00	---	.00	---	1.27	.76	---

PRECIPITATION DATA—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ

RAINFALL ACCUMULATED (MILLIMETERS), DECEMBER 1989 TO SEPTEMBER 1990
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	.00	.00	.00	.25	2.29	.00	.00	.00	3.56
2	---	---	---	.76	.00	.00	.00	.00	.00	.00	3.81	6.86
3	---	---	---	1.52	.00	.25	.00	.00	.00	.00	.00	.00
4	---	---	---	.00	.00	.00	1.78	.00	.00	.00	.00	.00
5	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.51
6	---	---	.00	.00	.00	.00	.00	.00	.00	2.54	.00	.00
7	---	---	.00	.00	.00	.00	.00	.00	.00	7.62	.00	.00
8	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	---	---	.00	.00	.00	.00	.00	.00	4.06	.00	.00	.00
11	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
12	---	---	.00	.00	.00	2.03	.00	.00	.00	.00	.00	.00
13	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	---	---	.00	.00	.00	.00	.00	.00	.00	.00	1.52	.00
15	---	---	.00	.00	.00	.00	.00	.00	.00	.00	6.86	.00
16	---	---	.00	.00	.00	.00	.00	.00	.00	.00	4.32	3.05
17	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	---	---	.00	.00	.25	.00	2.29	.00	.00	.00	.00	13.97
19	---	---	.00	9.91	13.21	.00	.00	.00	.00	.00	.00	.25
20	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	3.30
21	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
22	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
23	---	---	.00	.00	.00	.00	.00	.00	.00	34.54	.00	3.56
24	---	---	.00	.00	.00	.00	3.81	.00	.00	.00	.00	.00
25	---	---	.00	.00	.00	.00	1.27	.00	.51	.00	.00	.00
26	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
27	---	---	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
28	---	---	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00
29	---	---	10.41	.00	---	1.52	.00	.00	.00	.00	.00	.00
30	---	---	.00	.00	---	.00	8.38	.00	.00	.00	.00	.00
31	---	---	.00	.00	---	3.81	---	.00	---	.00	.00	---

PRECIPITATION DATA—Continued

09402000 LITTLE COLORADO RIVER NEAR CAMERON, AZ—Continued

RAINFALL ACCUMULATED (MILLIMETERS), WATER YEAR OCTOBER 1990 TO SEPTEMBER 1991
DAILY SUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	.00	.00	.00	.00	5.59	.00	.00	.00	.00	.00	3.81
2	1.02	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
3	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
4	.00	.00	.00	12.19	.00	.00	.00	.00	.00	.00	.00	.25
5	.00	.00	.00	.25	.00	.00	.00	.00	.00	.00	.00	.25
6	.00	3.30	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25
7	.00	1.78	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
8	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
9	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
10	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
11	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.25	.00
12	.00	.00	.51	.00	.00	.00	.00	.00	.00	.76	.00	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
15	.00	.00	.00	.25	.00	1.78	.00	.00	.00	.00	.00	.00
16	.00	.00	2.54	.00	.00	12.95	.00	.00	.00	.00	.00	.00
17	.00	.00	11.18	.00	.00	.00	.00	.00	.00	.00	.00	.00
18	.00	.00	.76	.00	.00	.00	.00	.00	.00	.25	1.27	.00
19	1.78	.00	.76	.00	.00	.00	.00	.00	.00	.00	.00	.00
20	.00	.00	.51	.00	.00	.51	.00	.00	.00	4.06	.00	.00
21	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
22	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
23	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
24	.00	.00	.00	.00	.00	.00	.00	.00	.00	1.02	.00	.00
25	.00	.00	.00	.00	.00	.00	.00	.00	.00	17.53	.00	.00
26	.00	.51	.00	.00	.00	13.46	.00	.00	.00	.00	4.57	.00
27	.00	.00	.00	.00	.00	4.57	.00	.00	.00	.00	.00	.00
28	.00	.00	.00	.00	1.78	1.78	.00	.00	.00	.00	.00	.00
29	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
30	.00	.00	.00	.00	---	.00	.00	.00	.00	.00	.00	.00
31	.00	---	.00	.00	---	.00	---	.76	---	.00	.51	---