UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SELECTED HYDROLOGIC DATA, ARKANSAS RIVER BASIN, PUEBLO AND SOUTHEASTERN FREMONT COUNTIES, COLORADO, 1975-80

By Doug Cain and Patrick Edelmann

Open-File Report 80-1185

Prepared in cooperation with the

Pueblo Area Council of Governments

Lakewood, Colorado

1980

UNITED STATES DEPARTMENT OF THE INTERIOR

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GEOLOGICAL SURVEY

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CONTENTS

ILLUSTRATIONS

TABLES

CONTENTS--Continued

METRIC CONVERSION FACTORS

Inch-pound units in this report may be expressed as metric units by use of the following conversion factors:

To convert inch-pound units	*Multiply by*	*To obtain metric unit*
foot (ft)	0.3048	meter
foot squared (ft^2)	0.0929	meter squared
foot per second (ft/s)	0.3048	meter per second
mile	1.609	kilometer
cubic foot per second (ft^3/s)	0.02832	cubic meter per second

SELECTED HYDROLOGIC DATA, ARKANSAS RIVER BASIN, PUBELO AND SOUTHEASTERN FREMONT COUNTIES, COLORADO, 1975-80

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ABSTRACT

Selected hydrologic data collected in 1975-80 as part of water-quality investigations by the U.S. Geological Survey in Pueblo and southeastern Fremont Counties are presented in this report. The data, in tabular form, consist of streamflow-discharge measurements for 33 sites, channel-geometry measurements for 97 sites, traveltime data for 12 sites, and field and laboratory water-quality analyses for 194 sites. Federal, State, and local officials may find these data useful in making decisions relating to the management of water resources of the area.

INTRODUCTION

This report makes available selected hydrologic data collected from October 1975 through June 1980 as part of water-quality investigations in Pueblo and southeastern Fremont Counties. This report was prepared by the U.S. Geological Survey, in cooperation with the Pueblo Area Council of Governments. Federal, State, and local officials may find these data useful in making decisions relating to the management of water resources of the area.

Appreciation is extended to the many landowners who allowed access to sampling sites on the Arkansas River and its tributaries, and to Bob Jesse and Jim Kasic of the Pueblo Division Engineer's Office of the Colorado Department of Natural Resources, Division of Water Resources, for helping coordinate many of the data-collection activities.

DESCRIPTION OF HYDROLOGIC DATA

Data were collected at 298 surface-water sites. The data, which consist of streamflow-discharge, channel-geometry, and traveltime measurements, and field and laboratory water-quality analyses, are presented in tables 3 through 20 in the Hydrologic Data section at the back of this report. The data in each table are arranged in downstream order. Each data-collection site is keyed to a site number shown on plate 1. Water-quality analyses may be compared to the water-quality guidelines shown in table 1 to indicate relative suitability for various uses.

Table 1.--*Water-quality guidelines applicable*

[From Colorado Department

Water-quality constituent	Units	Water use			
		Recreation		Aquatic life	
		Primary contact	Secondary contact	Cold water	Warm water
Physical					
Temperature	Degrees Celsius	----------	----------	20	30
Dissolved oxygen	Milligram per liter	Aerobic	Aerobic	6, [1]7	
pH	Standard units	6.5 to 9.0	----------	6.5 to 9.0	6.5 to 9.0
Major inorganic					
Dissolved chloride	Milligram per liter	----------	----------	----------	[4]----------
Dissolved sulfate	-----do	----------	----------	----------	----------
Dissolved fluoride	-----do	----------	----------	----------	----------
Free cyanide	-----do	----------	----------	0.005	0.005
Nutrients					
Total ammonia	Milligrams per liter as N-	----------	----------	[3].02	[3].06
Total nitrite	-----do	----------	----------	.05	.5
Total nitrate	-----do	----------	----------	----------	----------
Biological					
Fecal coliform	Colony per 100 milliliters	200	2,000	----------	----------
Trace inorganic					
Dissolved aluminum	Microgram per liter	----------	----------	----------	----------
Total arsenic	-----do	----------	----------	----------	----------
Total barium	-----do	----------	----------	----------	----------
Total beryllium	-----do	----------	----------	----------	----------
Total cadmium	-----do	----------	----------	----------	----------
Dissolved chromium, hexavalent	-----do	----------	----------	----------	----------
Total copper	-----do	----------	----------	----------	----------
Total iron	-----do	----------	----------	----------	----------
Total lead	-----do	----------	----------	----------	----------
Total manganese	-----do	----------	----------	----------	----------
Total mercury	-----do	----------	----------	----------	----------
Total nickel	-----do	----------	----------	----------	----------
Total selenium	-----do	----------	----------	----------	----------
Total silver	-----do	----------	----------	----------	----------
Total uranium	-----do	----------	----------	----------	----------
Total zinc	-----do	----------	----------	----------	----------
Radiochemical					
Radium 226 and 228[5]	Picocurie per liter	----------	----------	----------	----------
Organic					
Aldrin	Microgram per liter	----------	----------	.003	.003
DDT	-----do	----------	----------	.001	.001
Dieldrin	-----do	----------	----------	.003	.003
Endosulfan	-----do	----------	----------	.003	.003
Endrin	-----do	----------	----------	.004	.004
Heptachlor	-----do	----------	----------	.001	.001
Lindane	-----do	----------	----------	.01	.01
Malathion	-----do	----------	----------	.1	.1
Methoxychlor	-----do	----------	----------	.03	.03
Mirex	-----do	----------	----------	.001	.001
Parathion	-----do	----------	----------	.04	.04
PCB's	-----do	----------	----------	.001	.001
Phenol	-----do	----------	----------	[6]1,500	[6]1,500

[1]A guideline of 7 milligrams per liter applies during spawning.
[2]Guideline varies with average daily maximum air temperature.
[3]Nonionized ammonia.
[4]Dissolved.
[5]Concentrations should not be increased by any cause attributable to municipal, industrial, or agricultural practices so as to exceed 5 picocuries per liter.
[6]First guideline for chlorophenol; second for monohydric phenol.

to surface waters intended for various uses

of Health, 1979]

Water use						
Aquatic life						
Cold and warm water by range of alkalinity or water hardness, in milligrams per liter						
0-100	100-200	200-300	300-400	> 400	Agriculture	Domestic supply, Class 2
---	---	---	---	---	---	---
---	---	---	---	---	Aerobic	Aerobic
---	---	---	---	---	---	5.0 to 9.0
---	---	---	---	---	---	250
---	---	---	---	---	---	250
---	---	---	---	---	---	[2]1.4 to 2.4
---	---	---	---	---	---	---
---	---	---	---	---	---	0.5
---	---	---	---	---	10	1.0
---	---	---	---	---	100	10
---	---	---	---	---	---	2,000
100	100	100	100	100	---	---
50	50	50	50	50	100	50
10	300	600	900	1,100	100	1,000
.4	1	5	10	15	10	10
25	25	25	25	25	100	50
5	10	10	20	40	200	1,000
1,000	1,000	1,000	1,000	1,000	---	[4]300
4	25	50	100	150	100	50
1,000	1,000	1,000	1,000	1,000	200	[4]50
.05	.05	.05	.05	.05	---	2
5	10	20	30	40	200	---
50	50	50	50	50	20	10
.1	.1	.15	.20	.25	---	50
30	200	400	800	1,400	---	---
50	50	100	300	600	2,000	5,000
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Data in tables 3 through 11 were collected in 1979 and 1980 as part of an analysis of the waste-assimilation capacity of the Arkansas River (Cain, Baldridge, and Edelmann, 1980). During that investigation, discharge data were collected at 28 sites, channel-geometry data at 71 sites, and water-quality data at 30 sites. Also included are data for temperature, specific conductance, pH, and dissolved oxygen from a continuous recording water-quality monitor on the Arkansas River near Avondale. These data were used to calibrate and verify a water-quality model of the Arkansas River. The model is useful in evaluating the effects of various wastewater-treatment alternatives on water quality of the Arkansas River in Pueblo County.

Data in tables 12 through 15 were collected in November and December 1979 and March 1980 as part of an evaluation of the mixing zones of the effluents from the Pueblo Wastewater Treatment Plant and the CF&I Steel Corp. with the Arkansas River (Cain, Baldridge, and Edelmann, 1980). During the investigation, discharge data were collected at 5 sites, channel-geometry data at 26 sites, and dye-concentration and water-quality data at 141 sites.

Data in tables 16 through 20 were collected between October 1975 and June 1980 to establish a water-quality data base for the Arkansas River and its tributaries. Water-quality data tabulated for 38 sites include water-quality field analyses and laboratory analyses for common chemical constituents, nutrients, bacteria, trace constituents, pesticides, and radiochemical constituents. A summary of selected water-quality data for selected sites is included in table 19.

Because the data tables in this report are organized according to the investigation in which they were collected, data for a specific site may occur in several tables in the report. Table 2 will help the report user find all data for a given site shown on plate 1.

REFERENCES CITED

Cain, Doug, Baldridge, Duaina, and Edelmann, Patrick, 1980, Waste-assimilation capacity of the Arkansas River in Pueblo County, Colorado, as it relates to water-quality guidelines and stream classification: U.S. Geological Survey Water-Resources Investigations 80-82 [in press].

Colorado Department of Health, 1979, Regulations establishing basic standards and an antidegradation standard and establishing a system for classifying state waters, for assigning standards, and for granting temporary modifications: Colorado Department of Health, Water Quality Control Commission, 41 p.

Table 2.--*Index to data location in tables 3 through 20, by site number on plate 1*

Site no. on plate 1	Number of table containing data for each site	Site no. on plate 1	Number of table containing data for each site
1------	3, 4	32------	3, 4, 5, 6
3------	3, 4	33------	4, 5, 6
4------	3, 4, 20	34------	3, 4, 16, 17, 18, 19
5------	3, 4	35------	3, 6, 16, 17, 18, 19
6------	3, 4, 16, 17, 18, 19	37------	3, 4, 5, 6, 16, 17, 18, 19
7------	3, 4	38------	16, 17, 18, 19
8------	3, 4	39------	16, 17, 18, 19
10------	3, 4	40------	20
11------	3, 4	41------	20
12------	4, 16, 17, 19	42------	20
12A-----	3, 4	43------	20
13------	3, 16, 17, 18, 19	44------	20
14------	3, 4	45------	20
15------	3, 4	46------	20
16------	3, 4, 16, 17, 18, 19	47------	16, 17, 18, 19
18------	3, 4, 13, 14, 15	48------	20
19------	3, 4, 13, 14, 15	49------	20
20------	6	50------	20
20A-----	13, 14, 15	51------	16, 17, 19
21------	3, 4, 5, 6, 11, 16, 17, 18, 19	52------	16, 17, 19
		53------	16, 17, 19
22------	3, 5, 6	54------	16, 17, 18, 19
23------	3, 4, 5, 6, 11, 16, 17, 18, 19	55------	16, 17, 19
		56------	16, 17, 19
24------	3, 4	56A-----	16, 17, 19
25------	3	57------	16, 17, 18, 19
26------	3, 4, 16, 17, 18, 19	58------	16, 17, 19
27------	4, 5, 6	59------	16, 17, 19
28------	3, 5, 6	61------	16, 17, 19
29------	3, 4, 5, 6, 7, 8, 9, 10, 11, 16, 17, 18, 19	CS1-----	12, 13, 14, 15
		CS2-CS16---	12, 14, 15
30------	3, 4, 16, 17, 18, 19	CS17-----	12, 13, 14, 15
31------	3, 5, 6	CG1-CG61---	5

[5] (page 7 follows)

HYDROLOGIC DATA

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*

EXPLANATION OF HEADING INFORMATION

UNITS: DEG C=DEGREES CELSIUS; MICROMHOS=MICROMHO PER CENTIMETER AT 25° CELSIUS; MG/L-MILLIGRAM PER LITER

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
07099400 - ARKANSAS RIVER ABOVE PUEBLO (SITE NO. 1 ON PLATE 1)												
SEP , 1979												
19...	0900	19.5	433	8.0	8.3	.14	.11	.03	.06	.21	.41	.8
19...	1615	20.0	420	8.2	8.3	.37	.34	.03	.08	.22	.67	.6
19...	2205	19.0	440	7.5	7.4	.43	.39	.04	.04	.28	.75	1.5
20...	0400	19.0	435	7.3	7.6	.35	.29	.06	.08	.23	.66	1.2
381604104440500 - GOODNIGHT DRAIN AT MOUTH NEAR PUEBLO (SITE NO. 3 ON PLATE 1)												
SEP , 1979												
19...	1010	12.5	3140	6.7	7.7	.92	.81	.11	.16	17	18	.1
19...	2250	17.0	3170	7.2	7.7	1.4	1.3	.15	.10	17	18	1.5
381604104394200 - PUEBLO BLVD STORM DRAIN AT MOUTH NEAR PUEBLO (SITE NO. 4 ON PLATE 1)												
SEP , 1979												
19...	1025	16.5	2000	8.8	8.2	1.3	1.3	.05	.12	19	20	.6
19...	2305	16.0	2000	7.6	7.5	1.6	1.5	.06	.10	18	20	2.1
381603104392200 - CITY PARK DRAIN NO. 1 AT MOUTH NEAR PUEBLO (SITE NO. 5 ON PLATE 1)												
SEP , 1979												
19...	1045	17.0	1240	7.7	8.2	.86	.80	.06	.04	4.9	5.8	.3
19...	2335	17.0	1200	7.5	7.9	.68	.62	.06	.04	4.8	5.5	1.2

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
07099500 - ARKANSAS RIVER NEAR PUEBLO (SITE NO. 6 ON PLATE I)												
SEP , 1979												
19...	1100	19.0	545	8.6	8.4	.51	.46	.05	.06	.78	1.4	.9
19...	1710	22.0	655	9.0	8.6	.77	.74	.03	.06	1.1	2.0	.8
19...	2350	21.0	550	6.7	8.3	.48	.45	.03	.00	1.3	1.8	1.2
20...	0455	18.0	608	6.7	7.6	.42	.38	.04	.04	1.1	1.5	1.5
381623104390500 - NORTH SIDE WATERWORKS SLUICE AT MOUTH NR PUEBLO (SITE NO. 7 ON PLATE I)												
SEP , 1979												
19...	1755	23.0	450	7.1	9.0	.46	.43	.03	.06	.12	.64	1.5
20...	0550	17.0	450	7.4	7.4	.41	.39	.02	.02	.26	.69	1.5
381608104383800 - CITY PARK DRAIN NO. 2 AT MOUTH NEAR PUEBLO (SITE NO. 8 ON PLATE I)												
SEP , 1979												
19...	1145	16.0	1440	7.8	7.9	.79	.51	.28	.14	1.9	2.7	.7
20...	0025	16.0	1590	7.5	7.9	.43	.17	.26	.08	1.8	2.3	1.2
381621104382000 - NORTH SIDE WATERWORKS DRAIN AT MOUTH NR PUEBLO (SITE NO. 10 ON PLATE I)												
SEP , 1979												
19...	1825	20.5	465	6.8	8.6	.51	.44	.07	.08	.11	.70	1.0
20...	0625	17.0	475	6.7	7.5	.64	.35	.29	.04	.19	.87	1.0

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381628104381700 - DRY CREEK AT MOUTH NEAR PUEBLO (SITE NO. 11 ON PLATE 1)												
SEP , 1979												
19...	1900	22.0	5000	9.5	8.5	.84	.76	.08	.48	37	38	1.7
20...	0645	12.0	5000	7.5	7.8	.38	.29	.09	.57	37	38	1.4
381515104363100 - I-25 TRIBUTARY AT MOUTH AT PUEBLO (SITE NO. 12A ON PLATE 1)												
SEP , 1979												
19...	1530	18.5	2540	8.0	8.0	.71	.67	.04	.04	9.4	10	.5
20...	0310	18.0	2470	7.5	7.7	.86	.68	.18	.04	9.1	10	.9
381516104362200 - ARKANSAS RIVER AT SANTA FE AVE AT PUEBLO (SITE NO. 13 ON PLATE 1)												
SEP , 1979												
19...	1315	24.0	779	15.4	9.0	1.9	1.9	.03	.08	1.2	3.2	2.0
19...	2015	18.5	940	5.2	8.2	.87	.82	.05	.08	1.6	2.6	1.5
20...	0130	18.5	840	5.8	7.6	.61	.58	.03	.08	1.4	2.1	1.7
20...	0725	16.0	1030	7.4	7.6	.65	.61	.04	.08	1.8	2.6	1.2
381508104354400 - SOUTHERN COLO POWER OUTFALL AT MOUTH AT PUEBLO (SITE NO. 14 ON PLATE 1)												
SEP , 1979												
19...	1445	23.5	480	8.9	8.7	.48	.45	.03	.08	.33	.89	1.8
19...	2030	22.0	515	8.4	8.8	.67	.57	.10	.04	.40	1.1	1.6
20...	0225	22.5	511	7.7	8.1	.44	.37	.07	.06	.34	.84	2.1
20...	0840	22.0	490	7.8	7.8	2.3	2.3	.04	.06	.35	2.7	.6

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381510104350900 - ARKANSAS RIVER NR COLO HWY 227 NEAR PUEBLO (SITE NO. 15 ON PLATE 1)												
SEP , 1979												
19...	1005	20.0	640	8.7	8.5	.11	.07	.04	.06	.57	.74	1.1
19...	1400	22.0	650	9.7	8.8	.48	.43	.05	.08	.55	1.1	1.5
19...	1805	22.5	635	9.0	8.8	.57	.52	.05	.08	.55	1.2	1.8
19...	2220	20.5	678	6.1	8.4	.52	.28	.24	.02	.62	1.2	2.1
20...	0155	19.5	675	5.8	8.2	.56	.51	.05	.04	.69	1.3	1.8
20...	0550	19.0	685	6.1	8.2	.48	.44	.04	.08	.68	1.2	2.0
381515104351900 - FOUNTAIN CREEK AT MOUTH NEAR PUEBLO (SITE NO. 16 ON PLATE 1)												
SEP , 1979												
19...	1015	15.0	2000	8.2	8.4	.55	.48	.07	.08	4.5	5.2	1.5
19...	1405	25.0	1900	6.4	8.4	1.5	1.5	.03	.08	3.8	5.4	1.7
19...	1830	22.0	1900	7.0	8.5	1.3	1.3	.02	.06	3.7	5.1	.9
19...	2235	17.0	2000	7.7	8.4	1.2	1.2	.04	.08	4.4	5.7	.9
20...	0220	14.0	2150	8.2	8.3	.97	.89	.08	.06	4.6	5.7	1.7
20...	0605	12.5	2250	8.6	8.3	.82	.75	.07	.10	4.3	5.2	1.3

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381522104342100 - PUEBLO WASTEWATER TREATMENT PLANT OUTFALL (SITE NO. 18 ON PLATE 1)												
SEP , 1979												
19...	0905	20.0	1600	7.2	8.0	20	1.0	19	.25	.14	20	34.2
19...	1100	21.0	1600	6.5	7.8	28	11	17	.25	.08	28	22.7
19...	1305	22.0	1700	6.8	7.7	19	7.0	12	.25	.14	19	37.7
19...	1500	23.0	1680	6.8	7.8	22	2.0	20	.27	.06	22	46.2
19...	1700	23.0	1650	6.1	7.8	21	1.0	20	.26	.00	21	46.6
19...	1905	23.0	1710	5.7	7.8	21	2.0	19	.16	.00	21	52.7
19...	2115	22.0	1650	5.6	7.7	25	4.0	21	.12	.00	25	56.6
19...	2315	22.0	1720	5.5	7.7	10	.00	23	.16	.00	10	52.7
20...	0105	22.0	1630	5.5	7.7	20	2.0	18	.14	.01	20	70.6
20...	0300	21.5	1670	5.7	7.7	25	5.0	20	.14	.01	25	56.7
20...	0510	21.0	2070	5.9	7.7	24	6.0	18	.14	.06	24	51.7
20...	0635	21.0	1660	6.3	7.7	28	8.0	20	.19	.18	28	54.6
381522104341800 - CF&I STEEL CORP OUTFALL (BEFORE FEBRUARY 1980) (SITE NO. 19 ON PLATE 1)												
SEP , 1979												
19...	0935	25.0	550	6.2	8.1	.80	.42	.38	.25	1.1	2.1	2.3
19...	1120	25.0	550	6.1	8.4	.85	.49	.36	.21	1.3	1.4	1.0
19...	1325	27.0	545	6.4	8.4	.86	.48	.38	.25	.95	2.1	2.3
19...	1520	27.0	545	6.3	8.4	.70	.38	.32	.25	.95	1.9	1.9
19...	1730	27.5	550	5.5	8.3	1.0	.67	.33	.23	1.2	2.4	1.6
19...	1925	27.0	540	4.5	8.3	.74	.39	.35	.23	.97	1.9	2.8
19...	2145	27.0	550	5.0	8.2	.86	.53	.33	.21	.99	2.1	1.9
19...	2330	27.0	560	5.1	8.2	.78	.28	.50	.19	1.0	2.0	2.5
20...	0120	27.0	560	5.3	8.2	.76	.40	.36	.23	1.1	2.1	2.2
20...	0315	26.5	560	5.2	8.1	.90	.54	.36	.19	1.0	2.1	1.6
20...	0525	26.0	560	5.1	8.1	.93	.57	.36	.23	.97	2.1	3.7
20...	0650	26.0	560	5.3	8.1	.75	.23	.52	.23	.97	2.0	4.0

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381547104330800 - ARKANSAS RIVER NR 23D LANE NEAR PUEBLO (SITE NO. 21 ON PLATE 1)												
SEP , 1979												
19...	1345	25.5	900	6.6	8.2	2.8	.20	2.6	.39	.91	4.1	6.3
19...	1630	25.0	925	6.4	8.4	2.8	.10	2.7	.39	.91	4.1	3.9
19...	2125	19.0	905	4.8	8.2	3.4	.80	2.6	.35	.85	4.6	7.9
20...	0040	19.0	877	4.9	8.0	2.6	.00	2.7	.33	.87	3.8	8.3
20...	0440	19.0	836	4.9	7.9	2.0	.30	1.7	.32	.98	3.3	6.7
381601104313000 - ARKANSAS RIVER AT 28TH LANE NEAR PUEBLO (SITE NO. 22 ON PLATE 1)												
SEP , 1979												
19...	1415	26.0	900	6.4	8.1	2.3	.40	1.9	.53	.97	3.8	4.7
19...	1715	25.5	900	5.8	8.2	2.9	.80	2.1	.54	.96	4.4	5.5
19...	2210	21.5	800	4.1	7.9	2.6	.50	2.1	.49	.91	4.0	6.7
20...	0015	21.0	745	3.9	7.8	2.7	.50	2.2	.45	.95	4.1	7.1
20...	0530	20.0	875	4.0	7.8	1.4	.00	1.6	.43	.97	2.8	6.7
381530104294600 - ARKANSAS RIVER AT COLO HWY 233 AT BAXTER (SITE NO. 23 ON PLATE 1)												
SEP , 1979												
19...	1130	22.0	870	5.7	8.0	1.4	.50	.90	.44	1.3	3.1	1.9
19...	1445	26.0	925	5.6	8.1	1.6	.00	1.7	.58	1.2	3.4	3.9
19...	1800	25.5	920	5.0	8.1	2.1	.40	1.7	.62	1.2	3.9	4.3
19...	2245	20.0	925	3.7	7.8	2.1	.30	1.8	.55	1.1	3.7	4.3
20...	0200	21.0	928	3.5	7.7	2.4	.50	1.9	.51	.99	3.9	5.9
20...	0615	19.0	940	3.4	7.7	2.7	.90	1.8	.47	.93	4.1	5.1

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381609104282600 - MEADOWBROOK WASTEWATER TREATMENT PLANT OUTFALL (SITE NO. 24 ON PLATE 1)												
SEP , 1979												
19...	1215	20.0	1700	6.7	7.8	1.6	1.4	.22	.25	12	14	.0
19...	1515	21.0	1700	6.6	7.9	.66	.40	.26	.23	13	14	2.7
19...	1845	21.0	1700	6.3	8.1	1.2	.91	.29	.30	13	14	.0
19...	2345	21.0	1750	7.7	7.7	1.5	1.0	.50	.21	13	15	5.7
20...	0650	20.5	1720	6.5	7.9	1.8	1.3	.55	.34	13	15	8.7
381600104272604 - ARKANSAS R. AB ST. CHARLES R. NEAR VINELAND (SITE NO. 25 ON PLATE 1)												
SEP , 1979												
19...	0905	19.0	861	4.9	7.8	1.8	.70	1.1	.48	1.2	3.5	2.7
19...	1347	24.0	800	6.9	8.0	.95	.20	.75	.42	1.3	2.7	2.3
19...	1655	26.5	800	6.2	7.9	1.7	.60	1.1	.59	1.4	3.7	4.3
19...	2146	23.0	845	4.2	7.8	1.6	.30	1.3	.61	1.5	3.7	5.1
20...	0200	19.0	921	--	7.8	1.7	.30	1.4	.55	1.2	3.4	5.1
20...	0450	19.5	886	4.1	7.8	1.8	.20	1.6	.51	1.2	3.5	5.9
381556104273300 - ST. CHARLES RIVER AT MOUTH NEAR VINELAND (SITE NO. 26 ON PLATE 1)												
SEP , 1979												
19...	0940	17.0	2800	7.6	8.1	.80	.71	.09	.21	11	12	1.0
19...	1425	23.0	2750	9.9	8.3	1.4	1.3	.11	.21	11	12	1.6
19...	1740	23.0	2800	9.3	8.2	1.5	1.4	.09	.21	11	13	2.1
19...	2156	18.0	2810	6.8	8.1	.14	.04	.10	.13	11	11	1.6
20...	0207	16.0	2810	--	8.0	.35	.13	.22	.21	9.8	10	1.6
20...	0504	16.5	2810	6.5	8.0	2.1	2.0	.10	.23	11	13	1.9

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381532104252100 - ARKANSAS RIVER AT 40TH LANE NEAR VINELAND (SITE NO. 28 ON PLATE 1)												
SEP , 1979												
19...	1040	20.0	900	5.6	7.8	1.5	.53	.97	.45	1.8	3.7	3.1
19...	1517	25.0	955	6.7	8.0	1.1	.74	.36	.39	1.8	3.3	1.9
19...	1820	25.0	977	5.7	8.0	1.1	.46	.64	.52	1.9	3.5	4.9
19...	2309	22.0	1010	4.7	7.8	1.6	.72	.88	.59	1.8	4.0	3.4
20...	0330	19.5	1020	4.7	7.8	1.9	.70	1.2	.52	1.5	3.9	3.7
20...	0600	18.0	980	4.7	7.8	1.2	.00	1.2	.49	1.8	3.5	2.5
07109500 - ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)												
SEP , 1979												
19...	1146	21.0	580	5.9	7.9	1.5	.50	1.0	.41	1.7	3.6	2.2
19...	1610	25.5	963	6.8	8.0	.84	.59	.25	.34	2.0	3.1	2.5
19...	1905	24.5	985	5.1	8.0	.86	.53	.33	.41	2.0	3.3	2.8
19...	2400	21.0	1010	--	7.8	1.3	.61	.69	.54	2.0	3.8	3.1
20...	0410	19.0	996	4.7	7.8	1.5	.64	.86	.51	2.0	4.0	1.6
20...	0638	18.0	1020	4.8	7.8	1.4	.45	.95	.47	1.7	3.6	1.9
381440104234200 - SIXMILE CREEK AT MOUTH NEAR AVONDALE (SITE NO. 30 ON PLATE 1)												
SEP , 1979												
19...	1215	17.5	2130	9.9	8.1	2.1	2.1	.04	.06	3.9	6.1	1.5
19...	1930	19.5	2200	7.0	8.1	1.2	1.1	.07	.06	3.7	5.0	1.0
20...	0038	16.0	2260	--	7.9	.83	.78	.05	.02	4.1	5.0	1.4
20...	0700	14.0	2150	7.9	8.0	1.0	.95	.05	.06	3.7	4.8	.7

Table 3.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381432104205500 - ARKANSAS RIVER AT AVONDALE (SITE NO. 31 ON PLATE I)												
SEP , 1979												
19...	0915	18.0	960	6.0	7.5	1.2	.31	.89	.40	2.0	3.6	2.5
19...	1350	23.5	1030	6.1	7.7	1.6	1.1	.54	.36	2.0	4.0	1.3
19...	1645	24.5	1000	6.2	8.0	1.1	.88	.22	.30	2.1	3.5	1.0
19...	2115	22.0	1000	5.4	8.0	.90	.72	.18	.30	2.2	3.4	2.8
20...	0145	20.0	1010	4.9	7.7	2.4	2.0	.40	.47	2.2	5.1	1.0
20...	0445	18.0	1060	5.2	7.7	1.1	.50	.60	.43	2.2	3.7	1.9
381443104184200 - ARKANSAS R AT COLO CANAL HEADGATE NEAR AVONDALE (SITE NO. 32 ON PLATE I)												
SEP , 1979												
19...	1000	18.0	980	7.1	7.8	1.2	.61	.59	.36	2.0	3.6	1.9
19...	1435	24.5	990	6.8	7.9	1.4	.86	.54	.31	2.1	3.8	.9
19...	1730	24.0	980	6.7	8.0	.78	.58	.20	.28	2.2	3.3	1.3
19...	2200	21.0	970	6.6	8.0	.68	.58	.10	.14	2.2	3.0	1.9
20...	0230	19.0	1010	6.4	7.9	.61	.29	.32	.35	2.3	3.2	1.1
20...	0530	17.5	1070	6.6	8.0	1.2	.88	.32	.39	2.3	3.9	1.5
07116500 - HUERFANO RIVER NEAR NEPESTA (SITE NO. 34 ON PLATE I)												
SEP , 1979												
19...	1100	22.0	859	7.3	8.2	.93	.90	.03	.02	4.4	5.3	1.7

Table 3.--*Water-quality field analyses and laboratory analysee of selected constituents for samples collected September 19-20, 1979*--Continued

DATE	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	OXYGEN, DISSOLVED (MG/L)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	CARBONACEOUS BIOCHEMICAL OXYGEN DEMAND, 5 DAY (MG/L)
381336104142400 - ARKANSAS R AT ROCKY FORD HIGHLINE CANAL HEADGATE (SITE NO. 35 ON PLATE 1)												
SEP , 1979												
19...	1130	21.0	1060	7.0	8.0	.94	.62	.32	.26	2.0	3.2	.9
19...	1515	25.5	1000	6.1	8.2	.84	.50	.34	.21	2.0	3.0	1.1
19...	1900	23.0	1030	6.1	8.1	1.1	.83	.27	.19	2.0	3.3	1.3
19...	2315	19.0	1030	6.8	8.0	.66	.58	.08	.12	2.0	2.8	2.1
20...	0315	16.5	1020	7.2	8.0	.52	.46	.06	.12	2.0	2.6	.5
20...	0700	15.0	1080	7.5	8.0	.78	.67	.11	.21	2.1	3.1	.9
07117000 - ARKANSAS RIVER NEAR NEPESTA (SITE NO. 37 ON PLATE 1)												
SEP , 1979												
19...	1215	22.0	990	7.4	8.2	.86	.78	.08	.18	2.1	3.2	1.1
19...	1600	26.0	1020	6.3	8.3	.79	.50	.29	.16	2.1	3.1	1.1
19...	1945	22.5	1010	6.3	8.4	1.2	1.1	.12	.14	2.2	3.5	.7
20...	0015	18.0	1010	6.9	8.2	.66	.51	.15	.12	2.2	3.0	1.7
20...	0400	16.0	1010	7.5	8.2	.51	.47	.04	.06	2.2	2.8	.9
20...	0745	14.5	1030	7.8	8.2	.74	.72	.02	.04	2.1	2.8	.5

Table 4.--*Miscellaneous discharge measurements made on September 19-20, 1979*

Site no. on plate 1	Station no.	Station name	Date of measurement (Y-M-D)	Time	Discharge (cubic feet per second)
1	07099400	Arkansas River above Pueblo----------	79-09-19	0832	98
			79-09-20	0844	98
3	381604104400500	Goodnight drain at mouth----------	79-09-19	0936	.23
4	381604104394200	Pueblo Boulevard storm drain at mouth---	79-09-19	1137	.65
5	381603104392200	City Park drain no. 1 at mouth----------	79-09-19	1008	.97
6	07099500	Arkansas River near Pueblo----------	79-09-19	1100	25
7	381623104390500	North Side Waterworks sluice at mouth---	79-09-19	1240	1.2
8	381608104383800	City Park drain no. 2 at mouth----------	79-09-19	1205	.74
10	381621104382000	North Side Waterworks drain at mouth----	79-09-19	1307	.78
11	381628104381700	Dry Creek at mouth----------	79-09-19	1325	.03
12	381607104372500	Arkansas River at Fourth Street Bridge--	79-09-19	1405	[1]36
			79-09-19	1422	[2]20
12A	381515104363100	I-25 tributary at mouth----------	79-09-19	1523	1.3
14	381508104354400	Southern Colorado Power outfall---------	79-09-19	1553	25
15	381510104350900	Arkansas River near Colorado Highway 227----------	79-09-19	1708	49
16	381515104351900	Fountain Creek at mouth----------	79-09-19	1610	17
			79-09-20	1000	7.0
18	381522104342100	Pueblo Wastewater Treatment Plant outfall----------	79-09-19	1800	22
			79-09-20	0912	29
19	381522104341800	CF&I Steel Corp. outfall (before February 1980)----------	79-09-19	1825	99
			79-09-20	0841	106
21	381547104330800	Arkansas River near 23d Lane----------	79-09-19	0710	174
23	381530104294600	Arkansas River at Colorado Highway 233--	79-09-19	0845	182
24	381609104282600	Meadowbrook Wastewater Treatment Plant outfall----------	79-09-19	1215	.11
			79-09-19	1515	.10
			79-09-19	1845	.04
			79-09-19	2345	.17
			79-09-20	0650	.11
26	381556104273300	St. Charles River at mouth----------	79-09-19	1015	7.4
27	381613104272600	Arkansas River at Colorado Highway 231--	79-09-19	1105	195
29	07109500	Arkansas River near Avondale----------	79-09-19	1155	214
30	381440104234200	Sixmile Creek at mouth----------	79-09-19	1330	6.7
32	381443104184200	Arkansas River at Colorado Canal headgate----------	79-09-19	1500	230
33	381401104153700	Arkansas River at Boone----------	79-09-19	1645	107
34	07116500	Huerfano River near Nepesta----------	79-09-19	1800	.0
37	07117000	Arkansas River near Nepesta----------	79-09-19	1845	132

[1]Upstream from Southern Colorado Power diversion.
[2]Downstream from Southern Colorado Power diversion.

Table 5.--*Channel-geometry measurements made in September 1979*

Channel geometry site no. on plate 1	Station no.	Date of measure-ment (Y-M-D)	Time	Estimated discharge[1] (ft^3/s)	Elevation[2] (feet above mean sea level)	Channel width (feet)	Channel cross-sectional area ($feet^2$)	Mean channel depth (feet)
1	381523104341801	79-09-17	1100	145	4,620	87	78	0.90
2	381525104341401	79-09-17	1117	145	4,618	89	97	1.09
3	381529104340301	79-09-17	1139	235	4,616	80	127	1.59
4	381540104334001	79-09-17	1205	235	4,612	93	106	1.14
5	381530104332201	79-09-17	1223	235	4,608	88	89	1.01
[3]21	381547104330800	79-09-19	0710	174	4,604	78	83	1.06
6	381557104323901	79-09-17	1315	245	4,601	121	101	.83
7	381554104321601	79-09-17	1345	240	4,598	128	132	1.03
8	381603104315701	79-09-17	1400	240	4,594	124	136	1.10
[3]22	381601104313000	79-09-17	1430	240	4,591	122	124	1.02
9	381549104312901	79-09-17	1457	240	4,588	95	101	1.06
10	381540104310101	79-09-17	1518	245	4,583	77	116	1.51
11	381535104303101	79-09-17	1545	245	4,578	196	146	.75
12	381538104301001	79-09-17	1620	245	4,573	101	130	1.29
[3]23	381530104294600	79-09-19	0900	182	4,569	96	105	1.09
13	381537104291701	79-09-18	0950	205	4,563	44	40	.91
14	381545104284101	79-09-18	1035	205	4,556	65	108	1.66
15	381602104283101	79-09-18	1115	210	4,550	85	88	1.04
16	381608104282501	79-09-18	1125	210	4,549	107	130	1.22
17	381610104281801	79-09-18	1142	210	4,548	136	107	.79
18	381605104275901	79-09-18	1215	215	4,547	129	92	.71
19	381600104274201	79-09-18	1300	215	4,546	90	135	1.50
[3]27	381613104272600	79-09-19	1120	195	4,545	56	104	1.86
20	381551104265701	79-09-18	1331	220	4,543	96	85	.89
21	381531104264801	79-09-18	1405	225	4,540	86	126	1.47

Table 5.--*Channel-geometry measurements made in September 1979*--Continued

Channel geometry site no. on plate 1	Station no.	Date of measure-ment (Y-M-D)	Time	Estimated discharge[1] (ft^3/s)	Elevation[2] (feet above mean sea level)	Channel width (feet)	Channel cross-sectional area ($feet^2$)	Mean channel depth (feet)
22	381540104262101	79-09-18	1430	225	4,535	173	138	0.80
23	381530104255501	79-09-18	1503	230	4,529	225	126	.56
24	381535104252401	79-09-18	1521	230	4,527	94	115	1.22
[3]28	381532104252100	79-09-18	1550	235	4,525	118	130	1.10
25	38151010424470	79-09-18	1606	235	4,519	99	127	1.28
26	381501104242201	79-09-18	1630	240	4,514	80	108	1.35
[3]29	07109500	79-09-19	1230	214	4,510	95	101	1.06
27	381457104230401	79-09-19	0955	230	4,508	84	118	1.40
28	381439104224801	79-09-19	1025	230	4,505	142	119	.84
29	381445104221601	79-09-19	1047	230	4,502	78	94	1.21
30	381433104215701	79-09-19	1116	230	4,499	87	100	1.15
31	381431104212901	79-09-19	1230	230	4,494	78	103	1.32
[3]31	381432104205500	79-09-19	1258	230	4,489	195	132	.68
32	381448104203401	79-09-19	1320	230	4,486	132	133	1.01
33	381512104202501	79-09-19	1340	230	4,482	139	111	.80
34	381505104195101	79-09-19	1400	230	4,478	148	126	.85
35	381455104192801	79-09-19	1434	230	4,476	125	130	1.04
36	381448104185701	79-09-19	1450	230	4,473	267	144	.54
[3]32	381443104184200	79-09-19	1530	230	4,470	119	136	1.14
37	381427104183001	79-09-19	1545	[4]50	4,468	52	66	1.27
38	381433104181101	79-09-19	1615	[4]50	4,464	44	28	.64
39	381437104174801	79-09-19	1645	[4]50	4,460	60	24	.40
40	381437104172201	79-09-19	1709	[4]105	4,455	113	56	.50
41	381421104171201	79-09-19	1730	[4]105	4,448	88	69	.78
42	381413104165101	79-09-19	1756	[4]105	4,441	108	57	.53

Table 5.--*Channel-geometry measurements made in September 1979*--Continued

Channel geometry site no. on plate 1	Station no.	Date of measure-ment (Y-M-D)	Time	Estimated discharge[1] (ft^3/s)	Elevation[2] (feet above mean sea level)	Channel width (feet)	Channel cross-sectional area ($feet^2$)	Mean channel depth (feet)
43	381405104162401	79-09-19	1845	[4]105	4,439	161	60	0.37
44	381401104160101	79-09-20	0945	[4]100	4,437	180	66	.37
[3]33	381401104153700	79-09-19	1700	[4]107	4,436	64	64	1.00
45	381357104152001	79-09-20	1019	[4]100	4,435	204	67	.33
46	381401104150001	79-09-20	1050	[4]100	4,433	120	79	.66
47	381335104144101	79-09-20	1123	220	4,431	345	171	.50
48	381343104141101	79-09-20	1230	90	4,429	222	71	.32
49	381340104135001	79-09-20	1255	90	4,427	103	56	.54
50	381314104135301	79-09-20	1330	100	4,424	79	70	.89
51	381306104132801	79-09-20	1350	100	4,421	166	94	.57
52	381251104130601	79-09-20	1420	105	4,418	168	82	.49
53	381236104124401	79-09-20	1450	105	4,413	114	71	.62
54	381224104122501	79-09-20	1510	110	4,410	197	88	.45
55	381211104120301	79-09-20	1556	110	4,406	278	106	.38
56	381208104113801	79-09-20	1628	110	4,403	313	86	.27
57	381214104111201	79-09-20	1706	110	4,400	240	96	.40
58	381200104110401	79-09-20	1730	110	4,398	268	60	.22
59	381141104111401	79-09-20	1745	110	4,395	220	96	.44
60	381125104110601	79-09-20	1630	110	4,392	130	92	.71
61	381130104103601	79-09-20	1700	110	4,389	85	88	1.04
[3]37	07117000	79-09-19	1800	132	4,385	189	114	.60

[1]Estimated from discharge at stations 07109500 Arkansas River near Avondale, and 07117000 Arkansas River near Nepesta.

[2]From U.S. Geological Survey topographic maps.

[3]Surface-water sampling site or sampling station.

[4]Small estimated discharge due to diversion and sluicing of water by Colorado Canal.

Table 6.--*Traveltime data collected during September 1979*

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 17, 1979, at site 20[2]					
21	1.4	240	79-9-17	0950	<0.1
				0955	<.1
				1000	<.1
				1005	<.1
				1010	5.2
				1015	16.4
				1020	20.2
				1025	15.8
				1030	10.2
				1035	6.0
22	3.3	245	79-9-17	1100	<.1
				1105	<.1
				1110	<.1
				1115	<.1
				1120	<.1
				1125	.6
				1130	3.1
				1135	6.8
				1140	8.2
				1145	9.5
				1150	9.4
				1155	7.9
				1200	7.0
				1205	6.2
				1210	4.9
				1215	3.7
				1220	2.8

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 17, 1979, at site 20[2]--Continued					
23	5.4	250	79-9-17	1240	<0.1
				1245	<.1
				1250	<.1
				1255	<.1
				1300	<.1
				1305	<.1
				1310	<.1
				1315	1.0
				1320	1.3
				1325	2.6
				1330	4.1
				1335	5.7
				1340	6.2
				1345	6.9
				1350	6.8
				1355	6.5
				1400	6.0
				1405	5.3
				1410	4.5
				1415	3.9
				1420	3.5
				1425	2.8
				1430	2.2
				1435	1.7
				1440	1.5
				1445	1.3

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 17, 1979, at site 20[2]--Continued					
27	8.1	260	79-9-17	1505	<0.1
				1510	<.1
				1515	.3
				1520	.6
				1525	.9
				1530	1.8
				1535	2.4
				1540	3.0
				1545	3.4
				1550	4.0
				1555	4.4
				1600	4.5
				1605	4.4
				1610	4.3
				1615	4.2
				1620	3.8
				1625	3.6
				1630	3.3
				1635	3.0
				1640	2.7
				1645	2.4
				1650	2.1
				1655	1.8
				1700	1.6
				1705	1.4

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 17, 1979, at site 20[2]--Continued					
28	10.7	265	79-9-17	1653	0.1
				1707	.2
				1721	.8
				1735	1.7
				1749	2.4
				1803	2.6
				1816	2.0
				1830	2.0
				1844	1.6
				1858	1.1
				1912	.9
				1926	.6
				1940	.5
				1954	.4
				2008	.3
				2021	.2
				2035	.2
				2049	.2
				2103	.2
				2117	.1
				2131	.1
				2145	.1

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 17, 1979, at site 20[2]--Continued					
29	12.7	270	79-9-17	1720	<0.1
				1734	<.1
				1747	<.1
				1801	.1
				1814	.2
				1828	.7
				1842	1.2
				1855	1.6
				1909	1.8
				1922	1.8
				1936	1.6
				1950	1.2
				2003	1.0
				2017	.7
				2030	.6
				2044	.5
				2057	.4
				2111	.3
				2125	.2
				2138	.2
				2152	.2
				2205	.1
				2219	.1
				2233	.1

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 18, 1979, at site 29[2]--Continued					
31	3.2	255	79-9-18	1000	<0.1
				1015	<.1
				1030	<.1
				1040	<.1
				1050	<.1
				1100	<.1
				1110	.3
				1115	3.6
				1120	6.9
				1125	9.7
				1130	9.6
				1135	9.4
				1140	7.7
				1145	4.5
				1150	4.1
				1155	1.7
				1200	1.6
				1205	1.3
				1210	.8
				1215	.5

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 18, 1979, at site 29[2]--Continued					
32	6.1	265	79-9-18	1245	0.1
				1250	.1
				1255	.1
				1300	.1
				1305	.1
				1310	.7
				1315	2.1
				1320	3.8
				1325	5.5
				1330	6.7
				1335	7.2
				1340	6.8
				1345	6.4
				1350	5.8
				1355	5.0
				1400	4.5
				1405	3.6
				1410	3.1
				1415	2.6
				1420	2.2
				1425	1.9
				1430	1.6
				1435	1.4
				1440	1.1

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 18, 1979, at site 29[2]--Continued					
33	10.7	140	79-9-18	1345	<0.1
				1359	<.1
				1412	<.1
				1426	<.1
				1439	<.1
				1453	<.1
				1507	<.1
				1520	<.1
				1534	.1
				1547	.3
				1601	.8
				1615	1.6
				1628	2.2
				1642	2.4
				1655	2.2
				1709	1.8
				1722	1.5
				1736	1.3
				1750	.8
				1803	.6
				1817	.4
				1830	.4
				1844	.3
				1858	.3

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0915, September 18, 1979, at site 29[2]--Continued					
35	11.8	230	79-9-18	1412	0.2
				1426	.1
				1454	.1
				1522	.1
				1549	.1
				1617	.1
				1631	.1
				1645	.1
				1659	.1
				1713	.1
				1727	.3
				1740	.7
				1754	.7
				1808	1.0
				1822	.9
				1836	1.4
				1850	.8
				1904	.6
				1918	.5
				1932	.6

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0900, September 19, 1979, at site 35[2]--Continued					
37	6.7	135	79-9-19	1103	0.1
				1117	.1
				1131	.1
				1145	.1
				1159	.1
				1213	.1
				1226	.1
				1240	.1
				1254	.1
				1308	.1
				1322	.1
				1336	.1
				1350	.1
				1404	.1
				1418	.1
				1431	.1
				1445	.1
				1459	1.6
				1513	5.7
				1527	5.9
				1541	4.8
				1555	3.2
				1609	2.2
				1623	1.6
				1631	1.4
				1645	1.2
				1658	.9
				1711	.7
				1724	.6
				1738	.5

Table 6.--*Traveltime data collected during September 1979*--Continued

Site no. on plate 1	Distance downstream from point of injection (miles)	Estimated stream discharge[1] (ft^3/s)	Date of dye sample (Y-M-D)	Time	Dye concentration of grab sample (micrograms per liter)
Slug injection of approximately 1 liter of 20 percent rhodamine-WT dye at 0900, September 19, 1979, at site 35[2]--Continued					
37	6.7	135	79-9-19	1752	0.4
				1806	.4
				1847	.3
				1955	.2
				2049	.2
				2144	.1

[1]Estimated from discharge at streamflow-gaging stations 07109500 Arkansas River near Avondale, and 0711700 Arkansas River near Nepesta.
[2]See plate 1.

Table 7.--*Daily maximum, minimum, and mean temperatures for the Arkansas River near Avondale*

EXPLANATION OF HEADING INFORMATION

UNITS:

DEG C=DEGREES CELSIUS
MAX =MAXIMUM VALUE PER DAY
MIN =MINIMUM VALUE PER DAY
MEAN=MEAN VALUE PER DAY

Table 7.--*Daily maximum, minimum, and mean temperatures for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

TEMPERATURE, WATER (DEG. C), AUGUST 1979 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							---	---	---	---	---	---
2							---	---	---	---	---	---
3							---	---	---	---	---	---
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							28.5	---	---	---	---	---
7							28.5	20.5	24.5	---	---	---
8							25.0	21.5	23.0	---	---	---
9							---	---	---	---	---	---
10							---	---	---	---	---	---
11							---	---	---	26.0	21.5	24.0
12							---	---	---	24.0	21.0	22.5
13							---	---	---	22.0	19.0	20.5
14							---	---	---	21.0	18.0	19.0
15							---	---	---	---	---	---
16							---	---	---	---	---	---
17							---	---	---	---	---	---
18							---	---	---	24.0	16.0	20.0
19							---	---	---	26.0	17.5	22.0
20							---	---	---	24.0	17.5	21.0
21							---	---	---	24.5	18.0	21.0
22							27.5	18.0	22.5	25.0	16.5	20.5
23							26.5	21.0	24.0	25.0	16.5	20.5
24							25.0	20.5	23.0	---	16.0	---
25							25.5	20.0	22.5	25.5	19.0	22.0
26							24.0	20.0	22.0	25.5	18.5	22.0
27							24.0	18.5	21.5	24.0	18.0	21.0
28							26.0	19.5	23.0	24.5	17.5	21.0
29							27.5	19.5	---	25.0	17.5	21.5
30							---	---	---	24.0	17.0	21.0
31							---	---	---	---	---	---

Table 7.--*Daily maximum, minimum, and mean temperatures for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

TEMPERATURE, WATER (DEG. C), OCTOBER 1979 TO JANUARY 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	22.5	17.0	19.5	11.0	7.5	9.5	---	---	---	---	---	---
2	24.0	16.0	20.0	12.0	7.5	9.5	---	---	---	---	---	---
3	20.5	16.5	18.0	11.5	7.5	9.5	---	---	---	---	---	---
4	22.5	15.5	18.5	12.5	8.5	10.0	---	---	---	---	---	---
5	22.0	15.5	18.5	---	---	---	---	---	---	6.5	3.0	4.5
6	23.0	16.0	19.0	---	---	---	---	---	---	5.0	4.5	4.5
7	22.0	15.5	18.5	11.5	10.5	11.0	---	---	---	5.0	2.0	3.5
8	20.0	15.0	17.5	11.0	9.0	10.0	---	---	---	4.5	1.0	3.0
9	17.0	14.5	15.5	10.0	8.0	9.0	---	---	---	5.5	2.5	4.0
10	18.5	13.0	15.5	10.5	7.5	9.0	---	---	---	7.5	2.5	5.5
11	19.5	13.5	16.5	9.5	6.5	8.0	---	---	---	5.5	3.5	4.5
12	17.0	14.0	15.5	9.0	6.0	7.5	---	---	---	7.5	3.0	5.5
13	18.0	13.5	16.0	9.5	6.0	8.0	7.0	3.0	5.0	9.5	5.5	7.5
14	19.5	13.5	16.5	10.0	6.5	8.5	8.0	2.5	5.5	8.5	5.5	7.0
15	19.5	14.5	17.0	10.5	6.5	8.5	10.0	4.0	6.5	9.0	8.0	8.5
16	18.5	14.0	16.0	11.0	7.0	9.0	---	---	---	9.5	7.0	8.0
17	18.5	13.0	16.0	11.0	7.0	9.5	---	---	---	9.5	7.0	8.0
18	18.5	15.5	16.5	11.5	8.0	10.0	---	---	---	8.0	6.0	7.0
19	18.0	14.0	16.0	10.0	7.5	9.0	---	---	---	6.5	5.0	6.0
20	19.0	15.0	16.5	---	---	---	---	---	---	6.0	4.0	5.0
21	15.5	11.5	13.5	---	---	---	---	---	---	7.5	4.0	5.5
22	15.5	10.0	12.5	---	---	---	---	---	---	8.0	5.0	6.0
23	17.0	11.5	14.5	---	---	---	---	---	---	8.0	4.0	6.0
24	17.5	12.5	15.0	---	---	---	---	---	---	9.0	4.5	7.0
25	18.0	13.0	15.5	---	---	---	---	---	---	7.0	4.5	6.0
26	19.0	13.5	16.0	---	---	---	---	---	---	4.0	1.5	2.5
27	17.5	14.0	15.5	---	---	---	---	---	---	---	---	---
28	16.0	12.0	14.0	---	---	---	---	---	---	---	---	---
29	14.5	10.0	12.5	---	---	---	---	---	---	---	---	---
30	9.5	7.0	8.0	---	---	---	---	---	---	5.0	1.0	3.0
31	11.5	6.0	8.5	---	---	---	---	---	---	5.5	1.0	3.5

Table 7.--*Daily maximum, minimum, and mean temperatures for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

TEMPERATURE, WATER (DEG. C), FEBRUARY 1980 TO MARCH 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	7.5	2.5	5.0	7.0	3.0	5.0						
2	7.0	2.5	5.0	10.0	4.5	7.0						
3	7.5	3.0	5.0	11.0	6.5	8.5						
4	8.0	3.5	6.0	9.5	6.5	8.0						
5	8.0	4.0	6.0	10.0	7.5	8.0						
6	7.0	4.0	5.5	12.0	6.5	9.0						
7	6.0	3.0	4.5	12.5	8.0	10.0						
8	5.0	2.0	3.5	13.0	7.5	10.0						
9	5.5	1.5	3.5	12.5	7.5	10.0						
10	7.0	3.0	5.0	13.0	7.0	10.0						
11	5.5	3.5	5.0	---	---	---						
12	7.0	2.5	5.0	---	---	---						
13	8.5	4.0	6.5	---	---	---						
14	6.5	4.0	5.0	---	---	---						
15	4.5	3.0	4.0	---	---	---						
16	5.0	2.5	4.0	---	---	---						
17	7.5	4.0	5.5	---	---	---						
18	10.0	4.5	7.5	---	---	---						
19	10.5	7.0	8.5	---	---	---						
20	8.0	6.5	7.5	---	---	---						
21	9.5	6.0	8.0	---	---	---						
22	10.0	6.0	8.0	---	---	---						
23	9.5	5.5	7.5	---	---	---						
24	10.5	6.5	8.5	---	---	---						
25	10.0	5.0	7.5	---	---	---						
26	10.5	5.5	8.0	---	---	---						
27	12.5	6.5	9.5	---	---	---						
28	12.5	7.0	10.0	---	---	---						
29	9.0	4.5	6.5	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						

Table 8.--*Daily maximum, minimum, and mean specific conductance for the Arkansas River near Avondale*

EXPLANATION OF HEADING INFORMATION

UNITS:

MAX =MAXIMUM VALUE PER DAY
MIN =MINIMUM VALUE PER DAY
MEAN=MEAN VALUE PER DAY

Table 8.--*Daily maximum, minimum, and mean specific conductance for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), JULY 1979 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1				---	---	---	468	430	450	---	---	---
2				---	---	---	523	425	465	---	---	---
3				---	---	---	523	458	485	---	---	---
4				---	---	---	505	463	484	---	---	---
5				---	---	---	503	458	481	---	---	---
6				---	---	---	493	430	464	559	499	529
7				---	---	---	471	406	437	582	514	552
8				---	---	---	---	381	---	765	317	517
9				---	---	---	---	---	---	620	515	585
10				---	---	---	---	---	---	623	323	553
11				---	---	---	---	---	---	528	253	327
12				---	---	---	---	---	---	531	491	507
13				---	---	---	---	---	---	536	491	510
14				---	---	---	---	---	---	641	503	575
15				---	---	---	---	---	---	751	633	679
16				---	---	---	---	---	---	---	---	---
17				---	---	---	---	---	---	---	---	---
18				---	---	---	---	---	---	1040	978	1010
19				---	---	---	---	---	---	1010	938	982
20				---	---	---	---	---	---	1070	973	1010
21				---	---	---	---	---	---	1040	737	874
22				---	---	---	508	481	496	880	458	788
23				---	---	---	501	448	478	864	744	808
24				---	---	---	503	246	376	---	---	---
25				---	---	---	548	466	496	807	712	771
26				---	---	---	541	511	519	789	622	740
27				---	---	---	746	491	577	769	717	740
28				---	---	---	683	618	651	727	385	665
29				---	---	---	---	563	---	700	357	642
30				---	---	---	---	---	---	672	455	618
31				500	410	436	---	---	---	---	---	---

Table 8.--*Daily maximum, minimum, and mean specific conductance for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), OCTOBER 1979 TO JANUARY 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	700	---	---	1040	956	996	---	---	---	---	---	---
2	713	643	669	1050	976	1020	---	---	---	---	---	---
3	717	657	687	1040	946	990	---	---	---	---	---	---
4	712	650	682	993	---	---	---	---	---	---	---	---
5	716	626	659	---	---	---	---	---	---	1260	1180	1220
6	689	631	656	---	---	---	---	---	---	1270	1240	1250
7	687	607	654	995	965	980	---	---	---	1270	---	---
8	613	583	596	1000	943	965	---	---	---	1270	---	---
9	619	574	598	1000	950	973	---	---	---	1280	1200	1230
10	630	577	608	1030	973	1000	---	---	---	1310	1200	1250
11	626	578	599	1030	945	993	---	---	---	1290	1200	1250
12	634	589	606	1030	946	---	---	---	---	1260	1190	1230
13	633	590	611	1040	957	1000	1290	1230	1270	1270	1190	1220
14	649	599	616	1030	971	996	1280	1220	1260	1280	1210	1230
15	662	622	641	1030	945	980	1270	1210	1240	1270	1200	1240
16	719	624	671	1040	969	1010	---	---	---	1260	1220	1240
17	825	712	775	1040	960	1010	---	---	---	1280	1210	1250
18	843	781	805	1040	971	1010	---	---	---	1280	1230	1260
19	887	817	848	1010	955	987	---	---	---	1300	1230	1260
20	870	805	833	---	---	---	---	---	---	1310	1230	1260
21	869	764	820	---	---	---	---	---	---	1310	1230	1270
22	955	853	895	---	---	---	---	---	---	1290	1230	1270
23	957	835	876	---	---	---	---	---	---	1320	1230	1270
24	910	812	842	---	---	---	---	---	---	1380	1280	1320
25	922	862	890	---	---	---	---	---	---	1390	1320	1350
26	900	837	868	---	---	---	---	---	---	1370	1270	1340
27	909	834	864	---	---	---	---	---	---	---	---	---
28	962	892	920	---	---	---	---	---	---	---	---	---
29	977	919	945	---	---	---	---	---	---	1300	1210	1250
30	962	919	937	---	---	---	---	---	---	1290	893	1190
31	1040	941	986	---	---	---	---	---	---	1270	1190	1240

Table 8.--*Daily maximum, minimum, and mean specific conductance for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), FEBRUARY 1980 TO MARCH 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1270	1180	1240	1210	1140	1170						
2	1270	1210	1240	1160	1050	1100						
3	1270	1170	1240	1180	1080	1120						
4	1260	1150	1200	1140	1080	1100						
5	1190	1110	1150	1120	1080	1100						
6	1220	1130	1170	1110	1040	1080						
7	1190	838	957	1110	1050	1080						
8	1020	860	961	1130	1030	1080						
9	1020	973	997	1110	1040	1070						
10	1040	973	995	1120	1020	1060						
11	---	965	---	---	---	---						
12	1030	971	1000	---	---	---						
13	1050	956	1000	---	---	---						
14	1040	967	1000	---	---	---						
15	1030	973	1000	---	---	---						
16	1020	966	999	---	---	---						
17	1040	979	1010	---	---	---						
18	1070	992	1020	---	---	---						
19	1050	978	1020	---	---	---						
20	1070	1010	1040	---	---	---						
21	1100	1040	1060	---	---	---						
22	1100	1030	1060	---	---	---						
23	1080	1030	1060	---	---	---						
24	1080	1020	1050	---	---	---						
25	1230	1010	1080	---	---	---						
26	1330	1260	1300	---	---	---						
27	1320	1240	1280	---	---	---						
28	1340	1180	1230	---	---	---						
29	1330	1200	1260	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						

Table 9.--*Daily maximum, minimum, and mean pH for the Arkansas River near Avondale*

EXPLANATION OF HEADING INFORMATION

UNITS:

MAX =MAXIMUM VALUE PER DAY
MIN =MINIMUM VALUE PER DAY
MEAN=MEAN VALUE PER DAY

Table 9.--*Daily maximum, minimum, and mean pH for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

PH (STANDARD UNITS), AUGUST 1979 TO SEPTEMBER 1979

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							---	---	---	---	---	---
2							---	---	---	---	---	---
3							---	---	---	---	---	---
4							---	---	---	---	---	---
5							---	---	---	---	---	---
6							---	---	---	8.5	7.8	8.2
7							---	---	---	8.6	7.8	8.1
8							---	---	---	8.5	7.8	8.1
9							---	---	---	8.6	7.8	8.1
10							---	---	---	8.6	7.8	8.1
11							---	---	---	8.2	7.7	8.0
12							---	---	---	8.2	7.8	8.0
13							---	---	---	8.2	7.8	8.0
14							---	---	---	7.9	7.6	7.8
15							---	---	---	---	---	---
16							---	---	---	---	---	---
17							---	---	---	---	---	---
18							---	---	---	7.8	7.5	7.7
19							---	---	---	7.9	7.5	7.6
20							---	---	---	7.9	7.5	7.7
21							---	---	---	8.1	7.5	7.7
22							8.6	8.0	8.3	8.2	7.5	7.8
23							8.6	8.1	8.3	8.3	7.5	7.8
24							8.6	8.0	8.3	8.4	7.5	---
25							8.6	8.1	8.3	8.4	7.6	7.9
26							8.6	8.1	8.3	8.4	7.5	7.9
27							8.4	8.0	8.2	8.3	7.6	7.9
28							8.4	8.1	8.2	8.4	7.6	7.9
29							---	8.1	---	8.3	7.6	7.9
30							---	---	---	8.4	7.5	7.9
31							---	---	---	---	---	---

Table 9.--*Daily maximum, minimum, and mean pH for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

PH (STANDARD UNITS), OCTOBER 1979 TO JANUARY 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.4	---	---	8.1	7.8	7.9	---	---	---	---	---	---
2	8.4	7.7	8.0	8.0	7.8	7.8	---	---	---	---	---	---
3	8.4	7.7	7.9	8.1	7.8	7.9	---	---	---	---	---	---
4	8.4	7.7	7.9	8.2	---	---	---	---	---	---	---	---
5	8.5	7.7	8.0	---	---	---	---	---	---	8.4	8.1	8.2
6	8.4	7.7	8.0	---	---	---	---	---	---	8.1	8.1	8.1
7	8.5	7.6	8.0	8.1	7.9	8.0	---	---	---	8.4	8.2	8.3
8	8.2	7.7	7.9	8.4	7.9	8.1	---	---	---	8.4	8.1	8.3
9	8.0	7.7	7.9	8.3	7.9	8.1	---	---	---	8.4	8.1	8.2
10	8.1	7.7	7.9	8.4	8.0	8.1	---	---	---	8.3	8.0	8.2
11	8.1	7.8	8.0	8.5	8.0	8.2	---	---	---	8.3	8.0	8.1
12	8.2	7.8	8.0	8.4	8.0	8.2	---	---	---	8.3	8.0	8.1
13	8.2	7.8	8.0	8.4	8.0	8.2	8.4	8.1	8.2	8.1	8.0	8.0
14	8.2	7.8	8.0	8.4	8.0	8.1	8.2	7.9	8.1	8.1	7.9	8.0
15	8.2	7.8	8.0	8.4	8.0	8.1	8.2	7.9	8.1	8.0	7.9	7.9
16	8.2	7.8	8.0	8.3	7.9	8.1	8.2	7.9	8.0	8.0	7.9	7.9
17	8.2	7.7	7.9	8.3	7.9	8.1	8.2	7.8	8.0	8.0	7.9	7.9
18	8.2	7.6	7.8	8.3	7.9	8.1	8.1	7.8	7.9	8.0	7.9	7.9
19	8.2	7.6	7.8	8.3	8.0	8.1	8.0	7.8	7.9	8.1	7.9	8.0
20	8.3	7.6	7.9	---	---	---	---	---	---	8.1	8.0	8.0
21	7.9	7.6	7.7	---	---	---	---	---	---	8.2	8.0	8.1
22	8.0	7.7	7.8	---	---	---	---	---	---	8.1	7.9	8.0
23	8.1	7.8	7.9	---	---	---	---	---	---	8.1	7.9	8.0
24	8.2	7.7	7.9	---	---	---	---	---	---	8.0	7.8	7.9
25	8.2	7.7	7.9	---	---	---	---	---	---	8.2	7.8	7.9
26	8.2	7.7	7.9	---	---	---	---	---	---	8.1	7.8	8.0
27	8.3	7.7	7.9	---	---	---	---	---	---	8.0	8.0	8.0
28	8.3	7.7	7.9	---	---	---	---	---	---	8.2	8.0	8.1
29	8.4	7.7	7.9	---	---	---	---	---	---	8.1	7.9	8.0
30	8.1	7.8	7.9	---	---	---	---	---	---	8.3	8.0	8.1
31	8.2	7.8	8.0	---	---	---	---	---	---	8.2	8.0	8.1

Table 9.--*Daily maximum, minimum, and mean pH for the Arkansas River near Avondale*--Continued

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)

PH (STANDARD UNITS), FEBRUARY 1980 TO MARCH 1980

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	8.1	7.9	8.0	8.2	8.0	8.1						
2	8.2	8.0	8.1	8.1	7.8	8.0						
3	8.3	8.1	8.2	8.0	7.8	7.9						
4	8.2	8.0	8.2	8.0	7.7	7.8						
5	8.1	8.0	8.1	8.0	7.8	7.9						
6	8.1	8.0	8.1	8.1	7.8	7.9						
7	8.1	8.0	8.0	8.2	7.8	7.9						
8	8.2	8.1	8.1	8.2	7.8	7.9						
9	8.2	8.0	8.1	8.3	7.8	8.0						
10	8.1	8.0	8.0	8.3	7.8	8.0						
11	8.1	7.9	7.9	---	---	---						
12	8.0	7.9	8.0	---	---	---						
13	8.0	7.9	8.0	---	---	---						
14	8.1	7.9	8.0	---	---	---						
15	8.2	8.1	8.1	---	---	---						
16	8.2	8.1	8.2	---	---	---						
17	8.2	8.0	8.1	---	---	---						
18	8.1	7.9	8.0	---	---	---						
19	8.1	7.9	8.0	---	---	---						
20	8.0	8.0	8.0	---	---	---						
21	8.0	7.9	8.0	---	---	---						
22	8.0	7.7	7.9	---	---	---						
23	7.9	7.7	7.8	---	---	---						
24	8.1	7.8	7.9	---	---	---						
25	8.1	7.7	7.9	---	---	---						
26	8.0	7.8	7.9	---	---	---						
27	8.0	7.8	7.9	---	---	---						
28	8.1	7.8	7.9	---	---	---						
29	8.1	7.8	7.9	---	---	---						
30	---	---	---	---	---	---						
31	---	---	---	---	---	---						

Table 10.--*Daily maximum, minimum, and mean dissolved oxygen for the Arkansas River near Avondale*

EXPLANATION OF HEADING INFORMATION

UNITS: MG/L=MILLIGRAM PER LITER; MAX=MAXIMUM VALUE PER DAY;
MIN=MINIMUM VALUE PER DAY; MEAN=MEAN VALUE PER DAY

STATION NUMBER 07109500 ARKANSAS RIVER NEAR AVONDALE (SITE NO. 29 ON PLATE 1)
OXYGEN, DISSOLVED (DO),MG/L, JANUARY 1980 TO MARCH 1980

	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JANUARY			FEBRUARY			MARCH	
1	---	---	---	10.4	8.0	9.3	11.1	8.6	9.7
2	---	---	---	10.5	8.3	9.3	10.6	6.8	8.8
3	---	---	---	10.5	8.8	9.6	9.4	6.3	7.7
4	---	---	---	10.3	8.2	9.7	10.0	6.5	8.0
5	10.6	7.8	9.0	9.5	8.2	9.1	10.7	7.5	8.8
6	7.8	7.8	7.8	9.3	8.0	8.8	10.3	6.9	8.5
7	10.8	8.8	9.8	10.0	8.2	9.2	10.2	6.4	8.0
8	10.9	8.5	9.7	10.5	9.5	10.1	10.6	6.0	8.1
9	10.6	8.4	9.3	10.9	9.4	10.2	10.9	6.3	8.3
10	10.1	7.3	8.9	10.5	9.0	9.8	11.0	6.1	8.3
11	10.2	7.7	9.1	10.7	9.2	10.0	---	---	---
12	10.1	7.9	9.1	11.0	9.0	10.0	---	---	---
13	8.8	7.4	8.2	10.0	8.1	9.1	---	---	---
14	8.8	7.3	8.1	10.1	8.3	9.4	---	---	---
15	7.9	6.8	7.3	10.5	9.5	10.0	---	---	---
16	8.0	7.0	7.4	11.1	9.4	10.2	---	---	---
17	8.1	6.8	7.4	10.5	8.3	9.4	---	---	---
18	8.3	7.0	7.6	9.8	7.0	8.6	---	---	---
19	9.3	7.8	8.5	9.4	6.8	7.8	---	---	---
20	9.8	8.4	9.0	8.8	7.1	8.0	---	---	---
21	9.8	8.3	9.0	9.1	6.9	8.1	---	---	---
22	9.7	7.9	8.7	9.0	6.7	7.6	---	---	---
23	9.9	7.9	8.9	9.4	7.0	8.0	---	---	---
24	9.4	7.1	8.2	9.8	6.9	8.1	---	---	---
25	9.5	7.4	8.4	10.5	7.0	8.5	---	---	---
26	11.0	8.6	9.9	9.6	6.5	7.9	---	---	---
27	10.2	9.9	10.1	9.3	5.7	7.4	---	---	---
28	11.2	9.7	10.6	9.5	5.5	7.1	---	---	---
29	11.0	9.1	10.0	9.8	6.0	8.1	---	---	---
30	11.0	9.0	10.1	---	---	---	---	---	---
31	11.0	8.8	10.0	---	---	---	---	---	---

Table 11.--*Diel data for temperature, specific conductance, pH, and dissolved oxygen for three sites on the Arkansas River on September 18-19, 1979, and February 22-23, 1980*

[Site numbers on plate 1]

Date (Y-M-D)	Time	Temperature (DEG C)	Specific conductance (micromhos per centimeter at 25°C)	pH (units)	Dissolved oxygen (milligrams per liter)
	Site 21	381547104330800	Arkansas River near 23d Lane		
79-09-18	0845	20.0	823	8.1	5.9
	1013	21.2	830	8.1	6.7
	1200	23.0	870	8.1	7.1
	1325	24.0	903	8.2	7.0
	1503	24.8	875	8.3	6.9
	1640	24.6	850	8.3	6.8
	1820	24.4	830	8.2	6.0
	2030	23.0	830	8.1	5.5
	2235	22.2	830	8.1	5.0
79-09-19	0020	21.8	830	8.0	5.0
	0205	21.5	825	8.0	5.1
	0350	21.0	790	8.0	5.2
	0530	21.0	790	8.0	5.3
	0655	20.0	790	8.0	5.5
80-02-22	0640	7.0	990	7.9	9.0
	0820	7.0	1,000	7.9	9.4
	0950	8.0	1,060	8.0	9.6
	1135	9.5	1,070	8.0	9.8
	1320	11.0	1,000	8.0	9.3
	1510	11.5	996	8.0	8.8
	1655	10.5	1,000	8.0	8.7
	1830	10.0	1,020	8.2	8.6
	2100	9.5	1,020	8.2	7.6
	2235	9.0	1,040	8.1	8.0
80-02-23	0020	8.5	1,010	8.1	8.0
	0200	8.0	1,000	8.0	8.3
	0345	7.5	1,010	8.0	9.2
	0525	6.5	1,010	8.0	8.8

Table 11.--*Diel data for temperature, specific conductance, pH, and dissolved oxygen for three sites on the Arkansas River on September 18-19, 1979, and February 22-23, 1980*--Continued

Date (Y-M-D)	Time	Temperature (DEG C)	Specific conductance (micromhos per centimeter at 25°C)	pH (units)	Dissolved oxygen (milligrams per liter)
Site 23 381530104294600 Arkansas River at Colorado Hwy 233					
79-09-18	0812	18.0	897	7.8	---
	0945	19.1	894	7.9	5.4
	1130	21.2	870	7.9	5.9
	1258	23.0	883	7.9	6.1
	1435	24.6	929	7.9	5.8
	1605	25.0	920	7.9	5.7
	1745	24.2	920	7.9	4.9
	1945	23.2	900	7.9	4.3
	2200	21.6	900	7.8	3.8
	2345	20.7	885	7.8	3.8
79-09-19	0130	20.0	905	7.8	3.8
	0315	19.4	900	7.8	3.8
	0450	19.0	900	7.7	4.0
	0630	18.5	900	7.7	4.1
80-02-22	0715	7.0	934	7.8	7.8
	0845	7.5	975	7.8	8.2
	1020	8.0	1,000	7.9	9.0
	1200	9.5	1,020	8.0	8.9
	1355	11.0	1,030	7.9	8.3
	1550	11.0	1,050	7.9	7.6
	1720	10.5	1,050	7.8	7.5
	1930	10.5	1,000	7.9	6.9
	2120	9.0	990	8.0	7.6
	2305	8.5	1,040	7.9	7.4
	0050	8.0	1,030	7.8	7.1
	0230	7.5	1,000	7.7	7.4
	0415	7.0	947	7.8	7.3
	0550	7.0	932	7.8	7.8

Table 11.--*Diel data for temperature, specific conductance, pH, and dissolved oxygen for three sites on the Arkansas River on September 18-19, 1979, and February 22-23, 1980*--Continued

Date (Y-M-D)	Time	Temperature (DEG C)	Specific conductance (micromhos per centimeter at 25°C)	pH (units)	Dissolved oxygen (milligrams per liter)
	Site 29	07109500	Arkansas River near Avondale		
79-09-18	0746	16.6	1,020	7.8	6.8
	0918	17.4	1,020	7.9	6.4
	1104	19.2	990	7.9	7.0
	1230	21.0	983	8.0	6.7
	1410	23.0	970	8.0	6.8
	1538	23.8	960	8.0	6.5
	1717	23.6	970	8.0	6.1
	1915	23.0	940	8.0	5.4
	2110	22.2	965	7.9	4.5
	2315	20.8	970	7.8	4.4
79-09-19	0100	19.8	975	7.8	4.5
	0245	18.9	950	7.8	4.7
	0420	18.1	950	7.8	4.8
	0605	17.0	955	7.8	5.0
80-02-22	0740	6.5	1,010	7.7	7.1
	0910	7.0	1,020	7.8	7.8
	1045	8.0	1,010	7.8	8.6
	1230	10.0	1,020	7.9	8.8
	1425	10.5	1,020	7.9	8.5
	1615	10.0	1,030	7.8	7.8
	1750	10.0	1,040	7.7	7.5
	2000	9.5	1,080	7.8	6.3
	2155	9.0	1,040	7.7	6.2
	2335	8.5	1,060	7.7	6.3
80-02-23	0115	8.0	1,060	7.7	6.6
	0300	7.0	1,070	7.7	7.1
	0445	6.5	1,110	7.7	6.8
	0615	6.0	1,070	7.8	7.1

Table 12.--*River miles downstream from the Pueblo Wastewater Treatment Plant outfall for sites CS1-A through CS17-F*

Site no. on plate 1[1]	Station no.	River miles downstream from Pueblo Wastewater Treatment Plant outfall (site 18 on plate 1)
CS1-A to F	3815191043419 01-06	[2]-0.03
CS2-A to F	3815211043418 01-06	.02
CS3-A to F	3815241043414 01-06	.10
CS4-A to F	3815251043411 01-06	.14
CS5-A to F	3815261043409 01-06	.18
CS6-A to F	3815271043405 01-06	.24
CS6-1-A to F	3815291043401 01-06	.29
CS7-A to F	3815311043357 01-06	.42
CS8-A to F	3815351043346 01-06	.58
CS8-1-A to F	3815391043341 01-06	.74
CS9-A to F	3815401043335 01-06	.79
CS10-A to F	3815341043332 01-06	.97
CS11-A to F	3815301043329 01-06	1.2
CS11-1-A to F	3815331043314 01-06	1.4
CS12-A to F	3815361043314 01-06	1.5
CS18-A to F	3815471043308 11-16	1.7
CS13-1-A to F	3815501043252 01-06	1.9
CS14-A to F	3815521043246 01-06	2.0
CS15-A to F	3815551043225 01-06	2.3
CS15-1-A to F	3815551043213 01-06	2.6
CS16-A to F	3816011043203 01-06	2.8
CS16-1-A to F	3816061043144 01-06	3.1
CS17-A to F	3816011043130 11-16	3.5

[1]Six samples numbered A-F were collected at equal width intervals at each cross-section sampling site.

[2]Negative number for CS1 indicates upstream from outfall of Pueblo Wastewater Treatment Plant.

Table 13.--*Miscellaneous discharge measurements made in November and December 1979 and in March 1980*

[Site numbers on plate 1]

Date of measurement (Y-M-D)	Time	Discharge (ft^3/s)
Site CS-1 381519104341900 Arkansas River 0.03 mi upstream from Pueblo Wastewater Treatment Plant outfall		
79-11-15	0855	382
79-11-15	1405	356
79-11-16	0825	367
79-11-16	1425	369
79-12-13	0900	70
79-12-13	1340	81
79-12-14	0940	60
79-12-14	1305	70
80-03-10	0820	182
80-03-10	1345	159
80-03-11	0910	178
80-03-11	1340	166
Site 18 381522104342100 Pueblo Wastewater Treatment Plant outfall		
79-11-15	0925	26
79-11-15	1125	29
79-11-15	1335	26
79-11-16	0955	22
79-11-16	1140	27
79-11-16	1350	25
79-12-13	0925	24
79-12-13	1125	25
79-12-13	1230	26
79-12-14	1010	25
79-12-14	1240	26
79-12-14	1135	25
80-03-10	0910	29
80-03-10	1215	30
80-03-11	0950	27
80-03-11	1220	23

Table 13.--*Miscellaneous discharge measurements made in November and December 1979 and in March 1980*--Continued

Date of measurement (Y-M-D)	Time	Discharge (ft^3/s)
Site 19 381522104341800 CF&I Steel Corp. outfall (before February 1980)		
79-11-15	0950	102
79-11-15	1145	108
79-11-15	1310	109
79-11-16	0920	114
79-11-16	1110	114
79-11-16	1310	111
79-12-13	1000	104
79-12-13	1300	103
79-12-14	1040	104
79-12-14	1210	105
Site 20A 381530104333200 CF&I Steel Corp. outfall (after February 1980)		
80-03-10	1010	109
80-03-10	1305	110
80-03-11	1035	113
80-03-11	1305	116
Site CS-17 381601104313000 Arkansas River near 28th Lane		
79-11-15	1400	471
79-11-16	1545	470
79-12-13	1510	209
79-12-14	1345	203
80-03-10	1500	301
80-03-11	1450	295

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*

[Site numbers are shown on plate 1. Six samples numbered A through F were collected at approximate equal width intervals for selected cross-section sampling sites]

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS1-A 381519104341901				
99	8.2	2.34	79-11-15	0854	OC	<0.1
96	8.0	2.18	79-11-15	1454	OC	<.1
			79-11-16	0856	P	<.1
			79-11-16	1602	P	<.1
42	3.5	0.78	79-12-13	0850	OC	<0.1
42	3.5	.89	79-12-13	1445	OC	<.1
			79-12-14	0932	P	<.1
			79-12-14	1220	P	<.1
108	9.0	2.63	80-03-11	1029	P	<0.1
108	9.0	2.63	80-03-11	1518	P	<.1
		Site CS1-B 381519104341902				
99	25	1.80	79-11-15	0856	OC	<0.1
96	24	1.70	79-11-15	1455	OC	<.1
			79-11-16	0900	P	<.1
			79-11-16	1603	P	<.1
42	10	1.00	79-12-13	0853	OC	<0.1
42	10	1.05	79-12-13	1448	OC	<.1
			79-12-14	0933	P	<.1
			79-12-14	1220	P	<.1
108	27	1.61	80-03-11	1031	P	<0.1
108	27	1.61	80-03-11	1519	P	<.1
		Site CS1-C 381519104341903				
99	41	1.70	79-11-15	0858	OC	<0.1
96	40	1.90	79-11-15	1457	OC	<.1
			79-11-16	0903	P	<.1
			79-11-16	1605	P	<.1
42	18	0.68	79-12-13	0856	OC	<0.1
42	18	.70	79-12-13	1450	OC	<.1
			79-12-14	0934	P	<.1
			79-12-14	1222	P	<.1
108	45	0.65	80-03-11	1033	P	<0.1
108	45	.65	80-03-11	1520	P	<.1

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS1-D 381519104341904				
99	58	0.62	79-11-15	0900	OC	<0.1
96	56	.46	79-11-15	1458	OC	<.1
			79-11-16	0906	P	<.1
			79-11-16	1606	P	<.1
42	24	1.05	79-12-13	0859	OC	<0.1
42	24	1.10	79-12-13	1453	OC	<.1
			79-12-14	0935	P	<.1
			79-12-14	1224	P	<.1
108	63	0.53	80-03-11	1038	P	<0.1
108	63	.53	80-03-11	1521	P	<.1
		Site CS1-E 381519104341905				
99	74	0.68	79-11-15	0901	OC	<0.1
			79-11-15	1500	OC	<.1
			79-11-16	0908	P	<.1
			79-11-16	1607	P	<.1
42	31	1.40	79-12-13	0900	OC	<0.1
			79-12-13	1454	OC	<.1
			79-12-14	0936	P	<.1
			79-12-14	1226	P	<.1
108	81	0.47	80-03-11	1040	P	<0.1
108	81	.47	80-03-11	1522	P	<.1
		Site CS1-F 381519104341906				
99	90	0.19	79-11-15	0902	OC	<0.1
96	88	.30	79-11-15	1502	OC	<.1
			79-11-16	0911	P	<.1
			79-11-16	1609	P	<.1
42	38	0.55	79-12-13	0902	OC	<0.1
42	38	.60	79-12-13	1456	OC	<.1
			79-12-14	0936	P	<.1
			79-12-14	1227	P	<.1
108	99	0.11	80-03-11	1042	P	<0.1
108	99	.11	80-03-11	1523	P	<.1

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site 18 381522104342100				
22	Midstream	----	79-11-16	0930	P	192
			79-11-16	0945	P	184
			79-11-16	1000	P	178
			79-11-16	1015	P	162
			79-11-16	1030	P	165
			79-11-16	1045	P	166
			79-11-16	1100	P	178
			79-11-16	1115	P	177
22	1.0	----	79-11-16	1130	P	183
	5.0	0.78	79-11-16	1130	P	185
	9.0	1.00	79-11-16	1130	P	188
	13	1.40	79-11-16	1130	P	189
	17	1.64	79-11-16	1130	P	188
	21	1.70	79-11-16	1130	P	190
22	Midstream	----	79-11-16	1145	P	178
			79-11-16	1200	P	180
			79-11-16	1215	P	190
			79-11-16	1230	P	183
			79-11-16	1245	P	188
			79-11-16	1300	P	188
			79-11-16	1315	P	191
22	1.0	----	79-11-16	1330	P	182
	5.0	0.60	79-11-16	1330	P	178
	9.0	.93	79-11-16	1330	P	178
	13	1.38	79-11-16	1330	P	177
	17	1.58	79-11-16	1330	P	179
	21	1.72	79-11-16	1330	P	180
22	Midstream	----	79-11-16	1345	P	165
			79-11-16	1404	P	180
			79-11-16	1415	P	174
			79-11-16	1430	P	165
			79-11-16	1445	P	182
			79-11-16	1500	P	168
			79-11-16	1515	P	165
			79-11-16	1530	P	155
			79-11-16	1545	P	165
			79-11-16	1615	P	168
			79-11-16	1630	P	170

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site 18 381522104342100--Continued				
21	Midstream	----	79-12-14	1000	P	126
			79-12-14	1030	P	126, 120 bottom
21	1.8	----	79-12-14	1100	P	120
	5.2	----	79-12-14	1100	P	121
	8.8	----	79-12-14	1100	P	117
	12	----	79-12-14	1100	P	122
	16	----	79-12-14	1100	P	125
	19	----	79-12-14	1100	P	124
22	Midstream	----	79-12-14	1130	P	123
			79-12-14	1200	P	123
			79-12-14	1230	P	123
21	1.8	----	79-12-14	1300	P	123
	5.2	----	79-12-14	1300	P	121
	8.8	----	79-12-14	1300	P	111
	12	----	79-12-14	1300	P	111
			79-12-14	1300	P	119
	16	----	79-12-14	1300	P	120
	19	----	79-12-14	1330	P	121
	Midstream	----	79-12-14	1400	P	121, 122 bottom
24	Midstream	----	80-03-11	0945	P	122
			80-03-11	1025	P	122
24	2.0	----	80-03-11	1115	P	122
	6.0	----	80-03-11	1115	P	123
	10	----	80-03-11	1115	P	124
	14	----	80-03-11	1115	P	125
	18	----	80-03-11	1115	P	125
	22	----	80-03-11	1115	P	125
24	Midstream	----	80-03-11	1215	P	156
			80-03-11	1245	P	143, 144 bottom
			80-03-11	1325	P	138

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site 18 381522104342100--Continued				
24	2.0	----	80-03-11	1430	P	139
	6.0	----	80-03-11	1430	P	140
	10	----	80-03-11	1430	P	138
	14	----	80-03-11	1430	P	141, 141 bottom
	18	----	80-03-11	1430	P	138
	22	----	80-03-11	1430	P	139
	Midstream	----	80-03-11	1600	P	145
		Site CS2-A 381521104341801				
90	7.5	0.58	79-11-15	0920	OC	0.1
			79-11-16	0934	P	186
78	6.5	0.10	79-12-13	0915	OC	0.1
			79-12-14	0938	P	110
108	12	0.51	80-03-11	1112	P	128, 128 bottom
		Site CS2-B 381521104341802				
90	22	0.80	79-11-15	0923	OC	<0.1
			79-11-16	0939	P	128
78	20	0.10	79-12-13	0915	OC	0.1
			79-12-14	0938	P	110
100	28	0.85	80-03-11	1116	P	115
		Site CS2-C 381521104341803				
90	37	1.76	79-11-15	0926	OC	<0.1
			79-11-16	0941	P	<.1
78	32	1.25	79-12-13	0922	OC	0.1
			79-12-14	0941	P	107, 104 bottom
100	44	1.00	80-03-11	1119	P	0.4

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS2-D 381521104341804				
90	52	2.12	79-11-15	0928	OC	<0.1
			79-11-16	0948	P	<.1
78	45	1.15	79-12-13	0924	OC	<0.1
			79-12-14	0943	P	17.9
100	60	1.01	80-03-11	1121	P	<0.1
		Site CS2-E 381521104341805				
90	57	1.90	79-11-15	0930	OC	<0.1
			79-11-16	0948	P	<.1
78	58	1.07	79-12-13	0927	OC	<0.1
			79-12-14	0944	P	<.1
100	76	1.20	80-03-11	1124	P	<0.1
		Site CS2-F 381521104341806				
90	82	1.78	79-11-15	0932	OC	<0.1
			79-11-16	0950	P	<.1
78	72	0.98	79-12-13	0929	OC	<0.1
			79-12-14	0945	P	<.1
100	86	1.45	80-03-11	1127	P	<0.1
		Site CS3-A 381524104341401				
94	8.0	2.30	79-11-15	0942	OC	<0.1
			79-11-16	1026	P	79.0
90	7.5	1.68	79-12-13	0949	OC	0.1
			79-12-14	0954	P	108, 106 bottom
		Site CS3-B 381524104341402				
94	24	2.30	79-11-15	0945	OC	<0.1
			79-11-16	1030	P	11.5
90	22	0.56	79-12-13	0951	OC	<0.1
			79-12-14	0955	P	58.0, 55.0 bottom

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS3-C 381524104341403				
94	39	2.15	79-11-15	0947	OC	<0.1
			79-11-16	1032	P	.2
90	38	0.95	79-12-13	0954	OC	<0.1
			79-12-14	0957	P	13.8
		Site CS3-D 381524104341404				
94	55	1.58	79-11-15	0949	OC	<0.1
			79-11-16	1034	P	<.1
90	52	1.02	79-12-13	0957	OC	<0.1
			79-12-14	0959	P	.4
		Site CS3-E 381524104341405				
94	71	1.56	79-11-15	0951	OC	<0.1
			79-11-16	1037	P	<.1
90	68	0.78	79-12-13	1000	OC	<0.1
			79-12-14	1001	P	<.1
		Site CS3-F 381524104341406				
94	86	1.36	79-11-15	0952	OC	<0.1
			79-11-16	1039	P	<.1
90	82	0.72	79-12-13	1005	OC	<0.1
			79-12-14	1002	P	<.1
		Site 19 381522104341800				
37.5	Midstream	----	79-11-15	0837	OC	44.5
			79-11-15	0856	OC	50.0
			79-11-15	0930	OC	48.0
			79-11-15	1000	OC	49.0
			79-11-15	1030	OC	49.5
			79-11-15	1100	OC	49.0
			79-11-15	1130	OC	48.0

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site 19 381522104341800--Continued				
37.5	3.0	----	79-11-15	1200	OC	48.0
	9.0	----	79-11-15	1200	OC	48.0
	15	----	79-11-15	1200	OC	49.0
	21	----	79-11-15	1200	OC	48.0
	27	----	79-11-15	1200	OC	48.0
	33	----	79-11-15	1200	OC	48.0
	Midstream	----	79-11-15	1230	OC	48.0
			79-11-15	1300	OC	49.0
			79-11-15	1330	OC	49.0
37.5	3.0	----	79-11-15	1400	OC	48.0
	9.0	----	79-11-15	1400	OC	47.5
	15	----	79-11-15	1400	OC	48.0
	21	----	79-11-15	1400	OC	47.0
	27	----	79-11-15	1400	OC	48.5
	33	----	79-11-15	1400	OC	48.5
	Midstream	----	79-11-15	1430	OC	47.5
38.0	Midstream	----	79-11-16	0800	P	<0.1
			79-11-16	1400	P	<.1
41	3.0	----	79-12-13	0900	OC	32.0
	10	----	79-12-13	0900	OC	31.8
	17	----	79-12-13	0900	OC	31.0
	24	----	79-12-13	0900	OC	32.0
	31	----	79-12-13	0900	OC	31.9
	38	----	79-12-13	0900	OC	32.0
	Midstream	----	79-12-13	1000	OC	32.0
			79-12-13	1055	OC	31.8, 31.8 bottom
			79-12-13	1205	OC	32.0
			79-12-13	1300	OC	32.0
			79-12-13	1355	OC	32.0, 32.0 bottom

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site 19 381522104341800--Continued				
41	3.0	----	79-12-13	1500	OC	31.0
	10	----	79-12-13	1500	OC	31.0
	17	----	79-12-13	1500	OC	31.0
	24	----	79-12-13	1500	OC	31.0
	31	----	79-12-13	1500	OC	31.0
	38	----	79-12-13	1500	OC	31.0
	Midstream		79-12-14	0945	P	<0.1
			79-12-14	1345	P	<.1
		Site CS4-A 381525104341101				
104	8.6	0.48	79-11-15	1005	OC	<0.1
			79-11-16	1112	P	80.0
84	7.0	0.45	79-12-13	1020	OC	<0.1
			79-12-14	1008	P	103
		Site CS4-B 381525104341102				
104	26	1.06	79-11-15	1009	OC	<0.1
			79-11-16	1115	P	56.0
84	21	1.05	79-12-13	1023	OC	<0.1
			79-12-14	1009	P	73.0
		Site CS4-C 381525104341103				
104	43	1.68	79-11-15	1011	OC	<0.1
			79-11-16	1117	P	18.0
< 84	35	1.40	79-12-13	1028	OC	0.1
			79-12-14	1011	P	67.0
		Site CS4-D 381525104341104				
< 104	60	2.50	79-11-15	1013	OC	0.1
			79-11-16	1120	P	.4
84	49	1.96	79-12-13	1031	OC	27.5, 18.0 bottom
			79-12-14	1013	P	18.0, 22.0 bottom

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS4-E 381525104341105				
104	78	2.00	79-11-15	1016	OC	40.0
			79-11-16	1124	P	<.1
84	63	1.18	79-12-13	1035	OC	31.0
			79-12-14	1015	P	<.1
		Site CS4-F 381525104341106				
104	95	0.96	79-11-15	1018	OC	50.0
			79-11-16	1128	P	<.1
84	77	0.35	79-12-13	1039	OC	31.0
			79-12-14	1016	P	<.1
		Site CS5-A 381526104340901				
125	10	0.64	79-11-15	1031	OC	<0.1
			79-11-16	1153	P	75.0
102	8.5	0.38	79-12-13	1049	OC	<0.1
			79-12-14	1022	P	105
108	9.0	0.60	80-03-11	1217	P	88.0, 90.0 bottom
		Site CS5-B 381526104340902				
125	31	1.24	79-11-15	1033	OC	<0.1
			79-11-16	1158	P	50.0
102	26	0.60	79-12-13	1052	OC	<0.1
			79-12-14	1023	P	80.0, 80.0 bottom
108	27	1.00	80-03-11	1222	P	55.8
		Site CS5-C 381526104340903				
125	52	1.72	79-11-15	1035	OC	<0.1
			79-11-16	1201	P	19.5
102	42	1.12	79-12-13	1056	OC	<0.1
			79-12-14	1025	P	27.5, 32.5 bottom
108	45	1.25	80-03-11	1224	P	2.4

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS5-D 381526104340904				
125	73	2.38	79-11-15	1037	OC	<0.1
			79-11-16	1205	P	.2
102	60	1.75	79-12-13	1100	OC	----, 15.9 bottom
			79-12-14	1027	P	.9
108	63	1.10	80-03-11	1226	P	<0.1
		Site CS5-E 381526104340905				
125	94	1.50	79-11-15	1039	OC	29.0
			79-11-16	1207	P	----
102	76	0.92	79-12-13	1103	OC	30.0
			79-12-14	1028	P	<.1
108	81	1.00	80-03-11	1229	P	<0.1
		Site CS5-F 381526104340906				
125	114	1.10	79-11-15	1041	OC	50.0
			79-11-16	1210	P	<.1
102	94	0.55	79-12-13	1106	OC	30.0
			79-12-14	1029	P	<.1
108	99	0.70	80-03-11	1231	P	<0.1
		Site CS6-A 381527104340501				
92	7.6	0.30	79-11-15	1055	OC	<0.1
			79-11-16	1256	P	59.0
66	5.5	0.74	79-12-13	1143	OC	0.1
			79-12-14	1035	P	86.0
		Site CS6-B 381527104340502				
99	23	1.47	79-11-15	1058	OC	<0.1
			79-11-16	1300	P	56.0
66	16	1.66	79-12-13	1145	OC	0.1
			79-12-14	1037	P	62.0, 50.0 bottom

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS6-C 381527104340503				
99	38	2.55	79-15-79	1100	OC	<0.1
			79-11-16	1304	P	26.5
66	28	2.15	79-12-13	1147	OC	1.2
			79-12-14	1039	P	17.0, 19.0 bottom
		Site CS6-D 381527104340504				
92	54	3.10	79-11-15	1102	OC	1.5
			79-11-16	1307	P	9.1
66	38	2.35	79-12-13	1150	OC	11.0, 13.5 bottom
			79-12-14	1043	P	1.4
		Site CS6-E 381527104340505				
92	69	3.25	79-11-15	1112	OC	16.1
			79-11-16	1312	P	.6
66	50	2.48	79-12-13	1154	OC	24.0
			79-12-14	1045	P	.2
		Site CS6-F 381527104340506				
92	84	1.62	79-11-15	1106	OC	32.4
			79-11-16	1309	P	<.1
66	60	1.40	79-12-13	1157	OC	28.0
			79-12-14	1048	P	.15
		Site CS6-1-A 381529104340101				
93	7.8	0.58	79-11-15	1145	OC	0.82
			79-11-16	1355	P	60.0
78	6.5	0.65	79-12-13	1206	OC	<0.1
			79-12-14	1105	P	79.0
84	7.0	0.72	80-03-11	1301	P	78.0

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS6-1-B 381529104340102				
93	23	1.22	79-11-15	1147	OC	<0.1
			79-11-16	1359	P	35.0
78	20	0.70	79-12-13	1209	OC	0.4
			79-12-14	1106	P	60.0, 60.0 bottom
84	21	0.85	80-03-11	1304	P	57.5, 57.0 bottom
		Site CS6-1-C 381529104340103				
93	39	1.76	79-11-15	1149	OC	0.5
			79-11-16	1401	P	16.0
78	32	1.12	79-12-13	1210	OC	2.0
			79-12-14	1107	P	28.1, 24.5 bottom
84	35	1.10	80-03-11	1306	P	17.7
		Site CS6-1-D 381529104340104				
93	54	2.25	79-11-15	1150	OC	7.5
			79-11-16	1404	P	6.6
78	46	1.58	79-12-13	1212	OC	11.8, 11.6 bottom
			79-12-14	1108	P	8.5
84	49	1.48	80-03-11	1308	P	2.0
		Site CS6-1-E 381529104340105				
93	70	2.55	79-11-15	1151	OC	15.6
			79-11-16	1406	P	.6
78	58	1.86	79-12-13	1215	OC	20.0
			79-12-14	1109	P	.2
84	63	1.81	80-03-11	1310	P	<0.1

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS6-1-F 381529104340106				
93	85	1.65	79-11-15	1151	OC	15.6
			79-11-16	1408	P	<.1
78	72	1.25	79-12-13	1218	OC	27.0
			79-12-14	1110	P	<.1
84	77	0.98	80-03-11	1312	P	<0.1
		Site CS7-A 381531104335701				
121	10	0.38	79-11-15	1208	OC	4.0
			79-11-16	1420	P	18.0
108	9.0	0.10	79-12-13	1305	OC	12.5
			79-12-14	1121	P	19.5
108	9.0	0.15	80-03-11	1320	P	53.5
		Site CS7-B 381531104335702				
121	31	0.76	79-11-15	1210	OC	4.0
			79-11-16	1425	P	17.2
108	27	0.27	79-12-13	1307	OC	12.5
			79-12-14	1122	P	19.5
108	27	0.20	80-03-11	1324	P	54.5
		Site CS7-C 381531104335703				
121	51	1.10	79-11-15	1212	OC	5.7
			79-11-16	1428	P	16.0
108	45	0.80	79-12-13	1309	OC	12.5
			79-12-14	1123	P	20.0
108	45	0.70	80-03-11	1326	P	50.0, 51.5 bottom

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS7-D 381531104335704				
121	71	1.35	79-11-15	1213	OC	6.4
			79-11-16	1431	P	14.2
108	63	0.70	79-12-13	1321	OC	12.6
			79-12-14	1124	P	19.9
108	63	0.55	80-03-11	1330	P	11.9
		Site CS7-E 381531104335705				
121	91	2.06	79-11-15	1214	OC	18.7
			79-11-16	1435	P	12.8
108	81	1.94	79-12-13	1314	OC	13.5
			79-12-14	1126	P	18.0, 18.0 bottom
108	81	1.35	80-03-11	1330	P	11.9
		Site CS7-F 381531104335706				
121	112	3.15	79-11-15	1215	OC	16.5
			79-11-16	1438	P	5.1
108	99	2.25	79-12-13	1315	OC	20.0, 18.0 bottom
			79-12-14	1128	P	10.5, 11.0 bottom
108	99	1.62	80-03-11	1331	P	0.4
		Site CS8-A 381535104334601				
159	10	1.05	79-11-15	1235	OC	4.5
			79-11-16	1534	P	16.8
52	4.5	1.15	79-12-13	1340	OC	12.4
			79-12-14	1140	P	19.0
54	5.0	2.10	80-03-11	1411	P	51.0, 37.0 bottom

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS8-B 381535104334602				
159	61	0.57	79-11-15	1240	OC	4.8
			79-11-16	1540	P	16.2
52	14	2.48	79-12-13	1343	OC	13.6
			79-12-14	1141	P	19.0
54	14	2.00	80-03-11	1413	P	30.5, 30.0 bottom
		Site CS8-C 381535104334603				
159	82	1.58	79-11-15	1242	OC	5.2
			79-11-16	1542	P	15.6
52	22	2.65	79-12-13	1346	OC	15.8
			79-12-14	1143	P	14.0
54	23	2.60	80-03-11	1415	P	14.5
		Site CS8-D 381535104334604				
159	104	0.85	79-11-15	1243	OC	6.4
			79-11-16	1543	P	13.8
52	32	2.38	79-12-13	1348	OC	15.7
			79-12-14	1145	P	14.0, 14.0 bottom
54	32	2.00	80-03-11	1418	P	5.1
		Site CS8-E 381535104334605				
159	126	2.20	79-11-15	1245	OC	8.2
			79-11-16	1545	P	11.6
52	40	2.10	79-12-13	1350	OC	16.2
			79-12-14	1146	P	13.0, 12.8 bottom
54	41	1.15	80-03-11	1420	P	2.2

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS8-F 381535104334606				
159	147	2.88	79-11-15	1247	OC	15.6
			79-11-16	1548	P	6.0
52	50	1.40	79-12-13	1353	OC	17.5
			79-12-14	1147	P	11.5
54	50	1.91	80-03-11	1422	P	0.9
		Site CS8-1-A 381539104334101				
72	6.0	0.47	79-12-13	1405	OC	13.1
			79-12-14	1200	P	18.0
72	6.0	0.30	80-03-11	1432	P	43.9
		Site CS8-1-B 381539104334102				
72	18	0.90	79-12-13	1407	OC	14.0
			79-12-14	1201	P	17.0
72	18	1.00	80-03-11	1436	P	38.0, 38.2 bottom
		Site CS8-1-C 381539104334103				
72	30	1.50	79-12-13	1408	OC	15.0
			79-12-14	1202	P	15.5
72	30	1.50	80-03-11	1437	P	27.0
		Site CS8-1-D 381539104334104				
72	42	1.50	79-12-13	1410	OC	16.2
			79-12-14	1203	P	14.0
72	42	1.55	80-03-11	1438	P	13.5
		Site CS8-1-E 381539104334105				
72	54	1.45	79-12-13	1413	OC	16.5
			79-12-14	1204	P	13.8
72	54	1.40	80-03-11	1440	P	6.4

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS8-1-F 381539104334106				
72	66	1.28	79-12-13	1415	OC	16.8
			79-12-14	1206	P	13.0
72	66	1.40	80-03-11	1442	P	1.8
		Site CS9-A 381540104333501				
91	7.7	0.70	79-11-15	1316	OC	5.9
			79-11-16	1605	P	14.2
		Site CS9-B 381540104333502				
91	23.0	2.45	79-11-15	1318	OC	7.4
			79-11-16	1607	P	13.3
		Site CS9-C 381540104333503				
91	38.3	2.10	79-11-15	1320	OC	10.0
			79-11-16	1610	P	10.1
		Site CS9-D 381540104333504				
91	53.6	2.95	79-11-15	1322	OC	12.8
			79-11-16	1612	P	7.6
		Site CS9-E 381540104333505				
91	68.1	2.00	79-11-15	1324	OC	15.0
			79-11-16	1614	P	5.8
		Site CS9-F 381540104333506				
91	84.2	0.58	79-11-15	1325	OC	15.2
			79-11-16	1616	P	5.2
		Site CS10-A 381534104333201				
120	10	1.19	79-11-15	1334	OC	9.3
			79-11-16	0950	P	13.1
115	8.0	0.50	79-12-13	0955	OC	15.5
			79-12-14	1014	P	11.5
112	7.0	1.12	80-03-10	0930	NC	<0.1
			80-03-11	1538	P	25.0

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS10-B 381534104333202				
120	30	1.60	79-11-15	1345	OC	9.3
			79-11-16	0948	P	13.2
115	27	0.88	79-12-13	0957	OC	15.1
			79-12-14	1016	P	13.4, 13.5 bottom
112	26	1.22	80-03-10	0932	NC	<0.1
			80-03-11	1538	P	25.0
		Site CS10-C 381534104333203				
120	50	2.02	79-11-15	1346	OC	10.3
			79-11-16	0946	P	12.3
115	46	1.23	79-12-13	0959	OC	15.4
			79-12-14	1018	P	14.0
112	45	1.45	80-03-10	0934	NC	<0.1
			80-03-11	1534	P	18.5
		Site CS10-D 381534104333204				
120	70	2.12	79-11-15	1348	OC	10.4
			79-11-16	0944	P	10.9
115	65	1.51	79-12-13	1000	OC	15.6, 15.8 bottom
			79-12-14	1019	P	14.3
112	64	1.45	80-03-10	0936	NC	<0.1
			80-03-11	1532	P	17.5
		Site CS10-E 381534104333205				
120	88	1.91	79-11-15	1350	OC	11.2
			79-11-16	0942	P	9.6
115	84	1.80	79-12-13	1002	OC	15.9
			79-12-14	1021	P	14.2
112	83	0.60	80-03-10	0938	NC	<0.1
			80-03-11	1530	P	5.7

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS10-F 381534104333206				
120	110	1.30	79-11-15	1351	OC	12.8
			79-11-16	0940	P	8.9
115	103	0.56	79-12-13	1004	OC	16.4
			79-12-14	1022	P	12.0
112	102	0.50	80-03-10	0940	NC	<0.1
			80-03-11	1527	P	3.3
		Site 20A 381530104333200				
34	Midstream	----	80-03-10	0900	NC	30.0
	3.0	0.60	80-03-10	1000	NC	31.0
	8.0	2.00	80-03-10	1000	NC	31.0, 31.0 bottom
	13	1.20	80-03-10	1000	NC	30.5
	19	.92	80-03-10	1000	NC	30.5
	24	----	80-03-10	1000	NC	30.5
	30	----	80-03-10	1000	NC	30.5
	Midstream	----	80-03-10	1100	NC	31.0
			80-03-10	1200	NC	30.0
			80-03-10	1300	NC	----------
34	8.0	2.00	80-03-10	1300	NC	30.0
	13	1.20	80-03-10	1300	NC	29.5
	19	.92	80-03-10	1300	NC	30.0
	24	----	80-03-10	1300	NC	30.0
	30	----	80-03-10	1300	NC	30.0
34	Midstream	----	80-03-11	1400	P	<0.1

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS11-A 381530104332901				
98	10	0.13	79-11-15	1424	OC	9.6
			79-11-16	1108	P	13.0
80	8.0	0.23	79-12-13	1040	OC	14.8
			79-12-14	1040	P	----------
78	6.0	0.30	80-03-10	1008	NC	<0.1
			80-03-11	1551	P	23.8
		Site CS11-B 381530104332902				
98	26	0.93	79-11-15	1422	OC	9.8
			79-11-16	1106	P	12.8
80	21	1.00	79-12-13	1042	OC	14.9
			79-12-14	1039	P	----------
78	19	0.90	80-03-10	1006	NC	<0.1
			80-03-11	1553	P	24.0, 24.0 bottom
		Site CS11-C 381530104332903				
98	42	1.78	79-11-15	1420	OC	10.0
			79-11-16	1104	P	12.8
80	34	1.98	79-12-13	1044	OC	15.0, 15.0 bottom
			79-12-14	1038	P	----------
78	32	1.80	80-03-10	1005	NC	<0.1
			80-03-11	1554	P	22.0, 21.8 bottom
		Site CS11-D 381530104332904				
98	58	2.79	79-11-15	1418	OC	11.1
			79-11-16	1102	P	10.6
80	47	2.30	79-12-13	1046	OC	15.3
			79-12-14	1037	P	----------
78	45	2.50	80-03-10	1003	NC	2.0
			80-03-11	1556	P	14.0

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS11-E 381530104332905				
98	74	3.08	79-11-15	1416	OC	11.9
			79-11-16	1100	P	10.1
80	60	1.20	79-12-13	1048	OC	15.6
			79-12-14	1036	P	----------
78	58	2.50	80-03-10	1002	NC	20.0
			80-03-11	1558	P	6.4
		Site CS11-F 381530104332906				
98	90	3.00	79-11-15	1413	OC	11.6
			79-11-16	1058	P	9.4
80	73	1.00	79-12-13	1050	OC	14.7
			79-12-14	1035	P	----------
78	71	2.80	80-03-10	1000	NC	27.5
			80-03-11	1600	P	.1
		Site CS11-1-A 381533104331401				
90	7.5	2.00	80-03-10	1025	NC	1.5
			80-03-11	1125	P	18.3
		Site CS 11-1-B 381533104331402				
90	22	2.00	80-03-10	1027	NC	5.9
			80-03-11	1123	P	13.8
		Site CS11-1-C 381533104331403				
90	37	1.70	80-03-10	1028	NC	11.7
			80-03-11	1120	P	9.0, 8.6 bottom
		Site CS11-1-D 381533104331404				
90	52	1.40	80-03-10	1030	NC	18.0
			80-03-11	1118	P	5.5

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS11-1-E 381533104331405				
90	67	1.02	80-03-10	1032	NC	22.5, 22.0 bottom
			80-03-11	1116	P	3.2
		Site CS11-1-F 381533104331406				
90	82	0.30	80-03-10	1033	NC	23.0
			80-03-11	1115	P	3.0
		Site CS12-A 381536104331401				
110	9.0	2.25	79-11-15	1008	OC	<0.1
			79-11-16	1218	P	11.6
99	8.0	1.60	79-12-13	1120	OC	15.1
			79-12-14	1056	P	----------
103	8.0	2.01	80-03-10	1040	NC	3.3
			80-03-11	1150	P	16.2, 16.2 bottom
		Site CS12-B 381536104331402				
110	27	1.90	79-11-15	1011	OC	10.3
			79-11-16	1216	P	11.3
99	24	1.52	79-12-13	1122	OC	15.2
			79-12-14	1057	P	----------
103	25	1.80	80-03-10	1042	NC	6.3
			80-03-11	1153	P	13.5
		Site CS12-C 381536104331403				
110	45	2.10	79-11-15	1012	OC	11.0
			79-11-16	1212	P	11.0
99	40	1.47	79-12-13	1124	OC	15.3, 15.2 bottom
			79-12-14	1058	P	----------
103	42	1.79	80-03-10	1043	NC	10.0
			80-03-11	1156	P	10.3

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS12-D 381536104331404				
110	63	2.40	79-11-15	1013	OC	11.3
			79-11-16	1210	P	11.6
99	56	1.61	79-12-13	1126	OC	15.3
			79-12-14	1059	P	----------
103	59	2.02	80-03-10	1044	NC	15.6
			80-03-11	1158	P	7.2
		Site CS12-E 381536104331405				
110	81	1.60	79-11-15	1014	OC	11.3
			79-11-16	1208	P	9.8
99	72	1.10	79-12-13	1128	OC	15.3
			79-12-14	1100	P	----------
103	76	1.76	80-03-10	1045	NC	20.0, 20.5 bottom
			80-03-11	1204	P	3.1
		Site CS12-F 381536104331406				
110	99	0.80	79-11-15	1016	OC	11.3
			79-11-16	1206	P	9.2
99	88	0.38	79-12-13	1130	OC	15.0
			79-12-14	1101	P	----------
103	93	0.50	80-03-10	1050	NC	23.0
			80-03-11	1204	P	3.1
		Site CS13-A 381547104330811				
105	10	0.70	79-11-15	1046	OC	10.1
			79-11-16	1254	P	11.3
78	7.0	0.85	79-12-13	1225	OC	15.3
			79-12-14	1143	P	16.3
91	9.0	0.20	80-03-10	1105	NC	4.6
			80-03-11	1241	P	13.9

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS13-B 381547104330812				
105	28	1.80	79-11-15	1046	OC	10.1
			79-11-16	1254	P	11.3
78	20	2.00	79-12-13	1223	OC	15.1
			79-12-14	1142	P	16.4
91	24	1.67	80-03-10	1106	NC	4.9
			80-03-11	1237	P	15.0, 15.2 bottom
		Site CS13-C 381547104330813				
105	45	3.00	79-11-15	1043	OC	10.3
			79-11-16	1252	P	11.1
78	33	2.28	79-12-13	1221	OC	15.1
			79-12-14	1141	P	16.0, 15.9 bottom
91	39	2.60	80-03-10	1107	NC	6.0
			80-03-11	1234	P	13.9
		Site CS13-D 381547104330814				
105	62	2.73	79-11-15	1041	OC	11.0
			79-11-16	1250	P	10.4
78	46	1.70	79-12-13	1219	OC	15.3
			79-12-14	1140	P	15.7
91	54	2.50	80-03-10	1109	NC	13.0
			80-03-11	1231	P	14.2
		Site CS13-E 381547104330815				
105	80	1.70	79-11-15	1039	OC	11.3
			79-11-16	1248	P	10.0
78	59	1.37	79-12-13	1217	OC	15.2, 15.0 bottom
			79-12-14	1139	P	15.5
91	69	1.73	80-03-10	1110	NC	15.4, 16.4 bottom
			80-03-11	1228	P	7.3

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS13-F 381547104330816				
105	96	1.45	79-11-15	1037	OC	11.3
			79-11-16	1246	P	10.0
78	72	0.93	79-12-13	1215	OC	15.0
			79-12-14	1138	P	15.3
91	84	1.28	80-03-10	1112	NC	16.8
			80-03-11	1225	P	6.4
		Site CS13-1-A 381550104325201				
69	9.0	1.03	80-03-10	1132	NC	5.8
			80-03-11	1317	P	14.3
		Site CS13-1-B 381550104325202				
69	20	1.70	80-03-10	1131	NC	8.3
			80-03-11	1313	P	12.0
		Site CS13-1-C 381550104325203				
69	31	1.90	80-03-10	1129	NC	8.8
			80-03-11	1310	P	12.2, 12.0 bottom
		Site CS13-1-D 381550104325204				
69	42	2.48	80-03-10	1128	NC	9.0, 10.0 bottom
			80-03-11	1307	P	11.8
		Site CS13-1-E 381550104325205				
69	53	3.00	80-03-10	1127	NC	12.0
			80-03-11	1301	P	10.1
		Site CS13-1-F 381550104325206				
69	64	1.21	80-03-10	1125	NC	16.3
			80-03-11	1300	P	7.5

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS14-A 381552104324601				
120	10	1.72	79-11-15	1108	OC	10.2
			79-11-16	1330	P	11.0
85	7.0	1.00	79-12-13	1310	OC	15.2
			79-12-14	1155	P	16.0
110	9.0	1.30	80-03-10	1205	NC	----------
			80-03-11	1346	P	8.2
		Site CS14-B 381552104324602				
120	30	2.54	79-11-15	1111	OC	10.2
			79-11-16	1332	P	10.5
85	21	1.40	79-12-13	1308	OC	15.4
			79-12-14	1156	P	16.0
110	27	2.05	80-03-10	1207	NC	----------
			80-03-11	1333	P	11.9
		Site CS14-C 381552104324603				
120	50	2.63	79-11-15	1113	OC	10.6
			79-11-16	1334	P	10.8
85	35	1.82	79-12-13	1306	OC	15.2, 15.0 bottom
			79-12-14	1157	P	15.9
110	45	2.80	80-03-10	1208	NC	----------
			80-03-11	1337	P	10.6, 10.7 bottom
		Site CS14-D 381552104324604				
120	70	1.95	79-11-15	1114	OC	11.0
			79-11-16	1336	P	10.1
85	49	2.50	79-12-13	1304	OC	15.2
			79-12-14	1158	P	16.0, 16.0 bottom
110	63	1.61	80-03-10	1209	NC	----------
			80-03-11	1340	P	8.3

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS14-E 381552104324605				
120	90	1.16	79-11-15	1117	OC	10.9
			79-11-16	1338	P	10.1
85	63	1.12	79-12-13	1302	OC	15.0
			79-12-14	1159	P	15.5
110	81	0.40	80-03-10	1211	NC	----------
			80-03-11	1344	P	8.2
		Site CS14-F 381552104324606				
120	110	0.51	79-11-15	1118	OC	11.0
			79-11-16	1340	P	10.0
85	77	0.20	79-12-13	1300	OC	15.0
			79-12-14	1200	P	15.2
110	99	0.40	80-03-10	1212	NC	----------
			80-03-11	1346	P	8.2
		Site CS15-A 381555104322501				
100	8.0	0.49	79-11-15	1204	OC	9.9
			79-11-16	1420	P	10.8
82	7.0	0.70	79-12-13	1340	OC	15.1
			79-12-14	1220	P	15.6
85	7.0	0.47	80-03-10	1235	NC	----------
			80-03-11	1410	P	12.0
		Site CS15-B 381555104322502				
100	25	2.00	79-11-15	1206	OC	10.0
			79-11-16	1442	P	10.9
82	20	1.68	79-12-13	1340	OC	15.0
			79-12-14	1221	P	15.3, 15.0 bottom
85	21	2.00	80-03-10	1237	NC	----------
			80-03-11	1413	P	12.2, 12.0 bottom

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS15-C 381555104322503				
100	42	2.55	79-11-15	1208	OC	10.1
			79-11-16	1424	P	10.7
82	33	1.88	79-12-13	1344	OC	15.1
			79-12-14	1222	P	15.6
85	35	2.80	80-03-10	1238	NC	----------
			80-03-11	1416	P	11.5
		Site CS15-D 381555104322504				
100	58	2.95	79-11-15	1209	OC	10.4
			79-11-16	1426	P	10.2
82	45	3.00	79-12-13	1346	OC	15.2, 15.2 bottom
			79-12-14	1223	P	15.5
85	49	2.70	80-03-10	1239	NC	----------
			80-03-11	1419	P	9.8
		Site CS15-E 381555104322505				
100	74	2.00	79-11-15	1210	OC	10.5
			79-11-16	1428	P	10.0
82	58	0.40	79-12-13	1348	OC	15.0
			79-12-14	1224	P	15.3
85	63	0.70	80-03-10	1240	NC	----------
			80-03-11	1442	P	8.8
		Site CS15-F 381555104322506				
100	91	2.90	79-11-15	1211	OC	10.6
			79-11-16	1430	P	10.0
82	71	0.60	79-12-13	1350	OC	15.3
			79-12-14	1225	P	15.3
85	77	1.50	80-03-10	1241	NC	----------
			80-03-11	1426	P	8.6

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS15-1-A 381555104321301				
96	7.0	0.35	80-03-10	1300	NC	----------
			80-03-11	1453	P	11.7
		Site CS15-1-B 381555104321302				
96	22	1.20	80-03-10	1301	NC	----------
			80-03-11	1452	P	11.6
		Site CS15-1-C 381555104321303				
96	37	1.60	80-03-10	1302	NC	----------
			80-03-11	1449	P	11.2
		Site CS15-1-D 381555104321304				
96	52	2.30	80-03-10	1304	NC	----------
			80-03-11	1446	P	10.3, 10.2 bottom
		Site CS15-1-E 381555104321305				
96	67	1.50	80-03-10	1305	NC	----------
			80-03-11	1443	P	9.3
		Site CS15-1-F 381555104321306				
96	82	0.52	80-03-10	1307	NC	----------
			80-03-11	1440	P	9.3
		Site CS16-A 381601104320301				
83	7.0	2.08	79-11-15	1237	OC	10.0
			79-11-16	1500	P	10.2
64	5.0	1.42	79-12-13	1420	OC	15.1
			79-12-14	1244	P	15.5
70	5.0	1.70	80-03-10	1320	NC	----------
			80-03-11	1510	P	10.8

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS16-B 381601104320302				
83	21	3.60	79-11-15	1241	OC	10.1
			79-11-16	1502	P	10.2
64	15	1.70	79-12-13	1422	OC	15.0, 15.0 bottom
			79-12-14	1246	P	15.3
70	16	2.30	80-03-10	1322	NC	----------
			80-03-11	1513	P	11.0
		Site CS16-C 381601104320303				
83	35	2.70	79-11-15	1243	OC	10.3
			79-11-16	1504	P	9.9
64	25	1.90	79-12-13	1424	OC	15.3
			79-12-14	1247	P	15.2
70	27	2.10	80-03-10	1323	NC	----------
			80-03-11	1516	P	10.8, 10.8 bottom
		Site CS16-D 381601104320304				
83	49	3.37	79-11-15	1245	OC	10.3
			79-11-16	1506	P	9.9
64	35	1.70	79-12-13	1426	OC	15.1
			79-12-14	1248	P	15.3, 15.5 bottom
70	38	2.57	80-03-10	1324	NC	----------
			80-03-11	1518	P	10.5
		Site CS16-E 381601104320305				
83	63	1.23	79-11-15	1247	OC	10.3
			79-11-16	1508	P	9.9
64	45	1.95	79-12-13	1428	OC	15.1
			79-12-14	1250	P	15.2
70	49	2.70	80-03-10	1326	NC	----------
			80-03-11	1521	P	10.3

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS16-F 381601104320306				
83	77	0.62	79-11-15	1248	OC	10.5
			79-11-16	1510	P	10.0
70	55	1.98	79-12-13	1430	OC	15.2
			79-12-14	1251	P	15.0
70	60	1.03	80-03-10	1327	NC	----------
			80-03-11	1523	P	10.1
		Site CS16-1-A 381606104314401				
101	8.0	2.05	80-03-10	1340	NC	9.2, 9.2 bottom
			80-03-11	1545	P	10.8
		Site CS16-1-B 381606104314402				
101	25	1.80	80-03-10	1341	NC	10.1
			80-03-11	1548	P	10.8
		Site CS16-1-C 381606104314403				
101	42	1.10	80-03-10	1342	NC	10.5
			80-03-11	1551	P	10.7
		Site CS16-1-D 381606104314404				
101	59	1.79	80-03-10	1343	NC	10.5
			80-03-11	1553	P	10.6
		Site CS16-1-E 381606104314405				
101	76	1.75	80-03-10	1344	NC	10.6
			80-03-11	1556	P	10.6, 10.5 bottom
		Site CS16-1-F 381606104314406				
101	93	0.53	80-03-10	1345	NC	10.5
			80-03-11	1558	P	10.4

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS17-A 381601104313011				
125	15	2.00	79-11-15	1420	OC	10.1
			79-11-16	1554	P	10.0
87	10	1.10	79-12-13	1514	OC	15.0
			79-12-14	1327	P	15.0
122	10	1.63	80-03-10	1415	NC	10.1
			80-03-11	1622	P	10.8
		Site CS17-B 381601104313012				
125	35	2.90	79-11-15	1416	OC	10.2
			79-11-16	1552	P	10.0
87	24	1.40	79-12-13	1512	OC	15.0
			79-12-14	1325	P	15.2
122	32	1.80	80-03-10	1416	NC	10.4, 10.4 bottom
			80-03-11	1620	P	10.9
		Site CS17-C 381601104313013				
125	55	2.20	79-11-15	1405	OC	10.2
			79-11-16	1550	P	9.9
87	38	1.30	79-12-13	1510	OC	15.0, 15.0 bottom
			79-12-14	1324	P	15.2
122	52	1.82	80-03-10	1418	NC	10.3
			80-03-11	1619	P	10.8

Table 14.--*Channel-geometry and dye-concentration data collected in November and December 1979 and in March 1980*--Continued

Stream width (feet)	Sampling location in cross section (feet from left bank looking downstream)	Stream depth at sampling location (feet)	Date of dye sample (Y-M-D)	Time	Point of continuous dye injection[1]	Dye concentration[2] (micrograms per liter)
		Site CS17-D 381601104313014				
125	75	1.39	79-11-15	1400	OC	10.2
			79-11-16	1548	P	10.0
87	52	1.50	79-12-13	1508	OC	15.0
			79-12-14	1323	P	15.2, 15.3 bottom
122	72	1.30	80-03-10	1419	NC	10.7
			80-03-11	1618	P	10.5
		Site CS17-E 381601104313015				
125	95	0.64	79-11-15	1356	OC	10.2
			79-11-16	1546	P	9.9
87	66	1.10	79-12-13	1507	OC	15.0
			79-12-14	1322	P	15.3
122	92	0.21	80-03-10	1420	NC	10.6
			80-03-11	1616	P	10.6, 10.6 bottom
		Site CS17-F 381601104313016				
125	115	0.77	79-11-15	1349	OC	10.1
			79-11-16	1544	P	9.8
87	80	1.40	79-12-13	1505	OC	14.9
			79-12-14	1320	P	15.2
122	112	0.90	80-03-10	1422	NC	10.6
			80-03-11	1614	P	10.6

[1]OC=Site 19, CF&I Steel Corp. outfall before February 1980; P=Site 18, Pueblo Wastewater Treatment Plant outfall; NC=Site 20-A, CF&I Steel Corp. outfall after February 1980.

[2]Dye concentration determined from samples taken near the water surface, unless otherwise indicated.

(page 89 follows)

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*

Site numbers are shown on plate 1. Six samples numbered A-F were collected at approximate equal width intervals for selected cross-section sampling sites.

EXPLANATION OF HEADING INFORMATION

UNITS:

DEG C =DEGREES CELSIUS
MICROMHOS=MICROMHO PER CENTIMETER AT 25° CELSIUS
MG/L =MILLIGRAM PER LITER

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS1-A	381519104341901	79-11-16	0856	6.0	917	8.2	.97	.86	.11	.03	1.3	2.4
		79-11-16	1602	14.5	914	8.6	1.0	.91	.09	.12	1.4	2.5
		79-12-13	0850	.0	1640	8.2	.99	.81	.18	.04	3.3	4.3
		79-12-13	1445	3.0	1560	8.7	1.2	1.1	.10	.04	3.1	4.3
		80-03-11	1029	5.0	1300	8.0	.83	.51	.32	.03	3.9	4.8
		80-03-11	1518	12.0	1100	8.1	.66	.36	.30	.11	4.0	4.8
CS1-B	381519104341902	79-11-16	0900	6.5	896	8.2	.72	.57	.15	.03	1.2	2.0
		79-11-16	1603	11.0	840	8.6	.96	.84	.12	.12	1.3	2.4
		79-12-13	0853	.0	1520	8.1	.94	.77	.17	.04	3.2	4.1
		79-12-13	1448	3.0	1480	8.6	1.2	1.1	.11	.04	3.1	4.3
		80-03-11	1031	5.0	1200	8.1	.84	.57	.27	.06	3.3	4.2
		80-03-11	1519	11.5	1140	8.0	.70	.45	.25	.09	3.2	4.0
CS1-C	381519104341903	79-11-16	0903	6.5	895	8.2	.78	.67	.11	.03	1.2	2.1
		79-11-16	1605	11.0	845	8.4	1.3	1.2	.09	.12	1.3	2.7
		79-12-13	0856	.0	1630	8.1	.90	.71	.19	.04	3.3	4.2
		79-12-13	1450	2.5	1530	8.5	.26	.15	.11	.02	3.0	3.3
		80-03-11	1033	5.0	1080	8.1	.67	.45	.22	.05	2.5	3.2
		80-03-11	1520	11.0	1070	8.1	.81	.59	.22	.07	2.7	3.6
CS1-D	381519104341904	79-11-16	0906	6.5	847	8.2	.62	.54	.08	.06	1.1	1.8
		79-11-16	1606	14.5	833	8.6	.78	.71	.07	.10	1.2	2.1
		79-12-13	0859	.0	1520	8.1	.87	.70	.17	.04	3.2	4.1
		79-12-13	1453	2.5	1530	8.5	.29	.18	.11	.02	3.1	3.4
		80-03-11	1038	5.0	1050	8.1	.62	.39	.23	.05	2.4	3.0
		80-03-11	1521	11.0	1060	8.1	.60	.37	.23	.07	2.6	3.3
CS1-E	381519104341905	79-11-16	0908	6.5	815	8.3	.64	.57	.07	.06	1.1	1.8
		79-11-16	1607	14.5	833	8.6	.63	.56	.07	.10	1.1	1.8
		79-12-13	0900	.0	1560	8.1	1.0	.84	.16	.04	3.1	4.1
		79-12-13	1454	3.0	1520	8.4	1.1	.98	.12	.04	3.1	4.2
		80-03-11	1040	6.0	1050	8.2	.60	.38	.22	.05	2.3	2.9
		80-03-11	1522	11.0	1050	8.1	1.4	1.2	.22	.06	2.5	4.0
CS1-F	381519104341906	79-11-16	0911	7.0	727	8.3	.68	.61	.07	.06	1.0	1.8
		79-11-16	1609	14.5	820	8.6	.80	.74	.06	.14	1.1	2.0
		79-12-13	0902	.5	1590	8.1	.82	.65	.17	.04	3.2	4.0
		79-12-13	1456	3.0	1560	8.4	1.3	1.2	.13	.04	3.1	4.4

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS1-F	381519104341906	80-03-11	1042	7.0	1010	8.3	.37	.15	.22	.05	2.3	2.7
		80-03-11	1523	11.0	1050	8.2	2.1	1.9	.22	.06	2.5	4.7
18	381522104342100	79-11-16	0832	16.0	1650	7.6	49	30	19	.26	.16	49
		79-11-16	0930	16.0	1670	7.8	--	--	19	.14	.00	--
		79-11-16	1030	16.0	1690	7.8	--	--	19	.23	.00	--
		79-11-16	1130	17.5	1720	7.8	--	--	18	.32	.00	--
		79-11-16	1230	18.0	1780	7.8	--	--	20	.19	.00	--
		79-11-16	1330	18.5	1820	7.8	--	--	22	.04	.00	--
		79-11-16	1430	19.0	1880	7.8	--	--	22	.04	.00	--
		79-11-16	1530	19.0	1840	7.8	--	--	22	.19	.00	--
		79-12-13	0935	12.5	1900	7.6	29	7.0	22	.19	.44	30
		79-12-13	1100	13.5	1920	7.8	25	8.0	17	.09	.30	25
		79-12-13	1240	14.0	1820	7.7	27	10	17	.09	.32	27
		79-12-13	1400	14.5	1920	7.8	29	10	19	.13	.49	30
		79-12-13	1510	14.5	1850	7.8	26	8.0	18	.13	.40	27
		80-03-11	0900	13.0	1800	7.5	27	6.0	21	.12	.37	27
		80-03-11	1030	12.0	1600	7.5	28	10	18	.12	.32	28
		80-03-11	1225	13.5	1700	7.4	27	5.0	22	.15	.34	27
		80-03-11	1330	15.5	1850	7.5	36	11	25	.17	.36	37
		80-03-11	1450	15.5	1850	7.5	37	14	23	.17	.30	37
CS2-A	381521104341801	79-11-16	0934	16.0	1800	7.6	--	--	19	.21	.11	--
		79-12-13	0915	12.5	1890	7.8	30	14	16	.13	.25	30
		80-03-11	1112	12.5	1770	7.6	30	9.0	21	.15	.33	30
CS2-B	381521104341802	79-11-16	0939	14.0	1430	7.8	--	--	12	.19	.62	--
		79-12-13	0919	12.5	1890	7.8	26	9.0	17	.10	.30	26
		80-03-11	1116	11.5	1700	7.7	23	7.0	16	.13	1.3	24
CS2-C	381521104341803	79-11-16	0941	7.0	929	8.2	.92	.70	.22	.08	1.3	2.3
		79-12-13	0922	12.0	1850	7.8	27	12	15	.10	.56	28
		80-03-11	1119	11.0	1280	8.3	1.2	.85	.35	.03	3.6	4.9
CS2-D	381521104341804	79-11-16	0945	7.0	896	8.3	.91	.75	.16	.03	1.3	2.3
		79-12-13	0924	.5	1610	8.1	1.4	1.2	.22	.03	3.3	4.7
		80-03-11	1121	9.5	1200	8.2	.58	.31	.27	.07	3.3	4.0
CS2-E	381521104341805	79-11-16	0948	7.0	918	8.3	.74	.62	.12	.08	1.3	2.1

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS2-E	381521104341805	79-12-13	0927	.0	1600	8.1	1.2	1.0	.20	.03	3.4	4.6
		80-03-11	1124	6.0	1130	8.5	.68	.43	.25	.06	2.8	3.6
CS2-F	381521104341806	79-11-16	0950	7.0	857	8.3	.66	.57	.09	.06	1.2	2.0
		79-12-13	0929	.5	1620	8.1	1.2	1.0	.19	.03	3.4	4.6
		80-03-11	1127	6.5	1070	8.5	.57	.30	.27	.05	2.4	3.0
CS3-A	381524104341401	79-11-16	1026	11.5	1330	7.9	--	--	3.6	.14	.86	--
		79-12-13	0949	10.0	1880	7.9	21	6.0	15	.09	.66	22
CS3-B	381524104341402	79-11-16	1030	3.0	1050	8.2	1.9	.70	1.2	.14	1.3	3.3
		79-12-13	0951	4.0	1700	8.0	10	3.0	7.0	.05	2.2	12
CS3-C	381524104341403	79-11-16	1032	8.0	975	8.3	.91	.73	.18	.03	1.4	2.4
		79-12-13	0954	1.0	1600	8.1	2.4	1.2	1.2	.03	3.1	5.5
CS3-D	381524104341404	79-11-16	1034	3.0	955	8.3	.90	.74	.16	.06	1.4	2.4
		79-12-13	0957	.5	1590	8.2	.99	.84	.15	.03	3.3	4.3
CS3-E	381524104341405	79-11-16	1037	8.0	914	8.3	.98	.87	.11	.06	1.3	2.4
		79-12-13	1000	.0	1580	8.1	.93	.79	.14	.02	3.3	4.2
CS3-F	381524104341406	79-11-16	1039	8.0	889	8.3	.92	.82	.10	.06	1.2	2.2
		79-12-13	1005	.0	1580	8.2	1.2	1.1	.13	.02	3.2	4.4
19	381522104341800	79-11-16	0800	16.0	670	8.5	1.5	.59	.91	.25	1.1	2.8
		79-11-16	1100	16.5	670	8.5	1.4	.50	.90	.23	.97	2.6
		79-11-16	1400	17.0	670	8.5	1.1	.13	.97	.23	.97	2.3
		79-12-13	0910	12.5	630	8.4	1.5	.71	.79	.08	.73	2.3
		79-12-13	1205	13.0	640	8.4	1.5	.68	.82	.03	.75	2.3
		79-12-13	1500	13.5	630	8.4	1.9	.90	1.0	.03	.72	2.7
CS4-A	381525104341101	79-11-16	1112	12.0	1310	7.9	--	--	8.3	.13	.82	--
		79-12-13	1020	10.0	1820	7.9	21	4.0	17	.12	.65	22
CS4-B	381525104341102	79-11-16	1115	11.0	1200	8.0	--	--	6.2	.14	.96	--
		79-12-13	1023	9.5	1750	7.9	15	4.0	11	.07	1.4	17
CS4-C	381525104341103	79-11-16	1117	9.5	1010	8.2	3.0	.70	2.3	.14	1.3	4.4

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS4-C	381525104341103	79-12-13	1028	2.0	1580	8.1	3.4	1.4	2.0	.04	2.8	6.2
CS4-D	381525104341104	79-11-16	1120	8.5	913	8.3	.91	.73	.18	.10	1.3	2.3
		79-12-13	1031	11.0	785	8.5	1.4	.78	.62	.06	1.1	2.6
CS4-E	381525104341105	79-11-16	1124	15.5	719	8.3	1.2	.41	.79	.19	1.0	2.4
		79-12-13	1035	12.5	630	8.5	1.4	.68	.72	.06	.76	2.2
CS4-F	381525104341106	79-11-16	1128	17.0	695	8.3	1.3	.38	.92	.21	.99	2.5
		79-12-13	1039	12.5	625	8.5	1.4	.71	.69	.07	.76	2.2
CS5-A	381526104340901	79-11-16	1153	--	1290	7.9	--	--	8.4	.19	.81	--
		79-12-13	1049	14.0	1830	8.0	22	8.0	14	.11	.63	23
		80-03-11	1217	11.0	1620	7.7	21	6.0	15	.14	1.5	23
CS5-B	381526104340902	79-11-16	1158	--	1170	8.0	--	--	5.7	.18	1.0	--
		79-12-13	1052	6.0	1740	7.9	23	13	14	.08	1.2	24
		80-03-11	1222	9.0	1490	8.1	7.9	.00	8.1	.11	2.6	11
CS5-C	381526104340903	79-11-16	1201	--	998	8.2	3.3	1.0	2.3	.16	1.2	4.7
		79-12-13	1056	3.0	1620	8.1	9.6	3.7	5.9	.05	2.2	12
		80-03-11	1224	7.5	1180	8.3	.77	.14	.63	.11	3.4	4.3
CS5-D	381526104340904	79-11-16	1205	--	886	8.3	.73	.58	.15	.10	1.3	2.1
		79-12-13	1100	8.0	1030	8.4	1.2	.63	.57	.06	1.7	3.0
		80-03-11	1226	7.5	1150	8.3	.59	.33	.26	.09	3.1	3.8
CS5-E	381526104340905	79-11-15	1207	--	736	8.3	1.4	.62	.78	.18	1.0	2.6
		79-12-13	1103	12.5	660	8.5	1.2	.38	.82	.07	.74	2.0
		80-03-11	1229	7.5	1070	8.4	.73	.51	.22	.08	2.6	3.4
CS5-F	381526104340906	79-11-16	1214	--	684	8.3	1.5	.50	1.0	.21	.99	2.7
		79-12-13	1106	12.5	630	8.5	1.4	.60	.80	.07	.73	2.2
		80-03-11	1231	8.0	1010	8.5	.57	.34	.23	.07	2.3	3.0
CS6-A	381527104340501	79-11-16	1256	12.0	1230	8.0	--	--	7.2	.19	.91	--
		79-12-13	1143	9.0	1710	7.9	24	12	12	.12	1.1	25
CS6-B	381527104340502	79-11-16	1300	11.5	1190	8.0	--	--	6.9	.21	.99	--

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS6-B	381527104340502	79-12-13	1145	6.5	1680	7.9	16	6.0	10	.72	.78	18
CS6-C	381527104340503	79-11-16	1304	10.5	1100	8.1	--	--	4.9	.19	1.1	--
		79-12-13	1147	5.0	1530	8.0	8.8	3.8	5.0	.07	2.1	11
CS6-D	381527104340504	79-11-16	1307	14.0	934	8.2	2.2	.70	1.5	.18	1.2	3.6
		79-12-13	1150	7.0	1150	8.2	1.8	.89	.91	.06	1.8	3.7
CS6-E	381527104340505	79-11-16	1312	12.0	809	8.3	.55	.14	.41	.18	1.1	1.9
		79-12-13	1154	10.5	815	8.4	1.7	.75	.95	.08	1.1	2.9
CS6-F	381527104340506	79-11-16	1309	14.0	733	8.3	.75	.04	.71	.18	1.0	2.0
		79-12-13	1157	12.0	715	8.4	1.9	.93	.97	.03	.90	2.9
CS6-1-A	381529104340101	79-11-16	1355	12.0	1200	8.0	--	--	7.5	.25	.95	--
		79-12-13	1206	9.0	1720	7.9	15	4.0	11	.11	1.3	16
		80-03-11	1301	11.5	1580	7.9	21	8.0	13	.14	1.8	23
CS6-1-B	381529104340102	79-11-16	1359	11.0	1060	8.1	6.8	2.2	4.6	.19	1.1	8.1
		79-12-13	1209	7.5	1740	8.0	13	3.5	9.5	.09	1.6	15
		80-03-11	1304	11.0	1480	8.1	14	4.0	10	.12	2.4	17
CS6-1-C	381529104340103	79-11-16	1401	14.5	967	8.2	3.3	1.3	2.0	.19	1.2	4.7
		79-12-13	1210	5.0	1550	8.1	7.9	2.3	5.6	.07	2.0	10
		80-03-11	1306	9.5	1330	8.3	3.6	.60	3.0	.09	3.1	6.8
CS6-1-D	381529104340104	79-11-16	1404	11.0	875	8.3	1.9	.95	.95	.18	1.2	3.3
		79-12-13	1212	6.0	1230	8.3	2.9	1.6	1.3	.05	2.0	4.9
		80-03-11	1308	9.0	1190	8.4	1.1	.57	.53	.09	3.1	4.3
CS6-1-E	381529104340105	79-11-16	1406	12.0	821	8.4	1.3	.78	.52	.16	1.1	2.6
		79-12-13	1215	9.5	915	8.4	3.3	2.4	.88	.05	1.4	4.7
		80-03-11	1310	9.0	1100	8.5	.61	.39	.22	.07	2.7	3.4
CS6-1-F	381529104340106	79-11-16	1408	13.0	778	8.4	1.7	1.2	.55	.19	1.1	3.0
		79-12-13	1218	11.5	750	8.4	1.9	1.0	.89	.06	1.0	3.0
		80-03-11	1312	9.0	1060	8.5	.46	.26	.20	.07	2.4	3.0
CS7-A	381531104335701	79-11-16	1420	11.5	966	8.2	3.5	1.2	2.3	.21	1.2	4.9

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS7-A	381531104335701	79-12-13	1305	3.0	1240	8.2	5.6	1.7	3.9	.10	1.7	7.4
		80-03-11	1320	11.0	1550	7.8	15	5.0	10	.11	2.4	18
CS7-B	381531104335702	79-11-16	1425	11.0	954	8.2	3.5	1.4	2.1	.21	1.2	4.9
		79-12-13	1307	3.0	1250	8.2	5.4	2.1	3.3	.09	1.7	7.2
		80-03-11	1324	11.0	1550	8.0	14	4.0	10	.12	2.5	17
CS7-C	381531104335703	79-11-16	1428	11.5	920	8.3	3.1	1.1	2.0	.25	1.2	4.5
		79-12-13	1309	3.0	1230	8.2	5.4	1.8	3.6	.09	1.7	7.2
		80-03-11	1326	11.0	1550	8.1	13	3.8	9.2	.11	2.5	16
CS7-D	381531104335704	79-11-16	1431	11.5	919	8.3	6.4	4.7	1.7	.21	1.2	7.8
		79-12-13	1312	3.0	1250	8.2	5.9	2.1	3.8	.09	1.7	7.7
		80-03-11	1328	10.5	1430	8.1	13	6.5	6.5	.14	2.8	16
CS7-E	381531104335705	79-11-16	1435	11.5	950	8.3	2.5	1.0	1.5	.19	1.2	3.9
		79-12-13	1314	3.5	1240	8.2	5.0	1.3	3.7	.09	1.6	6.7
		80-03-11	1330	9.5	1250	8.3	10	8.3	1.7	.09	3.0	13
CS7-F	381531104335706	79-11-16	1438	12.0	890	8.3	1.8	.86	.94	.19	1.1	3.1
		79-12-13	1315	10.0	980	8.3	3.1	1.5	1.6	.03	1.3	4.5
		80-03-11	1331	9.5	1120	8.4	3.5	3.3	.18	.07	2.7	6.3
CS8-A	381535104334601	79-11-16	1534	11.5	985	8.3	3.3	1.2	2.1	.19	1.2	4.7
		79-12-13	1340	3.5	1240	8.2	8.3	4.9	3.4	.14	1.7	10
		80-03-11	1411	12.0	1490	8.0	16	6.9	9.1	.12	2.6	19
CS8-B	381535104334602	79-11-16	1540	11.5	950	8.3	3.3	1.2	2.1	.23	1.2	4.7
		79-12-13	1343	3.5	1210	8.1	4.9	1.5	3.4	.09	1.6	6.6
		80-03-11	1413	11.0	1310	8.0	14	8.2	5.8	.14	2.8	17
CS8-C	381535104334603	79-11-16	1542	11.5	947	8.3	3.3	1.3	2.0	.23	1.2	4.7
		79-12-13	1346	9.0	1120	8.1	4.6	1.9	2.7	.09	1.5	6.2
		80-03-11	1415	10.5	1200	8.2	8.4	6.6	1.8	.09	2.9	11
CS8-D	381535104334604	79-11-16	1543	11.5	900	8.3	3.2	1.4	1.8	.23	1.2	4.6
		79-12-13	1348	9.0	1140	8.1	4.5	1.8	2.7	.09	1.5	6.1
		80-03-11	1418	10.5	1150	8.3	--	--	--	.08	2.8	--
CS8-E	381535104334605	79-11-16	1545	11.5	918	8.3	2.6	1.0	1.6	.19	1.2	4.0

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS8-E	381535104334605	79-12-13	1350	9.0	1130	8.1	4.4	1.8	2.6	.08	1.4	5.9
		80-03-11	1420	14.5	1110	8.4	1.9	1.1	.78	.06	2.5	4.5
CS8-F	381535104334606	79-11-16	1548	12.0	849	8.3	1.8	.80	1.0	.21	1.2	3.2
		79-12-13	1353	9.5	1090	8.2	4.2	1.9	2.3	.09	1.4	5.7
		80-03-11	1422	14.5	1090	8.5	2.3	1.9	.37	.07	2.7	5.1
CS8-1-A	381539104334101	79-12-13	1405	3.5	1220	8.6	6.6	3.1	3.5	.14	1.6	8.3
		80-03-11	1432	12.0	1430	8.1	16	7.8	8.2	.12	2.7	19
CS8-1-B	381539104334102	79-12-13	1407	8.5	1200	8.2	5.0	1.5	3.5	.14	1.6	6.7
		80-03-11	1436	11.5	1400	8.1	12	4.5	7.5	.11	2.7	15
CS8-1-C	381539104334103	79-12-13	1408	9.0	1150	8.2	4.6	1.7	2.9	.09	1.5	6.2
		80-03-11	1437	11.0	1310	8.2	14	8.3	5.7	.14	2.8	17
CS8-1-D	381539104334104	79-12-13	1410	9.0	1140	8.2	4.4	1.8	2.6	.10	1.5	6.0
		80-03-11	1438	10.5	1200	8.2	9.3	7.1	2.2	.10	2.9	12
CS8-1-E	381539104334105	79-12-13	1413	9.0	1120	8.2	4.8	2.3	2.5	.09	1.5	6.4
		80-03-11	1440	10.5	1150	8.4	2.8	1.6	1.2	.09	2.9	5.8
CS8-1-F	381539104334106	79-12-13	1415	9.0	1110	8.2	3.8	1.4	2.4	.09	1.5	5.4
		80-03-11	1442	14.5	1100	8.4	2.8	2.3	.47	.09	2.8	5.7
CS9-A	381540104333501	79-11-16	1605	11.5	900	8.3	3.0	1.2	1.8	.21	1.2	4.4
CS9-B	381540104333502	79-11-16	1607	11.5	960	8.3	2.9	1.2	1.7	.23	1.2	4.3
CS9-C	381540104333503	79-11-16	1610	11.5	945	8.3	2.4	1.0	1.4	.25	1.2	3.8
CS9-D	381540104333504	79-11-16	1612	12.0	915	8.4	1.9	.70	1.2	.21	1.2	3.3
CS9-E	381540104333505	79-11-16	1614	12.0	854	8.4	1.7	.70	1.0	.21	1.2	3.1
CS9-F	381540104333506	79-11-16	1616	12.0	849	8.4	1.9	.96	.94	.23	1.2	3.3
CS10-A	381534104333201	79-11-16	0950	9.0	900	7.8	.10	.00	1.4	.16	1.1	1.4
		79-12-13	0955	6.0	1130	8.3	4.1	1.6	2.5	.08	1.6	5.8

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS10-A	381534104333201	80-03-11	1538	11.5	1350	8.2	8.4	3.0	5.4	.11	2.9	11
CS10-B	381534104333202	79-11-16	0948	9.0	887	7.9	2.3	.90	1.4	.18	1.1	3.6
		79-12-13	0957	6.0	1140	8.3	4.2	1.6	2.6	.69	.91	5.8
		80-03-11	1536	11.5	1300	8.3	8.9	4.0	4.9	.12	2.9	12
CS10-C	381534104333203	79-11-16	0946	9.0	883	7.9	2.1	.80	1.3	.18	1.1	3.4
		79-12-13	0959	6.0	1140	8.2	4.4	1.9	2.5	.03	1.6	6.1
		80-03-11	1534	11.0	1300	8.4	7.6	3.4	4.2	.11	3.0	11
CS10-D	381534104333204	79-11-16	0944	9.0	876	7.9	1.9	.70	1.2	.16	1.1	3.2
		79-12-13	1000	6.0	1130	8.3	4.3	1.7	2.6	.03	1.5	5.9
		80-03-11	1532	11.0	1300	8.2	6.7	3.8	2.9	.11	3.0	9.8
CS10-E	381534104333205	79-11-16	0942	9.0	869	7.9	1.9	.80	1.1	.13	1.1	3.2
		79-12-13	1002	6.0	1120	8.3	4.3	1.9	2.4	.03	1.5	5.9
		80-03-11	1530	11.0	1200	8.2	2.8	1.7	1.1	.10	2.9	5.8
CS10-F	381534104333206	79-11-16	0940	9.0	858	7.9	1.8	.70	1.1	.16	1.1	3.1
		79-12-13	1004	6.5	1090	8.4	3.9	1.6	2.3	.07	1.5	5.5
		80-03-11	1527	11.0	1180	8.4	2.7	2.0	.71	.10	2.9	5.7
20A	381530104333200	80-03-11	1105	12.0	600	8.0	3.2	2.2	1.0	.18	.60	4.0
		80-03-11	1405	13.0	600	8.0	7.2	6.5	.75	.17	.62	8.0
CS11-A	381530104332901	79-11-16	1108	10.0	925	8.0	2.9	1.4	1.5	.19	1.2	4.3
		79-12-13	1040	6.5	1130	8.4	4.2	1.7	2.5	.09	1.6	5.9
		80-03-11	1551	11.0	1310	8.2	9.8	4.7	5.1	.12	2.9	13
CS11-B	381530104332902	79-11-16	1106	9.5	905	8.0	2.4	.90	1.5	.19	1.2	3.8
		79-12-13	1042	6.0	1130	8.3	4.3	1.7	2.6	.08	1.6	6.0
		80-03-11	1553	11.5	1350	8.2	7.3	2.1	5.2	.12	3.0	10
CS11-C	381530104332903	79-11-16	1104	9.5	925	8.0	2.3	.80	1.5	.19	1.2	3.7
		79-12-13	1044	6.0	1200	8.3	4.4	1.8	2.6	.08	1.6	6.1
		80-03-11	1554	11.5	1350	8.2	8.1	3.1	5.0	.12	3.0	11
CS11-D	381530104332904	79-11-16	1102	9.5	905	8.1	2.5	1.1	1.4	.19	1.2	3.9
		79-12-13	1046	6.0	1170	8.3	4.1	1.5	2.6	.08	1.5	5.7

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS11-D	381530104332904	80-03-11	1556	11.5	1180	8.3	4.5	2.1	2.4	.12	2.6	7.2
CS11-E	381530104332905	79-11-16	1104	9.5	905	8.1	2.7	1.4	1.3	.13	1.2	4.1
		79-12-13	1048	6.0	1120	8.3	4.0	1.5	2.5	.08	1.5	5.6
		80-03-11	1558	12.0	875	8.3	2.6	1.4	1.2	.15	1.5	4.2
CS11-F	381530104332906	79-11-16	1058	9.5	890	8.1	2.3	1.1	1.2	.16	1.1	3.6
		79-12-13	1050	6.0	1120	8.3	3.8	1.5	2.3	.07	1.4	5.3
		80-03-11	1600	12.5	675	8.3	1.6	.75	.85	.17	.76	2.5
CS11-1-A	381533104331401	80-03-11	1125	8.0	1220	8.0	7.3	3.0	4.3	.08	2.6	10
CS11-1-B	381533104331402	80-03-11	1123	8.5	1120	8.0	4.9	2.2	2.7	.09	2.4	7.4
CS11-1-C	381533104331403	80-03-11	1120	10.0	1010	8.1	3.4	1.7	1.7	.10	1.7	5.2
CS11-1-D	381533104331404	80-03-11	1118	11.0	853	8.1	2.6	1.2	1.4	.14	1.5	4.2
CS11-1-E	381533104331405	80-03-11	1116	11.0	778	7.9	2.1	1.0	1.1	.15	1.3	3.5
CS11-1-F	381533104331406	80-03-11	1115	11.5	839	7.9	2.0	.90	1.1	.15	1.3	3.4
CS12-A	381536104331401	79-11-16	1218	10.5	925	8.0	2.3	1.0	1.3	.13	1.2	3.7
		79-12-13	1120	6.5	1130	8.3	4.0	1.5	2.5	.08	1.5	5.6
		80-03-11	1150	8.0	1200	8.0	6.0	3.1	2.9	.09	2.6	8.7
CS12-B	381536104331402	79-11-16	1216	10.5	925	8.0	2.5	1.2	1.3	.13	1.1	3.8
		79-12-13	1122	6.5	1120	8.2	4.3	1.8	2.5	.08	1.5	5.9
		80-03-11	1153	8.5	1180	8.1	4.7	2.1	2.6	.10	2.4	7.2
CS12-C	381536104331403	79-11-16	1212	10.5	900	8.0	--	--	1.3	.19	1.2	--
		79-12-13	1124	6.5	1120	8.3	4.0	1.6	2.4	.08	1.5	5.6
		80-03-11	1156	9.5	1000	8.1	3.2	1.2	2.0	.11	2.0	5.3
CS12-D	381536104331404	79-11-16	1210	10.5	900	8.0	2.3	1.1	1.2	.19	1.2	3.7
		79-12-13	1126	6.5	1120	8.3	3.8	1.4	2.4	.03	1.5	5.4
		80-03-11	1158	9.5	900	8.1	2.9	1.4	1.5	.12	1.7	4.7
CS12-E	381536104331405	79-11-16	1208	10.5	900	8.0	1.8	.60	1.2	.19	1.2	3.2

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS12-E	381536104331405	79-12-13	1128	6.5	1120	8.3	3.9	1.5	2.4	.06	1.5	5.5
		80-03-11	1201	11.5	811	8.1	2.4	1.2	1.2	.13	4.9	7.4
CS12-F	381536104331406	79-11-16	1206	11.0	900	8.1	1.9	.80	1.1	.18	1.2	3.3
		79-12-13	1130	6.5	1130	8.3	3.8	1.5	2.3	.03	1.5	5.4
		80-03-11	1204	12.0	773	8.3	2.1	1.0	1.1	.15	1.3	3.5
CS13-A	381547104330811	79-11-16	1256	11.0	899	8.1	1.9	.50	1.4	.19	1.2	3.3
		79-12-13	1225	7.5	1130	8.2	4.5	2.0	2.5	.09	1.5	6.1
		80-03-11	1241	9.5	1130	8.1	8.8	6.3	2.5	.11	2.3	11
CS13-B	381547104330812	79-11-16	1254	11.0	875	8.1	2.0	.60	1.4	.21	1.2	3.4
		79-12-13	1223	7.5	1190	8.3	4.2	1.6	2.6	.09	1.5	5.8
		80-03-11	1237	9.5	1200	8.1	4.6	2.0	2.6	.10	2.4	7.1
CS13-C	381547104330813	79-11-16	1252	11.0	875	8.1	2.3	.90	1.4	.21	1.2	3.7
		79-12-13	1221	7.5	1170	8.3	4.1	1.6	2.5	.09	1.5	5.7
		80-03-11	1234	9.5	1130	8.1	4.4	1.9	2.5	.13	2.4	6.9
CS13-D	381547104330814	79-11-16	1250	11.0	860	8.0	2.4	1.1	1.3	.19	1.2	3.8
		79-12-13	1219	7.5	1120	8.3	4.6	2.2	2.4	.09	1.5	6.2
		80-03-11	1231	14.5	1010	8.1	3.3	1.5	1.8	.13	2.0	5.4
CS13-E	381547104330815	79-11-16	1248	11.0	860	8.0	1.9	.60	1.3	.19	1.1	3.2
		79-12-13	1217	7.5	1120	8.3	3.9	1.5	2.4	.09	1.5	5.5
		80-03-11	1228	11.0	970	8.2	2.7	1.2	1.5	.10	3.8	6.6
CS13-F	381547104330816	79-11-16	1246	11.0	817	8.0	1.9	.60	1.3	.21	1.2	3.3
		79-12-13	1215	7.5	1160	8.3	4.0	1.6	2.4	.09	1.5	5.6
		80-03-11	1225	11.0	951	8.1	2.9	1.5	1.4	.11	1.6	4.6
CS13-1-A	381550104325201	80-03-11	1317	10.5	1110	8.1	5.8	3.4	2.4	.10	2.2	8.1
CS13-1-B	381550104325202	80-03-11	1313	9.5	1070	8.1	4.4	1.7	2.3	.11	2.2	6.3
CS13-1-C	381550104325203	80-03-11	1310	10.5	1060	8.1	3.9	1.7	2.2	.11	2.2	6.2
CS13-1-D	381550104325204	80-03-11	1307	10.5	1060	8.1	4.2	2.0	2.2	.12	2.2	6.5
CS13-1-E	381550104325205	80-03-11	1303	11.0	1010	8.1	3.3	1.7	1.6	.11	1.7	5.1

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS13-1-F	381550104325206	80-03-11	1300	11.5	925	8.1	2.8	1.3	1.5	.13	1.7	4.6
CS14-A	381552104324601	79-11-16	1330	11.0	950	8.0	2.1	.70	1.4	.21	1.2	3.5
		79-12-13	1310	3.0	1120	8.3	4.2	1.7	2.5	.09	1.5	5.8
		80-03-11	1330	9.5	1050	8.1	3.6	1.4	2.2	.12	2.2	5.9
CS14-B	381552104324602	79-11-16	1332	11.5	890	8.4	6.4	5.0	1.4	.21	1.2	7.8
		79-12-13	1308	3.0	1120	8.3	4.4	1.9	2.5	.09	1.5	6.0
		80-03-11	1333	14.0	1040	8.1	--	--	1.9	.12	2.2	--
CS14-C	381552104324603	79-11-16	1334	11.5	933	8.0	2.7	1.3	1.4	.19	1.2	4.1
		79-12-13	1306	4.0	1120	8.3	4.3	1.8	2.5	.09	1.5	5.9
		80-03-11	1337	11.0	1060	8.2	3.3	1.4	1.9	.13	2.1	5.5
CS14-D	381552104324604	79-11-16	1336	11.5	875	8.0	2.1	.80	1.3	.19	1.2	3.5
		79-12-13	1304	7.5	1120	8.3	4.6	2.0	2.6	.09	1.5	6.2
		80-03-11	1340	12.0	943	8.2	2.6	1.0	1.6	.14	1.9	4.6
CS14-E	381552104324605	79-11-16	1338	11.5	895	8.0	2.2	.90	1.3	.21	1.2	3.6
		79-12-13	1302	4.0	1130	8.3	4.2	1.7	2.5	.09	1.5	5.8
		80-03-11	1344	12.0	932	8.1	1.9	.40	1.5	.14	1.9	3.9
CS14-F	381552104324606	79-11-16	1340	11.5	940	8.0	2.1	.70	1.4	.21	1.2	3.5
		79-12-13	1300	4.0	1120	8.3	4.1	1.6	2.5	.09	1.5	5.7
		80-03-11	1346	12.0	931	8.2	1.7	.20	1.5	.14	1.8	3.6
CS15-A	381555104322501	79-11-16	1420	11.5	890	8.0	1.9	.60	1.3	.23	1.3	3.4
		79-12-13	1340	3.0	1170	8.3	3.9	1.3	2.6	.09	1.5	5.5
		80-03-11	1410	11.5	1040	8.0	3.3	1.3	2.0	.14	2.2	5.6
CS15-B	381555104322502	79-11-16	1422	11.5	925	8.0	2.1	.80	1.3	.23	1.3	3.6
		79-12-13	1342	3.0	1180	8.3	4.1	1.5	2.6	.10	1.5	5.7
		80-03-11	1413	11.5	1040	8.0	3.3	.90	2.1	.14	2.2	5.3
CS15-C	381555104322503	79-11-16	1424	11.5	925	8.0	2.0	.70	1.3	.23	1.3	3.5
		79-12-13	1344	3.0	1200	8.3	3.9	1.2	2.7	.10	1.6	5.6
		80-03-11	1416	11.5	1060	8.1	3.0	1.0	2.0	.14	2.2	5.3
CS15-D	381555104322504	79-11-16	1426	11.5	925	8.0	2.1	.80	1.3	.23	1.3	3.6

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS15-D	381555104322504	79-12-13	1346	3.0	1210	8.3	4.1	1.3	2.8	.10	1.6	5.8
		80-03-11	1419	12.0	980	8.1	3.2	1.4	1.8	.15	2.0	5.3
CS15-E	381555104322505	79-11-16	1428	11.5	940	8.0	2.3	1.0	1.3	.23	1.3	3.6
		79-12-13	1348	6.0	1200	8.3	4.4	1.3	2.7	.10	1.6	5.7
		80-03-11	1422	12.5	959	8.1	2.9	1.2	1.7	.15	1.9	4.9
CS15-F	381555104322506	79-11-16	1430	11.5	904	8.0	2.0	.70	1.3	.25	1.2	3.4
		79-12-13	1350	3.0	1120	8.3	4.1	1.6	2.5	.10	1.6	5.8
		80-03-11	1426	12.5	952	8.2	2.8	1.1	1.7	.16	1.8	4.8
CS15-1-A	381555104321301	80-03-11	1453	12.0	1090	8.1	2.3	.20	2.1	.15	2.2	4.6
CS15-1-B	381555104321302	80-03-11	1452	12.0	1030	8.0	2.0	.00	2.0	.16	2.1	4.3
CS15-1-C	381555104321303	80-03-11	1449	12.0	1070	8.0	3.3	1.3	2.0	.15	2.1	5.5
CS15-1-D	381555104321304	80-03-11	1446	12.5	991	8.1	3.1	1.2	1.9	.15	2.1	5.3
CS15-1-E	381555104321305	80-03-11	1443	12.5	1010	8.1	3.8	2.0	1.8	.15	2.0	5.9
CS15-1-F	381555104321306	80-03-11	1440	12.5	1010	8.0	2.6	.80	1.8	.15	2.0	4.7
CS16-A	381601104320301	79-11-16	1500	12.0	897	8.0	2.2	.90	1.3	.27	1.2	3.7
		79-12-13	1420	3.0	1180	8.3	3.3	1.3	2.5	.10	1.6	5.5
		80-03-11	1510	12.5	1030	8.0	2.5	.50	2.0	.16	2.0	4.7
CS16-B	381601104320302	79-11-16	1502	12.0	894	8.0	2.1	.80	1.3	.26	1.2	3.6
		79-12-13	1422	3.0	1120	8.3	6.3	3.8	2.5	.10	1.6	8.0
		80-03-11	1513	12.5	1020	8.0	2.5	.60	1.9	.16	2.1	4.8
CS16-C	381601104320303	79-11-16	1504	12.0	925	8.0	2.1	.80	1.3	.27	1.2	3.6
		79-12-13	1424	3.5	1120	8.3	3.8	1.2	2.6	.10	1.6	5.5
		80-03-11	1516	12.5	1000	8.1	2.9	1.1	1.8	.16	2.0	5.1
CS16-D	381601104320304	79-11-16	1506	12.0	910	8.0	2.1	.80	1.3	.25	1.3	3.6
		79-12-13	1426	3.5	1120	8.3	3.9	1.4	2.5	.10	1.6	5.6
		80-03-11	1518	12.5	997	8.1	2.5	.60	1.9	.17	2.0	4.7
CS16-E	381601104320305	79-11-16	1508	12.0	910	8.0	--	--	1.3	.25	1.3	--

Table 15.--*Water-quality field analyses and laboratory analyses of selected constituents for samples collected in November and December 1979 and in March 1980*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	DATE OF SAMPLE (Y-M-D)	TIME	TEMPERATURE (DEG C)	SPECIFIC CONDUCTANCE (MICROMHOS)	PH (UNITS)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)
CS16-E	381601104320305	79-12-13	1428	3.5	1180	8.3	4.0	1.4	2.6	.10	1.6	5.7
		80-03-11	1521	12.5	988	8.1	2.3	.40	1.9	.16	2.0	4.5
CS16-F	381601104320306	79-11-16	1510	12.0	895	8.0	2.0	.70	1.3	.25	1.3	3.5
		79-12-13	1430	3.5	1160	8.3	3.9	1.3	2.6	.10	1.6	5.6
		80-03-11	1523	12.5	982	8.1	2.3	.40	1.9	.17	1.9	4.4
CS16-1-A	381606104314401	80-03-11	1545	12.5	1020	8.0	3.2	1.2	2.0	.17	2.0	5.4
CS16-1-B	381606104314402	80-03-11	1548	12.5	1010	8.0	3.2	1.3	1.9	.17	2.1	5.5
CS16-1-C	381606104314403	80-03-11	1551	12.5	1000	8.0	3.1	1.1	2.0	.17	2.1	5.4
CS16-1-D	381606104314404	80-03-11	1553	12.5	1000	8.0	1.9	.00	1.9	.17	2.0	4.1
CS16-1-E	381606104314405	80-03-11	1556	12.5	1010	8.0	2.5	--	--	.17	2.0	--
CS16-1-F	381606104314406	80-03-11	1558	12.5	998	8.0	2.3	.40	1.9	.17	2.0	4.5
CS17-A	381601104313011	79-11-16	1554	11.5	890	7.9	2.6	1.4	1.2	.27	1.3	4.2
		79-12-13	1514	3.0	1140	8.3	4.2	1.7	2.5	.12	1.6	5.9
		80-03-11	1622	12.5	1010	8.2	--	--	--	.18	2.1	--
CS17-B	381601104313012	79-11-16	1552	11.5	860	7.9	2.0	.90	1.1	.27	1.3	3.6
		79-12-13	1512	3.5	1160	8.3	5.5	3.0	2.5	.12	1.6	7.2
		80-03-11	1620	12.5	1010	8.2	--	--	--	.18	2.1	--
CS17-C	381601104313013	79-11-16	1550	11.5	889	7.9	2.5	1.4	1.1	.27	1.4	4.2
		79-12-13	1510	3.0	1190	8.3	4.3	1.9	2.4	.12	1.6	6.0
		80-03-11	1619	12.5	1010	8.2	--	--	--	.18	2.1	--
CS17-D	381601104313014	79-11-16	1548	11.5	891	7.9	2.0	.90	1.1	.27	1.4	3.7
		79-12-13	1508	3.0	1170	8.3	4.2	1.8	2.4	.12	1.6	5.9
		80-03-11	1618	12.5	1000	8.2	--	--	--	.18	2.0	--
CS17-E	381601104313015	79-11-16	1546	11.5	895	7.9	2.2	1.1	1.1	.27	1.4	3.9
		79-12-13	1507	3.0	1180	8.3	4.2	1.7	2.5	.12	1.6	5.9
		80-03-11	1616	12.5	999	8.2	--	--	--	.18	2.1	--
CS17-F	381601104313016	79-11-16	1544	11.5	890	7.9	2.2	1.1	1.1	.28	1.3	3.8
		79-12-13	1505	3.0	1170	8.3	4.1	1.6	2.5	.12	1.6	5.8
		80-03-11	1614	12.5	1010	8.2	--	--	--	.18	2.1	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*

EXPLANATION OF HEADING INFORMATION

UNITS:

FT^3/S	=CUBIC FOOT PER SECOND
DEG C	=DEGREES CELSIUS
MICROMHOS	=MICROMHO PER CENTIMETER AT 25° CELSIUS
MG/L	=MILLIGRAM PER LITER
NTU	=NEPHELOMETRIC TURBIDITY UNITS
UG/L	=MICROGRAM PER LITER
COLS/100ML	=COLONY PER 100 MILLILITERS: VALUES PERCEDED BY K INDICATE THE COLONY COUNT WAS BASED ON A NONIDEAL BACTERIA PLATE
G/SQM	=GRAMS PER SQUARE METER

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
38	07097000	ARKANSAS RIVER AT PORTLAND	77-02-28	1500	173	6.0	600
			77-03-25	0930	141	7.0	645
			77-05-02	1200	300	16.0	540
			77-06-06	1355	631	21.0	345
			77-06-24	0900	416	18.0	460
			77-07-22	1230	272	21.0	560
			77-08-22	1200	335	22.0	549
			77-09-20	1445	183	20.0	600
			77-10-31	1400	105	10.5	900
			77-11-23	1400	243	6.5	600
			77-12-30	1300	231	2.0	530
			78-01-24	1400	202	1.5	560
			78-02-28	1430	153	9.0	560
			78-03-21	1500	110	16.0	720
			78-04-24	1315	303	16.5	450
			78-05-19	1145	510	15.5	360
			78-06-16	0910	3670	15.0	160
			78-07-14	1932	1160	20.0	230
			78-08-10	1205	777	20.0	280
			78-09-14	1300	222	18.5	445
			78-10-12	1400	179	16.0	550
			78-11-13	1315	219	5.5	530
			78-12-20	1900	231	3.5	508
			79-01-15	1300	392	.0	490
			79-02-16	1200	223	1.0	570
			79-03-19	1300	360	10.0	530
			79-04-12	1000	310	9.5	450
			79-05-14	1100	429	17.5	355
			79-06-25	1130	3380	12.5	190
			79-07-31	1115	970	19.0	270
			79-08-14	1300	760	19.0	390
			79-08-28	1530	789	23.0	324
			79-10-02	1300	318	17.0	545
			79-11-02	0915	293	5.0	510
			79-12-05	1015	364	3.0	391
			80-02-29	1415	303	6.0	448
			80-04-16	1345	416	15.5	465
			80-05-27	1245	2390	14.0	320
39	07099200	ARKANSAS RIVER NEAR PORTLAND	75-10-17	1430	259	12.0	580
			75-11-21	1315	592	2.0	412

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
38	77-02-28	13.8	8.5	--	33	2.8	60	21	240	89	147	179	0
	77-03-25	12.2	8.2	--	37	2.9	67	24	270	120	149	182	0
	77-05-02	10.6	8.3	--	33	3.0	56	20	220	91	134	160	0
	77-06-06	8.0	8.3	--	17	1.9	38	10	140	54	82	100	0
	77-06-24	8.0	7.8	--	23	2.4	52	16	200	89	110	130	0
	77-07-22	6.8	7.8	--	28	3.7	58	18	220	71	150	180	0
	77-08-22	6.3	7.8	--	29	3.8	66	17	230	87	150	180	0
	77-09-20	7.7	7.8	--	27	3.0	66	20	250	100	150	180	0
	77-10-31	9.1	7.6	--	42	3.6	85	29	330	160	170	210	0
	77-11-23	12.8	7.8	--	32	3.1	68	19	250	92	160	190	0
	77-12-30	12.4	7.6	--	28	2.7	64	19	240	110	131	160	0
	78-01-24	11.5	7.5	--	23	2.5	61	19	230	99	130	160	0
	78-02-28	9.4	7.7	--	29	1.0	61	20	230	95	140	170	0
	78-03-21	8.1	9.0	--	40	3.4	73	26	290	130	160	150	21
	78-04-24	11.6	8.6	--	21	2.2	46	14	170	72	100	120	1
	78-05-19	8.3	7.6	--	16	1.9	37	11	140	61	76	93	0
	78-06-16	8.2	7.1	--	5.0	.8	20	5.1	71	24	47	57	0
	78-07-14	7.4	7.4	--	9.1	1.5	27	7.3	97	32	66	80	0
	78-08-10	8.2	7.4	--	11	1.7	30	7.8	110	32	75	91	0
	78-09-14	10.6	8.9	--	19	2.4	50	14	180	69	110	130	4
	78-10-12	13.6	8.1	--	27	2.7	69	6.7	200	69	134	160	0
	78-11-13	12.7	8.3	--	30	2.6	57	18	220	77	140	170	0
	78-12-20	12.3	7.9	--	25	2.7	51	16	190	67	123	150	0
	79-01-15	--	7.8	--	23	2.6	52	16	200	76	124	--	--
	79-02-16	10.0	7.6	--	28	2.7	58	18	220	99	120	--	--
	79-03-19	9.2	7.8	--	22	2.5	52	15	190	72	120	--	--
	79-04-12	12.7	8.1	4.0	25	2.3	42	13	160	48	110	--	--
	79-05-14	9.8	8.3	6.5	18	2.2	37	11	140	66	72	--	--
	79-06-25	9.0	7.1	25	7.5	1.4	20	4.7	69	16	53	--	--
	79-07-31	8.7	8.1	3.5	10	1.7	29	7.5	100	29	74	--	--
	79-08-14	--	8.0	52	16	2.8	41	11	150	56	92	--	--
	79-08-28	--	8.1	3.2	15	1.5	36	9.9	130	46	85	--	--
	79-10-02	11.9	8.6	2.0	27	2.9	58	17	210	75	140	--	--
	79-11-02	--	8.3	2.1	27	2.9	59	18	220	71	150	--	--
	79-12-05	15.0	7.8	7.7	18	1.9	41	12	150	52	100	--	--
	80-02-29	11.0	8.1	2.0	22	2.3	50	15	190	67	120	--	--
	80-04-16	11.0	8.4	6.3	26	2.5	52	16	200	66	130	--	--
	80-05-27	9.0	7.9	66	14	2.0	31	10	120	44	75	--	--
39	75-10-17	11.8	8.4	--	31	3.0	71	23	270	110	159	194	0
	75-11-21	12.0	--	--	17	1.9	46	13	170	61	107	131	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SiO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
38	77-02-28	11	130	.7	11	70	70	--	360	--	--	--	--
	77-03-25	15	180	.6	8.8	50	90	--	427	--	--	--	--
	77-05-02	11	150	.8	10	10	30	--	364	--	--	--	--
	77-06-06	5.3	73	.4	3.4	40	20	--	205	--	--	--	--
	77-06-24	7.3	130	.5	11	30	30	--	307	--	--	--	--
	77-07-22	9.9	120	.6	15	100	30	--	345	--	--	--	--
	77-08-22	9.9	140	.6	15	110	10	--	373	--	--	--	--
	77-09-20	10	140	.7	12	20	50	--	369	--	--	--	--
	77-10-31	15	210	.8	10	10	80	--	500	--	--	--	--
	77-11-23	15	130	.8	13	40	20	--	376	--	--	--	--
	77-12-30	13	140	.7	14	30	40	--	372	--	--	--	--
	78-01-24	11	130	.7	12	20	50	--	346	--	--	--	--
	78-02-28	14	130	.7	11	30	60	--	352	--	--	--	--
	78-03-21	16	190	.6	9.0	30	60	--	454	--	--	--	--
	78-04-24	8.0	100	.5	3.1	70	40	--	261	--	--	--	--
	78-05-19	5.6	82	.5	8.8	50	20	--	210	--	--	--	--
	78-06-16	2.2	27	.2	7.1	150	30	--	96	--	--	--	--
	78-07-14	3.5	43	.3	8.6	80	20	--	140	--	--	--	--
	78-08-10	4.1	55	.4	9.0	20	20	--	165	--	--	--	--
	78-09-14	7.7	97	.6	11	60	40	--	271	--	--	--	--
	78-10-12	8.9	120	.6	10	20	40	--	325	--	--	--	--
	78-11-13	9.5	110	.5	12	10	40	--	325	--	--	--	--
	78-12-20	9.8	120	.6	12	20	40	--	315	--	--	--	--
	79-01-15	10	130	.6	13	20	40	--	327	--	--	--	--
	79-02-16	14	140	.5	12	30	40	--	348	--	--	--	--
	79-03-19	8.4	97	.5	12	30	100	--	283	--	--	--	--
	79-04-12	9.0	91	.5	11	130	40	260	260	9	.34	.32	--
	79-05-14	7.1	89	.4	7.1	--	--	218	215	31	.19	.34	--
	79-06-25	2.8	33	.3	7.7	60	10	104	109	108	.48	.58	--
	79-07-31	4.5	53	.4	8.7	--	--	169	159	22	.10	.07	--
	79-08-14	6.6	83	.4	11	20	20	269	229	274	.26	.87	--
	79-08-28	4.6	69	.4	11	--	--	194	199	11	.05	.10	--
	79-10-02	8.6	140	.6	11	--	--	352	350	11	.39	.56	.37
	79-11-02	9.1	110	.7	13	--	--	353	332	--	.44	.55	.39
	79-12-05	6.6	82	.5	10	40	30	249	234	46	.30	.63	.24
	80-02-29	9.0	96	.6	9.9	--	--	287	278	--	.41	.52	.34
	80-04-16	11	110	.6	12	30	20	283	309	--	.46	.77	.40
	80-05-27	5.2	64	.5	12	--	--	202	185	--	.50	.67	.43
39	75-10-17	9.1	170	.6	9.7	0	50	--	414	--	--	--	--
	75-11-21	4.4	82	.4	9.1	30	30	--	239	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
38	77-02-28	--	--	--	--	--	.50	--	--	--	.05	--	--
	77-03-25	--	--	--	--	--	.29	--	--	--	.25	--	--
	77-05-02	--	--	--	--	--	.24	--	--	--	.05	--	--
	77-06-06	--	--	--	--	--	.33	--	--	--	.03	--	--
	77-06-24	--	--	--	--	--	.24	--	--	--	.03	--	--
	77-07-22	--	--	--	--	--	.69	--	--	--	.10	--	--
	77-08-22	--	--	--	--	--	.50	--	--	--	.03	--	--
	77-09-20	--	--	--	--	--	.21	--	--	--	.04	--	--
	77-10-31	--	--	--	--	--	.25	--	--	--	.00	--	--
	77-11-23	--	--	--	--	--	.39	--	--	--	.03	--	--
	77-12-30	--	--	--	--	--	.58	--	--	--	.03	--	--
	78-01-24	--	--	--	--	--	.49	--	--	--	.07	--	--
	78-02-28	--	--	--	--	--	.26	--	--	--	.06	--	--
	78-03-21	--	--	--	--	--	.13	--	--	--	.07	--	--
	78-04-24	--	--	--	--	--	.15	--	--	--	.04	--	--
	78-05-19	--	--	--	--	--	.28	--	--	--	.01	--	--
	78-06-16	--	--	--	--	--	.14	--	--	--	.01	--	--
	78-07-14	--	--	--	--	--	.09	--	--	--	.02	--	--
	78-08-10	--	--	--	--	--	.18	--	--	--	.01	--	--
	78-09-14	--	--	--	--	--	.30	--	--	--	.03	--	--
	78-10-12	--	--	--	--	--	.28	--	--	--	--	--	.050
	78-11-13	--	--	--	--	--	.37	--	--	--	--	--	.050
	78-12-20	--	--	--	--	--	.56	--	--	--	--	--	.080
	79-01-15	--	--	--	--	--	.55	--	--	--	--	--	.100
	79-02-16	--	--	--	--	--	.61	--	--	--	--	--	.090
	79-03-19	--	--	--	--	--	.34	--	--	--	--	--	.030
	79-04-12	.27	--	.05	.02	.13	--	.15	.47	--	--	.04	.040
	79-05-14	.33	--	.01	.02	.07	--	.09	.43	--	--	.04	.040
	79-06-25	.46	--	.12	.02	.12	--	.14	.72	--	--	.02	.040
	79-07-31	.06	--	.01	.02	.19	--	.21	.28	--	--	.02	.040
	79-08-14	.80	--	.07	.04	.21	--	.25	1.1	--	--	.04	.350
	79-08-28	.00	--	.19	.02	1.5	.16	1.5	1.6	.21	--	.03	.020
	79-10-02	.54	.02	.02	.02	.24	.13	.26	.82	.52	--	.04	.040
	79-11-02	.52	.05	.03	--	--	.44	.45	1.0	.88	--	--	.000
	79-12-05	.58	.06	.05	.04	.41	.43	.45	1.1	.73	--	.03	.040
	80-02-29	.42	.07	.10	--	--	.23	.23	.75	.64	--	--	.040
	80-04-16	.71	.06	.06	--	--	.10	.18	.95	.56	--	--	.050
	80-05-27	.61	.07	.06	--	--	.26	.26	.93	.76	--	--	.040
39	75-10-17	--	--	--	--	--	.10	--	--	--	.04	--	--
	75-11-21	--	--	--	--	--	.21	--	--	--	.01	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOS-PHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)
38	77-02-28	--	--	--	--	--	--	--	--
	77-03-25	--	--	--	--	--	--	--	--
	77-05-02	--	--	--	--	--	--	--	--
	77-06-06	--	--	--	--	--	--	--	--
	77-06-24	--	--	--	--	--	--	--	--
	77-07-22	--	--	--	--	--	--	--	--
	77-08-22	--	--	--	--	--	--	--	--
	77-09-20	--	--	--	--	--	--	--	--
	77-10-31	--	--	--	--	--	--	--	--
	77-11-23	--	--	--	--	--	--	--	--
	77-12-30	--	--	--	--	--	--	--	--
	78-01-24	--	--	--	--	--	--	--	--
	78-02-28	--	--	--	--	--	--	--	--
	78-03-21	--	--	--	--	--	--	--	--
	78-04-24	--	--	--	--	--	--	--	--
	78-05-19	--	--	--	--	--	--	--	--
	78-06-16	--	--	--	--	--	--	--	--
	78-07-14	--	--	--	--	--	--	--	--
	78-08-14	--	--	--	--	--	--	--	--
	78-09-14	--	--	--	--	--	--	--	--
	78-10-12	--	--	--	--	--	--	--	--
	78-11-13	--	--	--	--	--	--	--	--
	78-12-20	--	--	--	--	--	--	--	--
	79-01-15	--	--	--	--	--	--	--	--
	79-02-16	--	--	--	--	--	--	--	--
	79-03-19	--	--	--	--	--	--	--	--
	79-04-12	.060	2.3	--	30	460	--	--	--
	79-05-14	1.30	2.3	--	48	110	--	--	5200
	79-06-25	.880	3.4	--	240	K550	--	--	0
	79-07-31	.040	.8	--	500	500	--	--	1000
	79-08-14	.400	4.8	--	K3100	3200	--	--	1700
	79-08-28	.050	1.4	--	52	58	--	--	--
	79-10-02	.030	1.5	--	K140	64	--	--	2200
	79-11-02	.060	--	--	41	50	--	--	--
	79-12-05	.110	1.3	--	K19	46	16.5	15.4	2800
	80-02-29	.060	--	--	100	K54	--	--	--
	80-04-16	.080	--	--	K4	--	--	--	--
	80-05-27	.390	--	--	--	--	--	--	--
39	75-10-17	--	--	--	--	--	--	--	--
	75-11-21	--	--	--	--	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
39	07099200	ARKANSAS RIVER NEAR PORTLAND	76-01-23	1330	243	4.0	520
			76-02-20	1130	243	3.0	520
			76-03-18	1400	219	12.0	560
			76-04-17	0945	191	7.5	725
			76-04-20	1700	196	17.0	720
			76-05-18	1230	705	17.0	370
			76-05-23	0900	1300	12.5	220
			76-06-15	1330	1510	16.0	230
			76-06-21	0900	1250	17.5	250
			76-07-13	1230	1210	21.0	203
			76-07-19	1230	1080	22.5	240
			76-08-17	1215	495	21.5	475
			76-08-20	1400	460	22.5	500
			76-09-14	1030	592	19.0	535
			76-09-23	1400	293	18.0	560
			76-10-08	0730	705	8.0	440
			76-11-19	1500	555	8.5	440
			76-12-17	1500	234	4.0	667
			77-01-24	1700	222	3.5	650
			77-02-28	1645	180	6.0	680
			77-03-25	1200	141	9.0	--
			77-05-02	1530	286	20.5	640
			77-06-06	1045	626	19.0	385
			77-06-24	1330	408	20.5	520
			77-07-22	1445	293	24.0	600
			77-08-22	1400	348	23.0	572
			77-09-20	1130	158	16.0	710
			77-10-31	1600	106	11.0	950
			77-11-23	1300	250	6.0	700
			77-12-30	0930	231	.0	580
			78-01-24	1300	204	1.5	600
			78-02-28	1600	153	9.0	650
			78-03-21	1400	114	15.0	850
			78-04-24	1130	303	13.5	520
			78-05-19	1035	510	14.0	430
			78-06-16	0910	3680	17.0	180
			78-07-14	0906	1160	20.0	255
			78-08-10	1045	777	18.5	300
			78-09-14	1345	222	19.0	490
			78-10-12	1305	179	15.0	640

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
39	76-01-23	12.2	8.2	--	23	2.7	68	19	250	100	148	180	0
	76-02-20	11.6	--	--	26	2.7	59	18	220	81	140	171	--
	76-03-18	11.8	7.8	--	26	2.6	60	20	230	100	131	160	0
	76-04-17	10.7	8.4	1.7	39	3.5	76	27	300	150	154	188	0
	76-04-20	--	8.9	2.0	37	--	68	25	270	130	147	141	19
	76-05-18	7.9	7.8	15	16	--	40	11	154	62	83	101	0
	76-05-23	8.3	7.6	--	11	1.5	27	7.7	99	36	63	77	0
	76-06-15	8.5	7.8	10	7.8	--	24	6.6	87	35	53	64	0
	76-06-21	7.6	7.8	--	10	1.4	30	7.9	110	45	62	76	0
	76-07-13	7.7	8.2	2.0	10	--	29	7.3	104	34	69	84	0
	76-07-19	8.3	8.5	--	11	1.4	33	7.9	120	41	74	90	0
	76-08-17	8.5	8.1	9.0	19	--	51	14	190	79	106	129	0
	76-08-20	7.1	7.8	--	23	2.7	59	16	210	93	121	147	0
	76-09-14	6.5	7.7	330	24	--	59	16	210	93	121	147	0
	76-09-23	7.3	7.7	--	27	3.4	71	20	260	110	146	178	0
	76-10-08	9.5	7.9	--	18	2.1	49	14	180	69	111	135	0
	76-11-19	11.8	8.5	--	20	2.0	51	15	190	82	107	130	0
	76-12-17	11.1	8.6	--	31	2.7	71	23	270	120	151	184	0
	77-01-24	11.2	8.5	--	30	2.5	74	23	280	140	144	171	0
	77-02-28	13.6	8.8	--	34	3.0	71	25	280	130	149	182	0
	77-03-25	13.3	8.5	--	41	3.3	85	31	340	190	147	179	0
	77-05-02	11.6	8.6	--	34	3.2	68	23	270	130	130	160	0
	77-06-06	7.4	7.8	--	13	2.0	43	12	160	67	90	110	0
	77-06-24	8.2	8.1	--	24	2.5	63	18	230	130	110	130	0
	77-07-22	6.3	7.9	--	29	4.0	68	19	250	100	150	180	0
	77-08-22	6.5	7.9	--	27	4.0	69	20	250	110	150	180	0
	77-09-20	8.3	8.2	--	32	3.1	82	24	300	150	163	190	0
	77-10-31	8.9	7.9	--	48	4.0	110	38	430	270	160	200	0
	77-11-23	12.8	8.0	--	34	3.3	85	25	320	160	164	200	0
	77-12-30	12.2	7.8	--	26	2.7	68	22	260	120	139	170	0
	78-01-24	11.4	7.8	--	29	2.6	70	22	270	130	140	170	0
	78-02-28	9.7	7.9	--	32	2.8	73	25	290	150	140	170	0
	78-03-21	8.3	9.0	--	42	3.6	88	32	350	200	150	170	8
	78-04-24	11.0	7.9	--	22	2.3	54	17	200	98	110	130	0
	78-05-19	8.2	7.5	--	17	2.2	41	13	160	76	80	98	0
	78-06-16	7.7	7.0	--	5.7	1.4	21	5.9	77	28	49	60	0
	78-07-14	7.4	7.4	--	9.7	1.5	29	8.0	110	41	64	78	0
	78-08-10	8.2	7.3	--	11	1.7	33	8.8	120	41	78	95	0
	78-09-14	11.2	8.2	--	20	2.6	56	16	210	91	110	140	0
	78-10-12	14.2	8.1	--	32	3.1	73	21	270	130	140	170	0

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
39	76-01-23	10	150	.8	12	10	50	--	382	--	--	--	--
	76-02-20	8.8	130	.6	9.8	70	60	--	341	--	--	--	--
	76-03-18	8.5	140	.5	9.1	0	50	--	347	--	--	--	--
	76-04-17	13	200	.5	8.3	60	80	--	462	--	--	--	--
	76-04-20	12	190	--	8.5	--	--	--	429	13	--	.57	--
	76-05-18	5.2	80	--	8.8	--	--	--	211	119	--	.70	--
	76-05-23	3.4	54	.4	7.7	20	20	--	152	--	--	--	--
	76-06-15	2.5	43	--	7.6	40	20	--	123	43	--	.34	--
	76-06-21	3.6	53	.5	8.4	30	10	--	153	--	--	--	--
	76-07-13	3.8	55	--	7.5	--	--	--	154	26	--	.20	--
	76-07-19	3.7	57	.4	7.8	20	10	--	167	--	--	--	--
	76-08-17	6.9	110	--	10	--	--	--	275	15	--	2.9	--
	76-08-20	7.8	120	.6	10	10	30	--	313	--	--	--	--
	76-09-14	7.6	130	--	9.8	70	10	--	319	1700	--	4.4	--
	76-09-23	9.6	170	.6	12	10	20	--	404	--	--	--	--
	76-10-08	9.1	88	.5	11	70	10	--	260	--	--	--	--
	76-11-19	6.8	100	.5	9.3	20	50	--	270	--	--	--	--
	76-12-17	11	180	.7	13	0	70	--	426	--	--	--	--
	77-01-24	9.7	180	.7	12	10	70	--	419	--	--	--	--
	77-02-28	12	180	.7	10	40	80	--	427	--	--	--	--
	77-03-25	15	250	.6	7.3	20	100	--	523	--	--	--	--
	77-05-02	12	190	.8	10	10	30	--	421	--	--	--	--
	77-06-06	5.7	94	.5	8.2	40	30	--	239	--	--	--	--
	77-06-24	7.7	150	.5	11	40	10	--	342	--	--	--	--
	77-07-22	11	150	.6	15	20	20	--	388	--	--	--	--
	77-08-22	9.4	150	.6	14	20	0	--	385	--	--	--	--
	77-09-20	10	190	.8	10	20	50	--	447	--	--	--	--
	77-10-31	15	320	.8	7.6	10	100	--	642	--	--	--	--
	77-11-23	14	200	.8	12	20	40	--	474	--	--	--	--
	77-12-30	13	170	.7	13	30	70	--	405	--	--	--	--
	78-01-24	9.6	170	.7	12	20	60	--	402	--	--	--	--
	78-02-28	15	150	.7	10	30	60	--	393	--	--	--	--
	78-03-21	15	250	.7	6.4	20	100	--	530	--	--	--	--
	78-04-24	8.3	130	.5	8.0	40	60	--	307	--	--	--	--
	78-05-19	5.8	98	.4	8.7	70	30	--	236	--	--	--	--
	78-06-16	2.1	33	.3	7.2	70	40	--	107	--	--	--	--
	78-07-14	3.5	49	.3	8.4	40	10	--	149	--	--	--	--
	78-08-10	4.0	61	.4	3.9	20	20	--	177	--	--	--	--
	78-09-14	8.1	120	.6	9.9	20	40	--	303	--	--	--	--
	78-10-12	11	170	.6	8.5	--	60	--	404	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
39	76-01-23	--	--	--	--	--	.66	--	--	--	.05	--	--
	76-02-20	--	--	--	--	--	.33	--	--	--	.04	--	--
	76-03-18	--	--	--	--	--	.25	--	--	--	.03	--	--
	76-04-17	--	--	--	--	--	.34	--	--	--	.04	--	--
	76-04-20	.53	--	.04	--	--	--	.26	.83	--	--	--	--
	76-05-18	.68	--	.02	--	--	--	.21	.91	--	--	--	--
	76-05-23	--	--	--	--	--	.22	--	--	--	.02	--	--
	76-06-15	.31	--	.03	--	--	--	.13	.47	--	--	--	--
	76-06-21	--	--	--	--	--	.13	--	--	--	.01	--	--
	76-07-13	.16	--	.04	--	--	--	.09	.29	--	--	--	--
	76-07-19	--	--	--	--	--	.08	--	--	--	.02	--	--
	76-08-17	2.9	--	.00	--	--	--	.17	3.1	--	--	--	--
	76-08-20	--	--	--	--	--	.20	--	--	--	.01	--	--
	76-09-14	4.4	--	.02	--	--	--	.44	4.8	--	--	--	--
	76-09-23	--	--	--	--	--	.59	--	--	--	.06	--	--
	76-10-08	--	--	--	--	--	.28	--	--	--	.03	--	--
	76-11-19	--	--	--	--	--	.23	--	--	--	.02	--	--
	76-12-17	--	--	--	--	--	.49	--	--	--	.05	--	--
	77-01-24	--	--	--	--	--	.56	--	--	--	.06	--	--
	77-02-28	--	--	--	--	--	.38	--	--	--	.03	--	--
	77-03-25	--	--	--	--	--	.24	--	--	--	.04	--	--
	77-05-02	--	--	--	--	--	.20	--	--	--	.05	--	--
	77-06-06	--	--	--	--	--	.33	--	--	--	.02	--	--
	77-06-24	--	--	--	--	--	.21	--	--	--	.02	--	--
	77-07-22	--	--	--	--	--	.55	--	--	--	.07	--	--
	77-08-22	--	--	--	--	--	.45	--	--	--	.06	--	--
	77-09-20	--	--	--	--	--	.25	--	--	--	.04	--	--
	77-10-31	--	--	--	--	--	.05	--	--	--	.04	--	--
	77-11-23	--	--	--	--	--	.39	--	--	--	.02	--	--
	77-12-30	--	--	--	--	--	.71	--	--	--	.25	--	--
	78-01-24	--	--	--	--	--	.48	--	--	--	.03	--	--
	78-02-28	--	--	--	--	--	.20	--	--	--	.05	--	--
	78-03-21	--	--	--	--	--	.05	--	--	--	.04	--	--
	78-04-24	--	--	--	--	--	.23	--	--	--	.04	--	--
	78-05-19	--	--	--	--	--	.31	--	--	--	.01	--	--
	78-06-16	--	--	--	--	--	.13	--	--	--	.01	--	--
	78-07-14	--	--	--	--	--	.16	--	--	--	.02	--	--
	78-08-10	--	--	--	--	--	.20	--	--	--	.01	--	--
	78-09-14	--	--	--	--	--	.21	--	--	--	.03	--	--
	78-10-12	--	--	--	--	--	.12	--	--	--	--	--	.060

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOS-PHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)
39	76-01-23	--	--	--	--	--	--	--	--
	76-02-20	--	--	--	--	--	--	--	--
	76-03-18	--	--	--	--	--	--	--	--
	76-04-17	--	--	--	--	--	--	--	--
	76-04-20	.090	2.4	K3	--	24	--	--	--
	76-05-18	.200	3.8	150	--	300	--	--	--
	76-05-23	--	--	--	--	--	--	--	--
	76-06-15	.120	.9	26	--	170	--	--	--
	76-06-21	--	--	--	--	--	--	--	--
	76-07-13	.050	1.6	110	--	330	--	--	--
	76-07-19	--	--	--	--	--	--	--	--
	76-08-17	.060	1.1	300	--	310	--	--	--
	76-08-20	--	--	--	--	--	--	--	--
	76-09-14	.660	>7.0	22000	--	13000	--	--	--
	76-09-23	--	--	--	--	--	--	--	--
	76-10-08	--	--	--	--	--	--	--	--
	76-11-19	--	--	--	--	--	--	--	--
	76-12-17	--	--	--	--	--	--	--	--
	77-01-24	--	--	--	--	--	--	--	--
	77-02-28	--	--	--	--	--	--	--	--
	77-03-25	--	--	--	--	--	--	--	--
	77-05-02	--	--	--	--	--	--	--	--
	77-06-06	--	--	--	--	--	--	--	--
	77-06-24	--	--	--	--	--	--	--	--
	77-07-22	--	--	--	--	--	--	--	--
	77-08-22	--	--	--	--	--	--	--	--
	77-09-20	--	--	--	--	--	--	--	--
	77-10-31	--	--	--	--	--	--	--	--
	77-11-23	--	--	--	--	--	--	--	--
	77-12-30	--	--	--	--	--	--	--	--
	78-01-24	--	--	--	--	--	--	--	--
	78-02-28	--	--	--	--	--	--	--	--
	78-03-21	--	--	--	--	--	--	--	--
	78-04-24	--	--	--	--	--	--	--	--
	78-05-19	--	--	--	--	--	--	--	--
	78-06-16	--	--	--	--	--	--	--	--
	78-07-14	--	--	--	--	--	--	--	--
	78-08-10	--	--	--	--	--	--	--	--
	78-09-14	--	--	--	--	--	--	--	--
	78-10-12	--	--	--	--	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
39	07099200	ARKANSAS RIVER NEAR PORTLAND	78-11-13	1220	216	6.0	590
			78-12-20	0930	231	2.0	550
			79-01-15	1530	392	.0	625
			79-02-16	1410	228	1.0	580
			79-03-19	1515	369	9.0	464
			79-04-12	1230	310	11.0	510
			79-05-16	1400	404	18.5	390
			79-06-25	1415	3380	14.0	200
			79-07-31	1415	970	20.5	296
			79-08-29	1115	938	17.5	320
6	07099500	ARKANSAS RIVER NEAR PUEBLO	76-04-21	1000	404	11.5	680
			76-05-18	1515	592	15.0	690
			76-06-15	1530	1400	18.0	345
			76-07-16	1230	853	24.0	430
			76-08-20	1100	562	22.0	620
			76-09-16	1430	217	19.5	620
			79-04-12	1345	119	11.5	653
			79-05-14	1430	406	19.0	575
			79-06-26	1230	2350	16.0	232
			79-07-27	1100	1158	21.0	273
			79-08-30	1430	530	24.5	365
			79-10-02	1100	270	18.0	469
			79-12-03	1000	54	5.5	1290
			80-04-14	1215	115	12.0	589
			80-06-17	0900	4950	17.0	320
12	381607104372500	ARKANSAS RIVER AT 4TH ST AT PUEBLO	79-04-12	1500	143	13.0	680
			79-05-14	1545	334	18.5	593
			79-06-26	1430	2300	16.0	300
			79-07-27	1415	1160	23.0	283
			79-08-30	0945	483	20.0	400
			79-10-02	1000	190	16.5	510
			79-12-03	1215	54	8.0	826
13	381516104362200	ARKANSAS RIVER AT SANTA FE AVE AT PUEBLO	79-04-12	1700	150	12.0	715
			79-05-14	1630	334	18.5	600
			79-06-26	1530	2300	18.0	323
			79-07-27	1315	1160	23.0	398
			79-08-30	1200	483	22.5	457
			79-10-02	1430	190	21.0	561
			79-12-03	1400	54	11.0	1000
			80-04-14	1500	165	14.0	775

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
39	78-11-13	14.0	7.9	--	34	2.9	66	21	250	100	154	180	0
	78-12-20	--	7.8	--	34	2.8	61	20	230	99	131	160	0
	79-01-15	--	8.0	--	31	3.0	62	20	240	110	130	--	--
	79-02-16	11.0	7.6	--	27	2.9	57	19	220	100	124	--	--
	79-03-19	9.0	8.1	--	22	2.4	56	15	200	82	124	--	--
	79-04-12	13.8	8.6	--	29	2.4	48	17	190	70	124	--	--
	79-05-16	9.8	8.2	--	19	2.3	46	13	170	88	84	--	--
	79-06-25	9.3	7.1	--	5.6	1.1	19	4.8	67	19	48	--	--
	79-07-31	7.9	8.7	--	12	1.7	32	8.4	110	40	75	--	--
	79-08-29	9.3	7.4	--	13	1.4	36	9.6	130	50	79	--	--
6	76-04-21	10.8	8.5	1.4	31	--	70	23	270	130	136	151	7
	76-05-18	9.4	8.5	3.0	30	--	68	22	260	140	121	148	0
	76-06-15	9.0	8.1	10	13	--	34	9.3	120	58	66	80	4
	76-07-16	8.9	8.5	3.0	17	--	47	13	170	80	94	94	8
	76-08-20	8.1	8.4	9.6	25	--	76	17	260	170	91	105	3
	76-09-16	8.2	8.1	4.2	26	--	72	18	250	150	107	131	0
	79-04-12	10.2	8.5	--	39	--	64	23	250	120	134	--	--
	79-05-14	9.9	8.8	--	31	--	65	21	250	150	98	--	--
	79-06-26	9.3	7.5	--	8.9	1.5	27	7.1	97	42	55	--	--
	79-07-27	--	8.6	--	9.4	1.8	32	7.3	110	46	64	--	--
	79-08-30	8.9	8.7	--	17	2.0	42	11	150	68	82	--	--
	79-10-02	8.8	8.3	--	20	2.4	50	14	180	83	100	--	--
	79-12-03	10.8	7.8	--	74	7.1	160	46	590	420	170	--	--
	80-04-14	10.2	8.4	--	--	--	67	21	250	--	--	--	--
	80-06-17	9.2	8.0	--	--	--	33	8.9	124	55	64	--	--
12	79-04-12	10.2	8.5	--	41	--	66	24	260	120	140	--	--
	79-05-14	10.1	8.9	--	32	--	64	22	250	160	91	--	--
	79-06-26	9.3	7.8	--	10	1.6	31	8.3	110	55	57	--	--
	79-07-27	--	8.9	--	9.3	1.8	32	7.3	110	46	64	--	--
	79-08-30	9.2	8.0	--	17	1.9	46	12	160	78	86	--	--
	79-10-02	8.8	8.2	--	22	2.5	55	15	200	100	98	--	--
	79-12-03	11.6	7.8	--	42	3.5	95	27	350	200	154	--	--
13	79-04-12	11.2	8.5	--	41	--	69	25	280	150	130	--	--
	79-05-14	9.6	8.9	--	34	--	61	22	240	150	90	--	--
	79-06-26	9.0	7.8	--	13	1.6	35	9.5	130	69	58	--	--
	79-07-27	--	8.8	--	16	1.9	45	11	160	88	70	--	--
	79-08-30	11.2	8.6	--	22	2.0	52	14	190	100	86	--	--
	79-10-02	11.5	8.6	--	25	2.6	59	17	220	120	98	--	--
	79-12-03	12.6	8.1	--	55	12	120	34	440	300	144	--	--
	80-04-14	10.2	8.6	--	--	--	71	23	270	150	124	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
39	78-11-13	15	130	.6	11	20	50	--	367	--	--	--	--
	78-12-20	10	150	.6	13	20	60	--	369	--	--	--	--
	79-01-15	11	150	.6	13	20	30	--	372	--	--	--	--
	79-02-16	12	140	.5	12	30	50	--	345	--	--	--	--
	79-03-19	2.0	100	.5	12	20	80	--	284	--	--	--	--
	79-04-12	9.8	110	.5	10	20	30	--	300	--	--	--	--
	79-05-16	7.6	110	.5	7.2	10	10	--	254	--	--	--	--
	79-06-25	2.7	32	.3	7.6	60	20	--	102	--	--	--	--
	79-07-31	4.4	64	.4	8.9	20	20	--	177	--	--	--	--
	79-08-29	3.9	67	.4	10	120	20	--	190	--	--	--	--
6	76-04-21	9.4	180	--	1.5	--	--	--	396	6	--	.40	--
	76-05-18	9.8	180	--	4.2	--	--	--	387	9	--	.47	--
	76-06-15	3.5	70	--	7.3	30	10	--	177	16	--	.44	--
	76-07-16	7.3	110	--	7.4	--	--	--	256	0	--	.10	--
	76-08-20	11	190	--	8.1	--	--	--	382	9	--	.20	--
	76-09-16	7.2	170	--	6.1	10	30	--	364	0	--	.14	--
	79-04-12	11	200	.6	4.2	--	20	--	--	9	--	.33	--
	79-05-14	12	180	.6	3.0	--	--	--	--	4	--	.38	--
	79-06-26	2.9	48	.4	9.0	--	9	--	138	32	--	.10	--
	79-07-27	3.3	59	.3	8.3	--	--	--	160	9	--	.19	--
	79-08-30	4.5	96	.4	8.5	--	--	--	231	23	--	.10	--
	79-10-02	7.5	110	.5	7.8	--	--	--	272	18	--	.77	--
	79-12-03	31	480	.6	8.3	--	--	--	905	7	--	.66	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
12	79-04-12	12	200	.6	3.5	--	30	--	--	10	--	.30	--
	79-05-14	12	180	.6	2.3	--	--	--	--	12	--	.26	--
	79-06-26	3.5	68	.4	8.7	--	10	--	166	23	--	.21	--
	79-07-27	3.4	62	.4	8.0	--	--	--	163	9	--	.17	--
	79-08-30	4.8	120	.4	7.5	--	--	--	261	5	--	.05	--
	79-10-02	6.3	130	.5	7.6	--	--	--	298	0	--	2.3	--
	79-12-03	10	270	.6	5.4	--	--	--	544	0	--	.52	--
13	79-04-12	12	200	.7	3.1	--	20	--	--	4	--	.28	--
	79-05-14	13	180	.6	2.1	--	--	--	--	5	--	.26	--
	79-06-26	5.0	86	.4	9.0	--	10	--	194	29	--	--	--
	79-07-27	6.4	120	.4	3.5	--	--	--	251	8	--	.18	--
	79-08-30	6.2	150	.4	22	--	--	--	320	24	--	.15	--
	79-10-02	7.9	170	.5	7.9	--	--	--	350	1	--	.00	--
	79-12-03	17	390	.7	5.8	--	--	--	719	0	--	.54	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
39	78-11-13	--	--	--	--	--	.32	--	--	--	--	--	.050
	78-12-20	--	--	--	--	--	.60	--	--	--	--	--	.080
	79-01-15	--	--	--	--	--	.70	--	--	--	--	--	.110
	79-02-16	--	--	--	--	--	.59	--	--	--	--	--	.100
	79-03-19	--	--	--	--	--	.33	--	--	--	--	--	.030
	79-04-12	--	--	--	--	--	.14	--	--	--	.04	--	.040
	79-05-16	--	--	--	--	--	.15	--	--	--	--	--	.040
	79-06-25	--	--	--	--	--	.10	--	--	--	--	--	.020
	79-07-31	--	--	--	--	--	.04	--	--	--	--	--	.040
	79-08-29	--	--	--	--	--	.16	--	--	--	.02	--	.020
6	76-04-21	.37	--	.03	--	--	--	.64	1.0	--	--	--	--
	76-05-18	.41	--	.06	--	--	--	.73	1.2	--	--	--	--
	76-06-15	.42	--	.02	--	--	--	.48	.92	--	--	--	--
	76-07-16	.10	--	.00	--	--	--	.71	.81	--	--	--	--
	76-08-20	.19	--	.01	--	--	--	.53	.73	--	--	--	--
	76-09-16	.14	--	.00	--	--	--	.79	.93	--	--	--	--
	79-04-12	.24	--	.09	.04	.23	--	.27	.60	--	--	--	--
	79-05-14	.36	--	.02	.02	.11	--	.13	.51	--	--	--	--
	79-06-26	.07	--	.03	.02	.21	--	.23	.33	--	--	--	--
	79-07-27	.18	--	.01	.02	.19	--	.21	.40	--	--	--	--
	79-08-30	.08	--	.02	.02	.23	--	.25	.35	--	--	--	--
	79-10-02	.76	--	.01	.02	1.5	--	1.5	2.3	--	--	--	--
	79-12-03	.61	--	.05	.16	6.9	--	7.1	7.8	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
12	79-04-12	.18	--	.12	.04	.31	--	.35	.65	--	--	--	--
	79-05-14	.25	--	.01	.02	.06	--	.08	.34	--	--	--	--
	79-06-26	.18	--	.03	.04	.44	--	.48	.69	--	--	--	--
	79-07-27	.16	--	.01	.02	.14	--	.16	.33	--	--	--	--
	79-08-30	.01	--	.04	.02	.21	--	.23	.28	--	--	--	--
	79-10-02	2.3	--	.01	.02	.52	--	.54	2.8	--	--	--	--
	79-12-03	.46	--	.06	.04	1.2	--	1.2	1.7	--	--	--	--
13	79-04-12	.25	--	.03	.02	.41	--	.43	.71	--	--	--	--
	79-05-14	.25	--	.01	.02	.07	--	.09	.35	--	--	--	--
	79-06-26	--	--	.01	.02	.47	--	.49	--	--	--	--	--
	79-07-27	.17	--	.01	.02	.51	--	.53	.71	--	--	--	--
	79-08-30	.00	--	.16	.02	.36	--	.38	.53	--	--	--	--
	79-10-02	.59	--	.01	.02	.36	--	.38	.98	--	--	--	--
	79-12-03	.50	--	.04	.06	1.9	--	2.0	2.5	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOS-PHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)
39	78-11-13	--	--	--	--	--	--	--	--
	78-12-20	--	--	--	--	--	--	--	--
	79-01-15	--	--	--	--	--	--	--	--
	79-02-16	--	--	--	--	--	--	--	--
	79-03-19	--	--	--	--	--	--	--	--
	79-04-12	--	--	--	--	--	--	--	--
	79-05-16	--	--	--	--	--	--	--	--
	79-06-25	--	--	--	--	--	--	--	--
	79-07-31	--	--	--	--	--	--	--	--
	79-08-29	--	--	--	--	--	--	--	--
6	76-04-21	.030	1.2	K1	--	10	--	--	--
	76-05-18	.030	2.0	K7	--	96	--	--	--
	76-06-15	.040	1.3	K4	--	57	--	--	--
	76-07-16	.030	1.2	240	--	640	--	--	--
	76-08-20	.030	1.4	56	--	120	--	--	--
	76-09-16	.000	1.1	34	--	110	--	--	--
	79-04-12	--	3.4	--	<1	K25	--	--	--
	79-05-14	--	1.9	--	K28	K53	--	--	--
	79-06-26	--	.7	--	48	82	--	--	--
	79-07-27	--	1.0	--	K20	110	--	--	--
	79-08-30	--	1.4	--	K11	54	--	--	--
	79-10-02	--	.8	--	K22	120	--	--	--
	79-12-03	--	1.2	--	K43	K60	--	--	--
	80-04-14	--	--	--	K1	--	--	--	--
	80-06-17	--	--	--	K25	--	--	--	--
12	79-04-12	--	3.2	--	K18	44	--	--	--
	79-05-14	--	2.1	--	120	K63	--	--	--
	79-06-26	--	1.0	--	54	140	--	--	--
	79-07-27	--	.9	--	K33	K56	--	--	--
	79-08-30	--	.9	--	46	47	--	--	--
	79-10-02	--	.9	--	K48	84	--	--	--
	79-12-03	--	1.0	--	84	K14	--	--	--
13	79-04-12	--	3.0	--	4400	4400	--	--	--
	79-05-14	--	2.4	--	K210	>400	--	--	--
	79-06-26	--	1.2	--	110	140	--	--	--
	79-07-27	--	1.0	--	K76	K64	--	--	--
	79-08-30	--	1.3	--	68	200	--	--	--
	79-10-02	--	1.7	--	40	110	--	--	--
	79-12-03	--	1.3	--	K20	K14	--	--	--
	80-04-14	--	--	--	--	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
13	381516104362200	ARKANSAS RIVER AT SANTA FE AVE AT PUEBLO	80-06-17	1130	4910	17.0	325
47	07106300	FOUNTAIN CREEK NEAR PINON	76-07-20	1015	--	23.0	890
			76-07-23	1115	--	25.0	920
			76-07-20	1200	--	26.0	875
			76-07-20	1230	--	26.0	870
			76-07-20	1315	--	27.0	890
			76-07-20	1345	--	28.0	950
			76-07-20	1415	--	29.0	1110
			76-07-20	1445	--	31.0	1120
			76-07-20	1515	--	31.0	1050
			76-08-02	0940	--	17.0	590
			76-08-02	1100	--	17.0	650
			76-08-02	1240	--	17.0	645
			76-08-02	1400	--	17.0	525
			76-08-02	1530	--	17.0	500
			76-08-02	1830	--	16.5	640
			76-08-02	2015	--	16.5	640
			76-08-02	2130	--	16.0	490
			76-08-02	2300	--	16.0	560
			76-08-03	0430	--	16.0	550
			76-08-03	0230	--	15.0	630
			76-08-03	1115	--	17.5	600
			76-08-03	1430	--	21.5	550
			76-08-04	1000	--	19.0	570
			76-08-04	1445	--	24.0	620
			76-08-05	1430	--	27.0	730
			76-08-25	1430	--	29.0	1240
			76-09-26	1130	--	13.0	915
			76-09-26	1345	--	13.5	780
			76-09-27	1445	--	12.0	730
			77-05-04	1250	18	21.0	1050
			79-04-11	1730	163	7.0	916
			79-05-11	1600	55	22.0	1200
			79-06-22	1600	211	26.5	1300
			79-12-05	1400	52	7.0	1180
			80-04-15	1030	61	14.0	1230
			80-05-08	1730	4900	9.5	720
			80-06-18	0200	168	19.0	1000
16	381515104351900	FOUNTAIN CREEK AT MOUTH NEAR PUEBLO	76-04-21	1230	20	21.0	2050
			76-07-14	0915	.30	24.0	2000

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
13	80-06-17	8.7	7.9	--	--	--	33	9.0	120	62	57	--	--
47	76-07-20	5.8	7.7	--	95	8.5	81	24	300	80	221	270	0
	76-07-20	5.8	7.8	--	94	8.5	86	25	320	110	212	258	0
	76-07-20	5.8	7.8	--	89	8.3	82	24	300	130	171	209	0
	76-07-20	5.9	7.9	--	91	8.2	84	24	310	120	191	235	0
	76-07-20	5.9	7.9	--	94	8.3	87	25	320	130	194	236	0
	76-07-20	5.8	7.9	--	100	8.3	90	26	330	170	159	194	0
	76-07-20	5.7	8.0	--	100	8.3	92	26	340	160	177	216	0
	76-07-20	4.9	8.0	--	110	8.3	99	27	360	190	173	211	0
	76-07-20	4.9	8.1	--	110	8.4	110	29	390	190	207	252	0
	76-08-02	--	--	--	56	4.0	63	9.7	200	110	92	112	--
	76-08-02	--	--	--	57	4.0	64	9.9	200	110	93	113	--
	76-08-02	--	--	--	53	4.1	63	9.7	200	52	145	177	--
	76-08-02	--	--	--	43	4.1	49	8.4	160	81	76	93	--
	76-08-02	--	--	--	40	4.3	51	9.3	170	93	72	88	--
	76-08-02	--	--	--	36	4.4	47	9.4	160	84	72	88	--
	76-08-02	6.9	--	--	38	4.6	48	9.8	164	91	74	85	--
	76-08-02	7.0	--	--	40	4.6	47	10	164	90	69	84	--
	76-08-02	7.1	--	--	42	4.7	49	10	160	99	65	79	--
	76-08-03	7.4	--	--	42	5.5	58	11	190	97	93	113	--
	76-08-03	7.5	--	--	54	6.3	80	17	270	210	56	68	--
	76-08-03	--	--	--	47	5.4	71	15	240	160	77	94	--
	76-08-03	--	--	--	45	5.5	64	14	220	140	82	100	--
	76-08-04	7.8	--	--	56	4.9	65	16	230	120	103	126	--
	76-08-04	6.7	--	--	64	5.5	69	16	240	130	112	136	--
	76-08-05	6.2	--	--	82	6.1	85	21	300	170	134	163	--
	76-08-25	5.3	8.0	--	130	8.7	110	32	410	210	192	234	0
	76-09-26	8.1	7.5	--	95	6.8	79	23	290	140	154	188	0
	76-09-26	8.1	7.5	--	70	5.9	59	18	220	91	130	159	0
	76-09-27	8.5	7.6	--	63	5.2	61	18	230	110	113	138	0
	77-05-04	7.0	8.2	--	140	5.6	120	36	450	240	210	260	0
	79-04-11	9.0	7.9	--	90	--	74	20	270	140	130	--	--
	79-05-11	7.4	8.3	--	120	--	100	30	370	200	170	--	--
	79-06-22	6.4	8.3	--	97	6.5	110	31	400	220	180	--	--
	79-12-05	10.3	8.1	--	140	7.2	110	34	410	210	200	--	--
	80-04-15	8.2	8.4	--	--	7.3	97	32	370	210	164	--	--
	80-05-08	9.0	7.8	--	--	--	--	--	--	--	--	--	--
	80-06-18	7.6	8.1	--	--	--	82	24	300	130	170	--	--
16	76-04-21	7.4	8.2	10	190	--	170	63	680	420	261	318	0
	76-07-14	6.2	7.8	16	150	--	240	65	870	720	143	181	0

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
13	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
47	76-07-20	38	290	1.8	12	40	10	--	703	1200	--	24	--
	76-07-20	37	300	1.7	12	40	10	--	709	988	--	13	--
	76-07-20	36	300	1.8	11	40	10	--	672	766	--	13	--
	76-07-20	36	290	1.7	11	20	10	--	678	646	--	9.1	--
	76-07-20	37	300	1.7	11	30	10	--	697	507	--	8.8	--
	76-07-20	40	320	1.8	11	40	10	--	709	445	--	5.7	--
	76-07-20	41	330	1.8	12	30	10	--	733	353	--	4.5	--
	76-07-20	44	340	1.8	12	20	10	--	761	292	--	3.7	--
	76-07-20	44	350	1.9	12	30	10	--	804	257	--	10	--
	76-08-02	19	190	1.1	8.8	10	0	--	415	16800	--	19	--
	76-08-02	20	200	1.1	8.7	10	10	--	428	14500	--	21	--
	76-08-02	21	170	1.1	8.9	10	10	--	432	14700	--	22	--
	76-08-02	15	140	1.0	7.3	20	20	--	321	15500	--	18	--
	76-08-02	13	150	.9	6.7	20	10	--	326	12400	--	17	--
	76-08-02	12	140	.9	5.8	80	20	--	303	9420	--	12	--
	76-08-02	12	140	1.0	5.6	10	20	--	306	9720	--	12	--
	76-08-02	13	150	1.0	5.5	20	20	--	317	6920	--	9.6	--
	76-08-02	15	150	1.0	5.8	10	20	--	321	9360	--	8.1	--
	76-08-03	12	170	.9	5.3	70	10	--	365	17200	--	14	--
	76-08-03	12	300	.9	5.3	40	10	--	515	13400	--	14	--
	76-08-03	15	230	1.4	8.2	80	20	--	445	7540	--	9.2	--
	76-08-03	15	190	1.5	9.3	30	10	--	399	6210	--	4.9	--
	76-08-04	21	200	1.7	12	80	10	--	446	3360	--	4.3	--
	76-08-04	23	210	1.8	13	70	10	--	472	2920	--	4.0	--
	76-08-05	32	270	2.1	15	10	0	--	603	1290	--	2.6	--
	76-08-25	58	380	2.3	14	40	10	--	871	7480	--	8.3	--
	76-09-26	39	290	1.7	11	30	0	--	653	9780	--	9.9	--
	76-09-26	27	210	1.4	9.4	30	0	--	493	8050	--	9.5	--
	76-09-27	22	220	1.2	8.2	60	10	--	477	11900	--	2.0	--
	77-05-04	54	430	2.2	14	10	8	--	940	114	--	2.5	--
	79-04-11	31	280	1.3	8.4	--	20	--	--	3610	--	6.0	--
	79-05-11	52	360	2.1	13	--	--	--	--	149	--	1.0	--
	79-06-22	48	360	2.4	13	--	5	--	781	63	--	.61	--
	79-12-05	66	390	1.9	15	--	--	--	884	634	--	2.4	--
	80-04-15	--	--	--	--	--	--	--	--	344	--	2.5	--
	80-05-08	--	--	--	--	--	--	--	--	7820	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	263	--	.87	--
16	76-04-21	70	670	--	11	--	--	--	1330	29	--	.69	--
	76-07-14	39	900	--	9.7	--	--	--	1490	21	--	1.2	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
13	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
47	76-07-20	22	--	1.7	--	--	3.8	1.9	26	--	.80	.86	--
	76-07-20	12	--	1.3	--	--	3.4	1.5	15	--	.71	.69	--
	76-07-20	12	--	.95	--	--	3.4	1.8	15	--	.70	1.1	--
	76-07-20	8.4	--	.71	--	--	3.3	2.1	11	--	.69	.83	--
	76-07-20	7.9	--	.88	--	--	3.2	1.9	11	--	.68	.86	--
	76-07-20	5.1	--	.56	--	--	3.1	2.3	8.0	--	.70	.87	--
	76-07-20	4.2	--	.34	--	--	2.9	2.6	7.1	--	.71	.86	--
	76-07-20	3.3	--	.40	--	--	2.8	2.5	6.2	--	.72	.79	--
	76-07-20	9.8	--	.17	--	--	2.7	2.8	13	--	.70	.83	--
	76-08-02	19	--	.06	--	--	1.7	1.9	21	--	.11	.18	--
	76-08-02	21	--	.03	--	--	1.7	1.9	23	--	.12	.19	--
	76-08-02	22	--	.03	--	--	1.9	2.0	24	--	.15	.20	--
	76-08-02	13	--	.07	--	--	1.6	1.5	20	--	.13	.23	--
	76-08-02	17	--	.05	--	--	1.5	1.5	19	--	.12	.20	--
	76-08-02	12	--	.07	--	--	.91	1.1	13	--	.04	.18	--
	76-08-02	12	--	.05	--	--	.99	1.1	13	--	.06	.17	--
	76-08-02	9.5	--	.11	--	--	.94	1.0	11	--	.05	.15	--
	76-08-02	8.0	--	.08	--	--	.98	1.3	9.4	--	.05	.34	--
	76-08-03	14	--	.11	--	--	.95	1.1	15	--	.02	.30	--
	76-08-03	14	--	.05	--	--	1.2	1.5	16	--	.05	.10	--
	76-08-03	9.1	--	.05	--	--	1.1	1.3	10	--	.08	.12	--
	76-08-03	4.8	--	.06	--	--	1.0	1.2	6.1	--	.19	.15	--
	76-08-04	4.3	--	.03	--	--	1.4	1.4	5.7	--	.19	.22	--
	76-08-04	4.0	--	.05	--	--	1.3	1.4	5.4	--	.24	.32	--
	76-08-05	2.6	--	.00	--	--	1.8	1.9	4.5	--	.37	.85	--
	76-08-25	7.5	--	.85	--	--	3.8	2.8	11	--	1.1	1.1	--
	76-09-26	9.1	--	.82	--	--	2.7	2.9	13	--	1.0	1.1	--
	76-09-26	8.6	--	.95	--	--	2.5	2.7	12	--	.92	1.0	--
	76-09-27	1.8	--	.21	--	--	2.0	2.2	4.2	--	.39	.45	--
	77-05-04	1.4	--	1.1	--	--	1.8	1.9	4.4	--	.56	.60	--
	79-04-11	5.6	--	.45	.30	2.4	--	2.7	8.7	--	--	--	--
	79-05-11	.84	--	.16	.10	2.9	--	3.0	4.0	--	--	--	--
	79-06-22	.58	--	.03	.02	2.1	--	2.1	2.7	--	--	--	--
	79-12-05	2.1	--	.32	.06	4.5	--	4.6	7.0	--	--	--	--
	80-04-15	2.0	--	.50	.36	5.2	--	5.6	8.1	--	--	--	--
	80-05-08	--	--	.08	--	--	--	1.1	--	--	--	--	--
	80-06-18	.87	--	.00	.01	2.7	--	2.7	3.6	--	--	--	--
16	76-04-21	.65	--	.04	--	--	--	3.0	3.7	--	--	--	--
	76-07-14	.00	--	1.3	--	--	--	3.5	4.7	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOSPHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTOPLANKTON, TOTAL (CELLS PER ML)
13	80-06-17	--	--	--	K40	--	--	--	--
47	76-07-20	12.0	--	--	--	--	--	--	--
	76-07-20	12.0	--	--	--	--	--	--	--
	76-07-20	9.10	--	--	--	--	--	--	--
	76-07-20	8.30	--	--	--	--	--	--	--
	76-07-20	7.10	--	--	--	--	--	--	--
	76-07-20	6.40	--	--	--	--	--	--	--
	76-07-20	5.50	--	--	--	--	--	--	--
	76-07-20	4.30	--	--	--	--	--	--	--
	76-07-20	4.30	--	--	--	--	--	--	--
	76-08-02	1.80	--	--	--	--	--	--	--
	76-08-02	2.70	--	--	--	--	--	--	--
	76-08-02	2.60	--	--	--	--	--	--	--
	76-08-02	13.0	--	--	--	--	--	--	--
	76-08-02	16.0	--	--	--	--	--	--	--
	76-08-02	8.70	--	--	--	--	--	--	--
	76-08-02	7.60	--	--	--	--	--	--	--
	76-08-02	2.50	--	--	--	--	--	--	--
	76-08-02	2.30	--	--	--	--	--	--	--
	76-08-03	7.10	--	--	--	--	--	--	--
	76-08-03	10.0	--	--	--	--	--	--	--
	76-08-03	2.40	--	--	--	--	--	--	--
	76-08-03	1.90	--	--	--	--	--	--	--
	76-08-04	1.80	--	--	--	--	--	--	--
	76-08-04	1.90	--	--	--	--	--	--	--
	76-08-05	1.50	--	--	--	--	--	--	--
	76-08-25	9.90	--	--	--	--	--	--	--
	76-09-25	6.60	--	--	--	--	--	--	--
	76-09-26	7.60	--	--	--	--	--	--	--
	76-09-27	2.10	--	--	--	--	--	--	--
	77-05-04	.650	--	--	--	--	--	--	--
	79-04-11	2.80	28	--	K450	K2000	--	--	--
	79-05-11	1.30	10	--	K3800	K400	--	--	--
	79-06-22	.060	1.0	--	24	68	--	--	--
	79-12-05	2.00	6.8	--	1600	420	--	--	--
	80-04-15	3.10	--	--	K15	--	--	--	--
	80-05-08	3.90	--	--	K1400	--	--	--	--
	80-06-18	1.40	--	--	K100	--	--	--	--
16	76-04-21	.390	1.0	21	--	130	--	--	--
	76-07-14	.140	4.3	3200	--	1600	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
16	381515104351900	FOUNTAIN CREEK AT MOUTH NEAR PUEBLO	76-08-17	1430	.20	30.0	2000
			76-09-14	1530	1.5	28.5	2240
			79-04-11	1530	340	8.0	850
			79-05-11	1430	82	22.0	1450
			79-06-27	1630	33	30.5	1450
			79-07-31	1500	49	26.0	1320
			79-08-27	1000	326	22.0	914
			79-08-31	1445	32	29.0	2170
			79-12-03	1500	58	9.0	1620
			80-04-15	1300	93	19.0	1370
21	381547104330300	ARKANSAS RIVER NR 23D LANE NEAR PUEBLO	79-04-13	0900	452	9.5	940
			79-05-15	1045	184	21.5	1110
			79-06-27	1530	2400	22.0	306
			79-08-01	1615	1020	25.0	386
			79-08-27	1200	1300	25.0	625
			79-08-30	1330	630	23.5	541
			79-10-01	1515	445	22.0	625
			79-12-03	1600	191	10.0	1120
23	381530104294600	ARKANSAS RIVER AT COLO HWY 233 AT BAXTER	76-04-21	1500	607	18.0	750
			76-05-19	0900	1010	15.5	690
			76-06-16	1000	1430	17.0	430
			76-07-15	1030	1370	23.0	380
			76-08-18	0845	668	21.5	540
			76-09-17	0845	293	21.5	715
			80-04-16	1400	562	14.5	819
51	380347104591100	SQUIRREL CREEK NEAR BEULAH	79-04-10	1145	2.7	5.0	190
			79-05-09	1300	3.4	5.5	159
			79-06-21	1200	4.1	15.0	180
			79-07-26	1300	.20	19.0	260
			79-08-29	1245	.32	17.0	290
			79-10-03	1120	.05	11.0	310
			79-12-04	1330	.16	7.0	307
52	380343104590700	SOUTH CREEK NEAR BEULAH	79-04-10	1015	1.3	5.0	210
			79-05-09	1415	4.7	5.0	138
			79-06-21	1300	2.4	16.0	167
			79-07-26	1430	.05	25.0	329
			79-08-29	1400	.18	19.5	301
			79-10-03	1020	.01	10.0	382
			79-12-04	1200	.09	.0	320
53	380447104581600	MIDDLE CREEK NEAR BEULAH	79-04-10	1310	7.0	7.5	240

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
16	76-08-17	11.2	8.7	2.4	230	--	170	76	740	600	139	155	7
	76-09-14	6.0	8.1	7.3	200	--	200	78	820	650	171	208	0
	79-04-11	9.2	7.9	--	87	--	67	21	250	120	130	--	--
	79-05-11	7.9	8.3	--	150	--	130	41	490	300	190	--	--
	79-06-27	6.0	8.4	--	170	7.1	130	40	490	290	200	--	--
	79-07-31	6.0	8.1	--	140	6.8	110	30	400	230	170	--	--
	79-08-27	--	8.1	--	80	6.9	65	20	250	120	130	--	--
	79-08-31	5.9	9.3	--	230	7.4	180	78	770	520	250	--	--
	79-12-03	9.3	8.2	--	180	6.9	140	49	550	320	230	--	--
	80-04-15	7.6	8.3	--	--	7.2	110	39	440	260	180	--	--
21	79-04-13	9.2	8.1	--	72	--	91	28	340	190	150	--	--
	79-05-15	7.2	8.0	--	77	--	98	32	380	250	130	--	--
	79-06-27	8.2	7.7	--	14	1.9	31	8.9	110	52	62	--	--
	79-08-01	--	8.5	--	17	2.7	40	11	150	74	71	--	--
	79-08-27	--	8.3	--	47	4.2	49	13	180	77	100	--	--
	79-08-30	8.8	8.4	--	30	2.8	55	16	200	110	93	--	--
	79-10-01	8.8	8.4	--	32	3.9	60	19	230	130	100	--	--
	79-12-03	7.8	8.0	--	93	3.7	100	36	400	240	160	--	--
23	76-04-21	7.3	8.0	5.7	45	--	80	26	310	160	149	182	0
	76-05-19	7.2	7.8	45	33	--	72	24	280	160	121	147	0
	76-06-16	7.1	7.4	10	17	--	42	12	150	79	75	92	0
	76-07-15	6.3	7.6	7.0	16	--	51	11	170	90	83	101	0
	76-08-18	5.6	7.5	12	25	--	62	16	220	130	86	105	0
	76-09-17	4.6	7.4	8.5	35	--	79	22	290	180	112	137	0
	80-04-16	8.0	8.2	--	--	--	81	27	310	180	130	--	--
51	79-04-10	10.4	7.6	--	7.4	--	23	5.7	81	15	66	--	--
	79-05-09	10.0	7.5	--	5.3	--	21	4.8	72	19	53	--	--
	79-06-21	9.5	7.6	--	5.6	1.5	20	4.9	70	13	57	--	--
	79-07-26	7.1	7.5	--	9.4	2.4	31	6.8	110	7	98	--	--
	79-08-29	7.9	7.6	--	12	1.9	34	7.5	120	6	110	--	--
	79-10-03	8.8	7.6	--	13	2.6	38	8.2	130	0	130	--	--
	79-12-04	9.4	7.5	--	17	2.1	32	8.0	110	0	120	--	--
52	79-04-10	10.4	7.8	--	13	--	23	5.6	81	9	72	--	--
	79-05-09	9.8	7.5	--	6.6	--	16	4.0	56	14	42	--	--
	79-06-21	8.5	7.5	--	8.4	1.7	18	4.6	64	9	55	--	--
	79-07-26	6.7	7.9	--	27	3.2	33	7.1	110	0	120	--	--
	79-08-29	7.1	7.7	--	20	2.2	33	7.2	110	0	120	--	--
	79-10-03	9.3	8.3	--	30	3.7	39	8.5	130	0	160	--	--
	79-12-04	9.8	7.4	--	34	2.7	36	8.0	120	0	150	--	--
53	79-04-10	9.9	7.9	--	8.3	--	25	7.3	93	10	83	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
16	76-08-17	71	960	--	5.3	--	--	--	1600	9	--	.60	--
	76-09-14	52	930	--	3.9	10	100	--	1570	0	--	.49	--
	79-04-11	39	260	1.4	7.5	--	20	--	--	1340	--	15	--
	79-05-11	58	490	2.3	12	--	--	--	--	289	--	1.2	--
	79-06-27	62	490	2.4	16	--	10	--	1040	520	--	1.5	--
	79-07-31	54	400	2.3	15	--	--	--	860	32300	--	.50	--
	79-08-27	32	240	1.2	8.1	--	--	--	532	8270	--	2.4	--
	79-08-31	71	910	2.5	14	--	--	--	1640	28	--	.21	--
	79-12-03	75	580	2.2	15	--	--	--	1190	48	--	1.9	--
	80-04-15	--	--	2.3	--	<10	6	--	--	--	--	2.0	--
21	79-04-13	32	270	1.1	7.6	--	20	--	--	632	--	--	--
	79-05-15	36	320	1.2	7.8	--	--	--	--	32	--	3.3	--
	79-06-27	5.5	65	.4	11	--	70	--	175	61	--	--	--
	79-08-01	8.8	150	.5	8.7	--	--	--	281	22	--	.63	--
	79-08-27	12	170	.7	8.5	--	--	--	365	1630	--	.55	--
	79-08-30	10	160	.5	8.2	--	--	--	338	21	--	1.2	--
	79-10-01	14	170	.6	8.5	--	--	--	368	3	--	1.1	--
	79-12-03	40	360	1.3	10	--	--	--	740	155	--	4.5	--
23	76-04-21	21	210	--	3.3	--	--	--	475	21	--	1.5	--
	76-05-19	13	190	--	4.6	--	--	--	409	40	--	.50	--
	76-06-16	6.6	96	--	6.9	20	20	--	226	25	--	.53	--
	76-07-15	7.5	96	--	6.5	--	--	--	238	39	--	.57	--
	76-08-18	11	180	--	7.3	--	--	--	353	21	--	.52	--
	76-09-17	16	210	--	7.2	10	90	--	437	7	--	1.1	--
	80-04-16	--	--	--	--	<10	20	--	--	--	--	1.5	--
51	79-04-10	2.0	24	1.0	15	--	<1	--	--	0	--	.18	--
	79-05-09	1.6	18	.9	12	--	--	--	--	0	--	.15	--
	79-06-21	1.4	18	.9	13	--	5	--	105	3	--	.20	--
	79-07-26	2.4	24	.9	24	--	--	--	156	0	--	.14	--
	79-08-29	1.9	25	.9	18	--	--	--	167	2	--	.15	--
	79-10-03	3.1	29	.9	19	--	--	--	192	0	--	1.1	--
	79-12-04	3.9	29	.9	7.9	--	--	--	173	12	--	2.8	--
52	79-04-10	4.4	24	.7	16	--	<1	--	--	2	--	.20	--
	79-05-09	2.3	17	.7	13	--	--	--	--	50	--	.31	--
	79-06-21	2.8	18	.7	24	--	6	--	107	9	--	.41	--
	79-07-26	9.3	30	.7	24	--	--	--	206	6	--	.29	--
	79-08-29	4.8	26	.7	20	--	--	--	186	11	--	.01	--
	79-10-03	9.7	37	.7	22	--	--	--	247	0	--	3.0	--
	79-12-04	10	36	.7	18	--	--	--	236	9	--	.49	--
53	79-04-10	3.4	25	1.0	15	--	2	--	--	6	--	.20	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
16	76-08-17	.60	--	.00	--	--	--	1.3	1.9	--	--	--	--
	76-09-14	.49	--	.00	--	--	--	4.9	5.4	--	--	--	--
	79-04-11	15	--	.06	.02	2.6	--	2.6	18	--	--	--	--
	79-05-11	1.1	--	.06	.04	3.2	--	3.2	4.4	--	--	--	--
	79-06-27	1.5	--	.04	.02	2.5	--	2.5	4.0	--	--	--	--
	79-07-31	.49	--	.01	.14	3.3	--	3.4	3.9	--	--	--	--
	79-08-27	2.4	--	.02	.02	2.8	--	2.8	5.2	--	--	--	--
	79-08-31	.18	--	.03	.14	4.8	--	4.9	5.1	--	--	--	--
	79-12-03	1.4	--	.51	.23	4.3	--	4.5	6.4	--	--	--	--
	80-04-15	1.9	--	.06	.03	5.2	--	5.2	7.2	--	--	--	--
21	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-05-15	.50	--	2.8	.31	.99	--	1.3	4.6	--	--	--	--
	79-06-27	--	--	.02	.14	.41	--	.55	--	--	--	--	--
	79-08-01	.15	--	.48	.16	.19	--	.35	.98	--	--	--	--
	79-08-27	.54	--	.01	.02	1.5	--	1.5	2.1	--	--	--	--
	79-08-30	.40	--	.80	.18	.26	--	.44	1.6	--	--	--	--
	79-10-01	.00	--	1.3	.27	.37	--	.64	1.7	--	--	--	--
	79-12-03	1.6	--	2.9	.27	1.6	--	1.9	6.4	--	--	--	--
23	76-04-21	.86	--	.64	--	--	--	1.4	2.9	--	--	--	--
	76-05-19	.43	--	.07	--	--	--	1.6	2.1	--	--	--	--
	76-06-16	.27	--	.26	--	--	--	.80	1.3	--	--	--	--
	76-07-15	.43	--	.14	--	--	--	.82	1.4	--	--	--	--
	76-08-18	.28	--	.24	--	--	--	1.1	1.6	--	--	--	--
	76-09-17	.60	--	.50	--	--	--	2.0	3.1	--	--	--	--
	80-04-16	.86	--	.64	.13	1.6	--	1.7	3.2	--	--	--	--
51	79-04-10	.15	--	.03	.00	.08	--	.08	.26	--	--	--	--
	79-05-09	.14	--	.01	.00	.02	--	.02	.17	--	--	--	--
	79-06-21	.19	--	.01	.02	.03	--	.05	.25	--	--	--	--
	79-07-26	.13	--	.01	.02	.02	--	.04	.18	--	--	--	--
	79-08-29	.14	--	.01	.00	.46	--	.46	.61	--	--	--	--
	79-10-03	1.1	--	.00	.02	.04	--	.01	1.1	--	--	--	--
	79-12-04	2.8	--	.02	.02	.20	--	.22	3.0	--	--	--	--
52	79-04-10	.17	--	.03	.00	.15	--	.15	.35	--	--	--	--
	79-05-09	.30	--	.01	.00	.04	--	.04	.35	--	--	--	--
	79-06-21	.40	--	.01	.02	.05	--	.07	.48	--	--	--	--
	79-07-26	.28	--	.01	.02	.01	--	.03	.32	--	--	--	--
	79-08-29	.00	--	.01	.00	.31	--	.31	.32	--	--	--	--
	79-10-03	3.0	--	.01	.02	.01	--	.03	3.0	--	--	--	--
	79-12-04	.47	--	.02	.00	.00	--	.00	.49	--	--	--	--
53	79-04-10	.16	--	.04	.00	.28	--	.28	.48	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOS-PHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)
16	76-08-17	.110	3.8	K90	--	K160	--	--	--
	76-09-14	.040	1.5	420	--	1600	--	--	--
	79-04-11	--	36	--	K1400	4600	--	--	--
	79-05-11	--	9.0	--	<1	K290	--	--	--
	79-06-27	--	6.0	--	K1400	1600	--	--	--
	79-07-31	--	40	--	--	21000	--	--	--
	79-08-27	--	23	--	--	--	--	--	--
	79-08-31	--	--	--	K50	170	--	--	--
	79-12-03	--	9.5	--	57	370	--	--	--
	80-04-15	2.40	--	--	K200	--	--	--	--
21	79-04-13	--	16	--	230	K130	--	--	--
	79-05-15	--	7.4	--	200	88	--	--	--
	79-06-27	--	.5	--	420	470	--	--	--
	79-08-01	--	3.8	--	K600	420	--	--	--
	79-08-27	--	3.0	--	K200	54	--	--	--
	79-08-30	--	--	--	--	--	--	--	--
	79-10-01	--	--	--	--	--	--	--	--
	79-12-03	--	8.0	--	--	K1100	--	--	--
23	76-04-21	.290	4.5	92	--	56	--	--	--
	76-05-19	.150	9.6	66	--	180	--	--	--
	76-06-16	.160	4.1	50	--	100	--	--	--
	76-07-15	.140	2.7	520	--	380	--	--	--
	76-08-18	.160	4.0	52	--	98	--	--	--
	76-09-17	.300	6.1	2300	--	320	--	--	--
	80-04-16	.720	--	--	--	--	--	--	--
51	79-04-10	--	1.1	--	K5	K11	--	--	--
	79-05-09	--	.5	--	39	38	--	--	--
	79-06-21	--	.2	--	K12	49	--	--	--
	79-07-26	--	.8	--	K540	K680	--	--	--
	79-08-29	--	.7	--	K1000	200	--	--	--
	79-10-03	--	.9	--	K6	K300	--	--	--
	79-12-04	--	.9	--	190	560	--	--	--
52	79-04-10	--	.9	--	K4	K40	--	--	--
	79-05-09	--	.1	--	180	22	--	--	--
	79-06-21	--	.0	--	83	110	--	--	--
	79-07-26	--	1.2	--	410	1800	--	--	--
	79-08-29	--	.9	--	440	390	--	--	--
	79-10-03	--	.7	--	K28	K360	--	--	--
	79-12-04	--	.8	--	120	120	--	--	--
53	79-04-10	--	1.3	--	36	42	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
53	380447104581600	MIDDLE CREEK NEAR BEULAH	79-05-09	1115	9.5	7.0	218
			79-06-21	1000	16	13.0	170
			79-07-26	1030	3.1	17.5	180
			79-08-29	1030	.76	15.0	320
			79-10-03	1220	.50	11.5	345
			79-12-04	0945	1.5	5.0	252
54	380411104571801	NORTH ST CHARLES R AT HWY 78 NR BEULAH	76-04-20	1330	2.0	19.0	340
			76-05-18	0900	9.7	9.0	250
			76-06-15	1000	4.8	13.5	350
			76-07-13	0900	.98	18.0	500
			76-08-17	0930	3.7	16.5	445
			76-09-14	1330	3.7	21.0	438
			80-04-16	1000	23	7.0	215
			80-06-17	1000	39	11.5	175
55	380450104452900	ST. CHARLES R. AT CF&I STEEL DIVERSION	79-04-11	0930	19	7.0	340
			79-05-10	1115	26	7.0	294
			79-06-21	1500	55	23.0	264
			79-07-25	1030	3.5	22.0	1050
			79-08-30	1015	4.2	20.0	684
			79-10-02	1225	3.4	16.0	815
			79-12-04	1510	6.1	3.5	642
			80-04-15	1400	39	15.0	290
			80-06-18	1030	99	16.0	215
56	07107900	GREENHORN CREEK NEAR RYE	79-04-09	1430	4.5	4.5	86
			79-05-09	1620	6.3	2.0	66
			79-06-20	1200	8.5	11.0	60
			79-07-25	1200	3.7	15.5	80
			79-08-28	1100	2.8	12.5	90
			79-10-01	1300	1.4	9.0	92
			79-12-04	1100	1.6	.5	81
			80-04-14	1230	3.4	3.5	73
			80-06-17	1345	32	11.0	55
56A	375545104524800	COLD SPRING CREEK AT MOUTH NEAR RYE	79-04-09	1345	.12	10.5	540
			79-05-08	1415	.62	12.0	460
			79-06-20	1300	.16	18.0	510
			79-07-25	1300	.01	20.5	571
			79-08-28	1330	.11	21.5	700
			79-10-01	1400	.03	15.0	579
			79-12-04	1300	.30	6.5	620
57	07108050	GREENHORN CREEK NEAR COLORADO CITY	76-04-23	1400	.72	18.5	1490

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
53	79-05-09	9.6	7.6	--	8.6	--	27	7.1	97	21	76	--	--
	79-06-21	9.7	7.3	--	6.5	1.4	19	4.9	68	7	61	--	--
	79-07-26	7.9	7.6	--	7.1	1.9	21	4.2	70	4	66	--	--
	79-08-29	8.4	7.9	--	18	1.8	38	7.1	120	0	130	--	--
	79-10-03	9.5	8.6	--	20	2.8	41	7.2	130	0	150	--	--
	79-12-04	11.0	7.6	--	14	1.8	30	6.3	100	2	99	--	--
54	76-04-20	12.0	8.3	6.8	23	--	33	7.7	110	0	136	166	0
	76-05-18	9.2	7.8	5.0	15	--	28	5.9	94	0	99	119	0
	76-06-15	8.6	8.0	3.0	24	--	38	8.3	130	0	145	177	0
	76-07-13	8.0	8.2	.90	35	--	53	11	180	0	228	278	0
	76-08-17	9.2	8.2	3.7	30	--	50	10	170	0	194	232	0
	76-09-14	7.7	8.0	18	31	--	52	9.7	170	0	193	235	0
	80-04-16	10.8	7.3	--	--	--	24	6.3	86	5	81	--	--
	80-06-17	8.8	7.8	--	--	--	20	4.8	70	53	17	--	--
55	79-04-11	10.1	8.0	--	13	--	41	11	150	49	99	--	--
	79-05-10	10.0	7.5	--	11	--	35	9.0	120	49	75	--	--
	79-06-21	7.5	7.9	--	10	1.7	29	7.7	100	38	66	--	--
	79-07-25	6.5	7.4	--	21	6.5	190	49	680	580	94	--	--
	79-08-30	8.4	7.9	--	27	2.5	81	24	300	170	130	--	--
	79-10-02	8.9	8.3	--	29	3.3	96	29	360	210	150	--	--
	79-12-04	10.8	8.1	--	26	2.4	78	21	280	120	160	--	--
	80-04-15	8.2	8.1	--	--	--	34	8.1	120	32	86	--	--
	80-06-18	9.0	8.0	--	--	--	24	5.8	84	32	52	--	--
56	79-04-09	10.0	7.4	--	2.7	--	11	2.0	36	2	34	--	--
	79-05-09	10.6	7.1	--	2.5	--	8.8	1.9	30	11	19	--	--
	79-06-20	9.4	6.8	--	2.2	1.1	7.1	1.3	23	7	16	--	--
	79-07-25	--	8.1	--	2.4	1.4	11	1.8	35	8	27	--	--
	79-08-28	7.8	7.6	--	2.7	1.2	11	1.9	35	3	32	--	--
	79-10-01	8.9	8.1	--	2.6	1.5	11	1.9	35	1	34	--	--
	79-12-04	11.6	7.9	--	2.6	1.2	11	1.9	35	1	34	--	--
	80-04-14	9.9	7.7	--	--	--	9.0	1.2	27	0	29	--	--
	80-06-17	8.8	7.2	--	--	--	5.6	.8	17	7	10	--	--
56A	79-04-09	9.3	8.2	--	29	--	68	15	230	52	184	--	--
	79-05-08	8.8	8.0	--	24	--	67	11	210	43	170	--	--
	79-06-20	8.6	8.0	--	23	3.1	61	13	210	26	184	--	--
	79-07-25	--	8.8	--	26	5.1	66	16	230	41	190	--	--
	79-08-28	7.0	7.4	--	24	4.3	71	14	240	35	204	--	--
	79-10-01	9.6	8.5	--	24	3.5	81	16	270	58	210	--	--
	79-12-04	11.2	8.2	--	25	3.9	79	16	260	63	200	--	--
57	76-04-23	10.9	8.4	2.5	56	--	190	58	710	490	223	249	11

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
53	79-05-09	2.9	23	1.0	15	--	--	--	--	6	--	.28	--
	79-06-21	1.7	16	.7	20	--	7	--	107	11	--	.21	--
	79-07-26	2.1	16	.5	18	--	--	--	110	23	--	.23	--
	79-08-29	4.7	24	.7	19	--	--	--	191	6	--	.12	--
	79-10-03	7.2	27	.7	18	--	--	--	214	1	--	.94	--
	79-12-04	4.7	26	.7	16	--	--	--	159	0	--	.41	--
54	76-04-20	4.7	24	--	16	--	--	--	190	17	--	.27	--
	76-05-18	3.2	19	--	18	--	--	--	148	59	--	.29	--
	76-06-15	3.7	20	--	22	10	20	--	199	10	--	.23	--
	76-07-13	6.6	23	--	22	--	--	--	291	0	--	.14	--
	76-08-17	7.3	28	--	19	--	--	--	259	5	--	.33	--
	76-09-14	6.4	24	--	21	20	40	--	260	17	--	.37	--
	80-04-16	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
55	79-04-11	4.0	71	.7	13	--	20	--	--	34	--	.25	--
	79-05-10	3.2	60	.7	12	--	--	--	--	22	--	.29	--
	79-06-21	2.1	52	.5	18	--	10	--	161	29	--	.47	--
	79-07-25	3.7	600	.8	3.7	--	--	--	936	884	--	1.6	--
	79-08-30	3.8	250	.5	13	--	--	--	480	12	--	.10	--
	79-10-02	5.0	270	.5	13	--	--	--	536	0	--	2.9	--
	79-12-04	5.2	180	.5	13	--	--	--	422	17	--	.58	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
56	79-04-09	.5	8.0	.2	12	--	1	--	--	0	--	.17	--
	79-05-09	.6	11	.2	9.4	--	--	--	--	3	--	.20	--
	79-06-20	1.0	10	.1	13	--	3	--	45	5	--	.10	--
	79-07-25	.3	9.4	.1	14	--	--	--	57	5	--	.06	--
	79-08-28	.3	7.9	.2	14	--	--	--	58	18	--	.10	--
	79-10-01	.5	12	.1	13	--	--	--	63	1	--	.52	--
	79-12-04	.5	12	.1	12	--	--	--	62	0	--	.42	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
56A	79-04-09	6.7	100	.4	19	--	10	--	--	32	--	.25	--
	79-05-08	7.7	63	.4	18	--	--	--	--	0	--	.36	--
	79-06-20	6.2	70	.4	21	--	7	--	306	5	--	.19	--
	79-07-25	7.6	92	.4	22	--	--	--	349	0	--	.14	--
	79-08-28	5.0	87	.4	21	--	--	--	347	8	--	.06	--
	79-10-01	4.6	110	.4	20	--	--	--	386	0	--	.93	--
	79-12-04	6.2	120	.4	17	--	--	--	388	0	--	.37	--
57	76-04-23	24	560	--	14	--	--	--	1440	11	--	.58	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. OF PLATE 1	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
53	79-05-09	.27	--	.01	.00	.12	--	.12	.40	--	--	--	--
	79-06-21	.20	--	.01	.02	.00	--	.02	.23	--	--	--	--
	79-07-26	.22	--	.01	.02	.04	--	.06	.29	--	--	--	--
	79-08-29	.10	--	.02	.00	.38	--	.38	.50	--	--	--	--
	79-10-03	.93	--	.01	.00	.04	--	.04	.98	--	--	--	--
	79-12-04	.38	--	.03	.02	.10	--	.12	.53	--	--	--	--
54	76-04-20	.25	--	.02	--	--	--	.27	.54	--	--	--	--
	76-05-18	.29	--	.00	--	--	--	.15	.44	--	--	--	--
	76-06-15	.22	--	.01	--	--	--	.07	.30	--	--	--	--
	76-07-13	.12	--	.02	--	--	--	.03	.17	--	--	--	--
	76-08-17	.33	--	.00	--	--	--	.34	.67	--	--	--	--
	76-09-14	.37	--	.00	--	--	--	.13	.50	--	--	--	--
	80-04-16	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
55	79-04-11	.23	--	.02	.02	.00	--	.02	.27	--	--	--	--
	79-05-10	.28	--	.01	.00	.00	--	.00	.29	--	--	--	--
	79-06-21	.46	--	.01	.02	.00	--	.01	.48	--	--	--	--
	79-07-25	1.6	--	.03	.06	.57	--	.63	2.2	--	--	--	--
	79-08-30	.08	--	.02	.00	.08	--	.08	.18	--	--	--	--
	79-10-02	2.9	--	.01	.02	.14	--	.16	3.1	--	--	--	--
	79-12-04	.57	--	.01	.02	.08	--	.10	.68	--	--	--	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
56	79-04-09	.15	--	.02	.00	.02	--	.02	.19	--	--	--	--
	79-05-09	.19	--	.01	.00	.02	--	.02	.22	--	--	--	--
	79-06-20	.08	--	.02	.04	.00	--	.04	.14	--	--	--	--
	79-07-25	.06	--	.00	.02	.00	--	.01	.07	--	--	--	--
	79-08-28	.10	--	.00	.02	5.4	--	5.4	5.5	--	--	--	--
	79-10-01	.51	--	.01	.00	.84	--	.84	1.4	--	--	--	--
	79-12-04	.40	--	.02	.02	.16	--	.18	.60	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
56A	79-04-09	.20	--	.05	.02	.31	--	.33	.58	--	--	--	--
	79-05-08	.29	--	.07	.00	.40	--	.40	.76	--	--	--	--
	79-06-20	.15	--	.04	.04	.35	--	.39	.58	--	--	--	--
	79-07-25	.13	--	.01	.00	.01	--	.01	.15	--	--	--	--
	79-08-28	.02	--	.04	.04	2.0	--	2.0	2.1	--	--	--	--
	79-10-01	.86	--	.07	.02	.05	--	.07	1.0	--	--	--	--
	79-12-04	.35	--	.02	.02	.35	--	.37	.74	--	--	--	--
57	76-04-23	.56	--	.02	--	--	--	.41	.99	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOS-PHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)
53	79-05-09	--	.1	--	84	150	--	--	--
	79-06-21	--	.2	--	36	160	--	--	--
	79-07-26	--	1.6	--	4000	7000	--	--	--
	79-08-29	--	.7	--	K160	540	--	--	--
	79-10-03	--	1.0	--	180	180	--	--	--
	79-12-04	--	.5	--	K15	K17	--	--	--
54	76-04-24	.090	1.2	K12	--	47	--	--	--
	76-05-18	.040	.8	61	--	180	--	--	--
	76-06-15	.050	.5	43	--	280	--	--	--
	76-07-13	.050	1.5	170	--	770	--	--	--
	76-08-17	.030	.7	37	--	310	--	--	--
	76-09-14	.090	1.1	160	--	970	--	--	--
	80-04-16	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	K57	--	--	--	--
55	79-04-11	--	.6	--	K10	230	--	--	--
	79-05-10	--	1.3	--	100	130	--	--	--
	79-06-21	--	.4	--	48	54	--	--	--
	79-07-25	--	5.0	--	--	3200	--	--	--
	79-08-30	--	9.0	--	240	K110	--	--	--
	79-10-02	--	8.5	--	400	84	--	--	--
	79-12-04	--	.5	--	K12	680	--	--	--
	80-04-15	--	--	--	K50	--	--	--	--
	80-06-18	--	--	--	K54	--	--	--	--
56	79-04-09	--	.7	--	<1	120	--	--	--
	79-05-09	--	.3	--	20	72	--	--	--
	79-06-20	--	.3	--	K3	32	--	--	--
	79-07-25	--	.4	--	88	150	--	--	--
	79-08-28	--	.5	--	K4	120	--	--	--
	79-10-01	--	.4	--	K4	360	--	--	--
	79-12-04	--	.3	--	<1	K15	--	--	--
	80-04-14	--	--	--	<1	--	--	--	--
	80-06-17	--	--	--	<1	--	--	--	--
56A	79-04-09	--	1.2	--	480	K28	--	--	--
	79-05-08	--	.5	--	84	120	--	--	--
	79-06-20	--	.9	--	110	440	--	--	--
	79-07-25	--	.6	--	K24	220	--	--	--
	79-08-28	--	.9	--	120	860	--	--	--
	79-10-01	--	.6	--	K2	76	--	--	--
	79-12-04	--	.6	--	<1	52	--	--	--
57	76-04-23	.140	1.9	<1	--	32	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
57	07108050	GREENHORN CREEK NEAR COLORADO CITY	76-05-20	1215	6.4	14.0	600
			76-06-17	1330	.40	16.0	1220
			76-07-16	0845	1.0	20.0	1180
			76-08-20	0830	4.3	16.5	888
			76-09-16	1345	1.5	23.0	1310
			79-04-09	1130	.38	12.0	2100
			79-05-08	1230	2.5	14.0	1430
			79-06-20	1400	4.7	19.0	733
			79-07-25	1430	.62	21.5	1650
			79-08-28	1430	.95	21.0	1200
			79-10-01	1545	.33	17.5	1460
			79-12-04	1500	.61	7.0	1600
			80-04-14	1445	1.5	15.5	1510
			80-06-17	1550	23	19.5	445
58	361130104341600	ST CHARLES R. AB POWER PLANT OUTFALL NEAR PUEBLO	79-04-11	1115	5.2	9.0	2200
			79-05-10	1330	4.6	9.0	2400
			79-06-21	1630	3.8	29.0	1500
			79-07-25	1600	10	28.0	1650
			79-08-30	1230	.02	25.5	2150
			79-12-05	0945	.18	2.0	3450
			80-04-15	1000	1.2	14.0	2280
			80-06-18	1300	44	25.0	900
59	381202104324700	ST CHARLES R. BL POWER PLANT OUTFALL NEAR PUEBLO	79-04-11	1230	6.5	11.0	2000
			79-05-10	1415	9.0	13.0	1900
			79-06-22	1030	3.6	22.0	1650
			79-07-25	1430	20	28.5	1730
			79-08-30	1400	.70	25.0	1650
			79-10-02	1315	1.2	20.5	1590
			79-12-05	1145	4.1	8.0	1890
			80-04-15	1130	2.9	16.0	2420
			80-06-18	1440	45	27.0	980
26	381556104273300	ST. CHARLES RIVER AT MOUTH NEAR VINELAND	76-04-23	0800	2.2	12.0	2500
			76-05-19	1115	6.1	22.0	2400
			76-06-16	1130	4.0	19.0	2750
			76-07-14	1130	1.6	27.0	2360
			76-08-18	1100	1.2	25.0	2560
			76-09-17	1100	4.0	21.0	1950
			79-04-11	1400	7.6	11.0	2450
			79-05-11	1015	11	10.0	2380
			79-06-22	1300	9.2	24.0	2460

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
57	76-05-20	8.8	8.1	10	16	--	74	18	260	150	103	132	0
	76-06-17	9.8	8.3	7.0	36	--	170	44	610	400	210	256	0
	76-07-16	7.1	7.9	4.5	51	--	160	41	570	330	235	286	0
	76-08-20	8.2	8.0	12	32	--	130	33	460	270	189	231	0
	76-09-16	9.4	8.1	3.2	46	--	180	49	650	430	222	271	0
	79-04-09	12.4	8.1	--	93	--	320	87	1200	900	260	--	--
	79-05-08	10.1	8.3	--	53	--	210	51	730	540	190	--	--
	79-06-20	7.6	8.0	--	25	2.5	100	25	350	220	130	--	--
	79-07-25	--	7.9	--	67	5.7	180	49	650	420	230	--	--
	79-08-28	5.7	7.7	--	49	4.1	170	44	610	390	220	--	--
	79-10-01	4.0	7.8	--	64	6.4	200	53	720	480	240	--	--
	79-12-04	11.0	8.0	--	77	7.0	220	58	790	530	260	--	--
	80-04-14	8.1	7.8	--	--	--	240	65	870	650	220	--	--
	80-06-17	7.8	8.2	--	--	--	56	13	190	120	73	--	--
58	79-04-11	10.0	8.3	--	150	--	280	85	1100	910	140	--	--
	79-05-10	10.8	8.2	--	130	--	260	75	960	820	144	--	--
	79-06-21	7.2	8.2	--	84	5.9	180	57	680	570	110	--	--
	79-07-25	6.0	8.0	--	71	9.1	250	48	820	740	87	--	--
	79-08-30	6.1	8.4	--	160	7.2	270	77	990	920	75	--	--
	79-12-05	10.4	7.9	--	260	9.1	410	150	1600	1500	160	--	--
	80-04-15	9.1	8.1	--	--	--	300	110	1200	1100	140	--	--
	80-06-18	7.0	8.2	--	--	--	120	28	420	300	124	--	--
59	79-04-11	13.4	8.7	--	140	--	230	75	880	790	89	--	--
	79-05-10	11.6	8.9	--	130	--	230	70	860	750	110	--	--
	79-06-22	8.5	8.1	--	110	7.0	170	58	660	550	110	--	--
	79-07-25	6.0	7.9	--	83	11	260	14	710	620	83	--	--
	79-08-30	9.6	8.9	--	110	8.1	210	56	760	680	77	--	--
	79-10-02	9.2	8.5	--	110	10	190	55	700	630	70	--	--
	79-12-05	10.4	8.2	--	140	13	210	71	820	760	59	--	--
	80-04-15	12.3	8.8	--	--	--	280	110	1200	1100	81	--	--
	80-06-18	6.6	8.2	--	--	--	120	31	430	310	124	--	--
26	76-04-23	9.4	8.1	7.7	130	--	300	130	1300	1100	181	221	0
	76-05-19	11.8	8.4	3.0	140	--	290	110	1200	1100	117	143	0
	76-06-16	11.8	8.3	15	144	--	320	120	1300	1100	184	219	0
	76-07-14	10.1	8.1	--	130	--	340	110	1300	1200	143	174	0
	76-08-18	8.1	8.3	14	144	--	300	120	1200	1100	166	202	0
	76-09-17	6.9	7.9	150	84	--	280	68	980	830	152	185	0
	79-04-11	10.9	8.2	--	160	--	310	110	1200	1100	150	--	--
	79-05-11	11.6	7.8	--	140	--	310	110	1200	1100	164	--	--
	79-06-22	11.1	7.8	--	120	7.4	270	90	1000	880	164	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
57	76-05-20	6.4	160	--	13	--	--	--	352	32	--	.31	--
	76-06-17	13	440	--	18	10	120	--	847	0	--	.28	--
	76-07-16	31	400	--	21	--	--	--	845	40	--	.29	--
	76-08-20	14	310	--	17	--	--	--	650	21	--	.58	--
	76-09-16	21	480	--	17	0	240	--	927	0	--	.49	--
	79-04-09	38	970	.3	15	--	230	--	--	18	--	.68	--
	79-05-08	17	580	.4	13	--	--	--	--	151	--	1.3	--
	79-06-20	5.5	250	.3	16	--	80	--	503	11	--	.10	--
	79-07-25	19	480	.4	21	--	--	--	960	0	--	.30	--
	79-08-28	15	470	.4	21	--	--	--	906	10	--	1.1	--
	79-10-01	23	600	.3	22	--	--	--	1110	7	--	2.5	--
	79-12-04	28	680	.3	21	--	--	--	1250	6	--	3.1	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
58	79-04-11	27	1100	.5	4.1	--	40	--	--	0	--	.43	--
	79-05-10	22	980	.7	5.7	--	--	--	--	0	--	.31	--
	79-06-21	15	710	.6	7.4	--	20	--	1130	17	--	.40	--
	79-07-25	12	840	.7	10	--	--	--	1290	318	--	.92	--
	79-08-30	28	1300	.6	3.0	--	--	--	1890	22	--	.29	--
	79-12-05	71	1800	.5	6.5	--	--	--	2800	4	--	2.9	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
59	79-04-11	34	1100	1.0	4.0	--	40	--	--	0	--	.58	--
	79-05-10	28	950	.9	4.4	--	--	--	--	9	--	.45	--
	79-05-22	10	780	.7	6.6	--	40	--	1210	3	--	.45	--
	79-07-25	17	760	.8	11	--	--	--	1210	1210	--	2.2	--
	79-08-30	40	870	1.3	13	--	--	--	1350	11	--	.49	--
	79-10-02	38	800	1.3	7.9	--	--	--	1250	12	--	.41	--
	79-12-05	48	990	1.7	11	--	--	--	1520	13	--	.89	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
26	76-04-23	34	1300	--	5.8	--	--	--	2410	12	--	.46	--
	76-05-19	36	1300	--	5.2	--	--	--	1950	12	--	.41	--
	76-06-16	35	1300	--	12	20	290	--	2440	38	--	.90	--
	76-07-14	34	1400	--	13	--	--	--	2110	8	--	.42	--
	76-08-18	38	1300	--	14	--	--	--	2410	12	--	.74	--
	76-09-17	19	930	--	11	10	240	--	1480	324	--	1.2	--
	79-04-11	39	1300	1.0	2.7	--	220	--	--	14	--	.63	--
	79-05-11	38	1100	1.0	6.9	--	--	--	--	0	--	.45	--
	79-06-22	28	1100	.8	8.8	--	420	--	1720	113	--	1.7	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
57	76-05-20	.30	--	.01	--	--	--	.14	.45	--	--	--	--
	76-06-17	.22	--	.06	--	--	--	.29	.57	--	--	--	--
	76-07-16	.14	--	.15	--	--	--	1.0	1.3	--	--	--	--
	76-08-20	.54	--	.04	--	--	--	.25	.83	--	--	--	--
	76-09-16	.47	--	.02	--	--	--	.65	1.1	--	--	--	--
	79-04-09	.55	--	.13	.10	1.3	--	1.4	2.1	--	--	--	--
	79-05-08	1.3	--	.04	.00	.15	--	.15	1.5	--	--	--	--
	79-06-20	.06	--	.04	.04	.16	--	.20	.30	--	--	--	--
	79-07-25	.00	--	.35	.38	.92	--	1.3	1.6	--	--	--	--
	79-08-28	.10	--	1.0	.21	7.0	--	7.2	8.3	--	--	--	--
	79-10-01	.90	--	1.6	.29	.81	--	1.1	3.6	--	--	--	--
	79-12-04	1.0	--	2.1	.26	.62	--	.88	4.0	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
58	79-04-11	.32	--	.11	.06	1.9	--	2.0	2.4	--	--	--	--
	79-05-10	.26	--	.05	.02	1.2	--	1.2	1.5	--	--	--	--
	79-06-21	.37	--	.03	.06	.94	--	1.0	1.4	--	--	--	--
	79-07-25	.84	--	.08	.12	1.3	--	1.4	2.3	--	--	--	--
	79-08-30	.25	--	.04	.00	.08	--	.08	.37	--	--	--	--
	79-12-05	2.8	--	.06	.16	17	--	17	20	--	--	--	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
59	79-04-11	.45	--	.13	.10	1.2	--	1.3	1.9	--	--	--	--
	79-05-10	.39	--	.06	.04	1.3	--	1.3	1.8	--	--	--	--
	79-06-22	.39	--	.06	.10	.80	--	.90	1.4	--	--	--	--
	79-07-25	2.1	--	.10	.10	1.1	--	1.2	3.4	--	--	--	--
	79-08-30	.32	--	.17	.06	4.1	--	4.2	4.7	--	--	--	--
	79-10-02	.32	--	.09	.06	.94	--	1.0	1.4	--	--	--	--
	79-12-05	.81	--	.08	.12	1.7	--	1.8	2.7	--	--	--	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
26	76-04-23	.37	--	.09	--	--	--	.38	.84	--	--	--	--
	76-05-19	.36	--	.05	--	--	--	.00	.41	--	--	--	--
	76-06-16	.82	--	.08	--	--	--	.13	1.0	--	--	--	--
	76-07-14	.32	--	.10	--	--	--	.19	.61	--	--	--	--
	76-08-18	.74	--	.00	--	--	--	.16	.90	--	--	--	--
	76-09-17	.99	--	.21	--	--	--	1.5	2.1	--	--	--	--
	79-04-11	.48	--	.15	.10	.84	--	.94	1.6	--	--	--	--
	79-05-11	.38	--	.07	.10	1.4	--	1.5	2.0	--	--	--	--
	79-06-22	1.6	--	.13	.10	.66	--	.76	2.5	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOS-PHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L)	COLI-FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERI-PHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERI-PHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTO-PLANK-TON, TOTAL (CELLS PER ML)
57	76-05-20	.060	--	--	--	--	--	--	--
	76-06-17	.060	.8	240	--	2100	--	--	--
	76-07-16	.280	4.5	2600	--	9800	--	--	--
	76-08-20	.230	1.5	2300	--	6000	--	--	--
	76-09-16	.270	1.2	K140	--	500	--	--	--
	79-04-09	--	1.7	--	K4	K40	--	--	--
	79-05-08	--	8.4	--	K12	200	--	--	--
	79-06-20	--	.9	--	40	130	--	--	--
	79-07-25	--	3.5	--	200	720	--	--	--
	79-08-28	--	5.4	--	--	270	--	--	--
	79-10-01	--	12	--	K3000	K80	--	--	--
	79-12-04	--	--	--	K10	K40	--	--	--
	80-04-14	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	K20	--	--	--	--
58	79-04-11	--	1.5	--	64	600	--	--	--
	79-05-10	--	.8	--	K7	180	--	--	--
	79-06-21	--	.2	--	K6	70	--	--	--
	79-07-25	--	2.3	--	K8800	K2600	--	--	--
	79-08-30	--	7.0	--	K12	120	--	--	--
	79-12-05	--	1.9	--	K20	620	--	--	--
	80-04-15	--	--	--	K34	--	--	--	--
	80-06-18	--	--	--	480	--	--	--	--
59	79-04-11	--	2.4	--	K26	600	--	--	--
	79-05-10	--	2.5	--	K33	300	--	--	--
	79-06-22	--	.7	--	74	140	--	--	--
	79-07-25	--	4.0	--	--	K6300	--	--	--
	79-08-30	--	10	--	K1400	1600	--	--	--
	79-10-02	--	3.5	--	310	490	--	--	--
	79-12-05	--	1.8	--	K35	430	--	--	--
	80-04-15	--	--	--	K50	--	--	--	--
	80-06-18	--	--	--	1300	--	--	--	--
26	76-04-23	.040	3.4	K24	--	560	--	--	--
	76-05-19	.010	2.6	64	--	420	--	--	--
	76-06-16	.250	2.7	140	--	440	--	--	--
	76-07-14	.050	3.0	570	--	140	--	--	--
	76-08-18	.060	1.3	170	--	300	--	--	--
	76-09-17	.100	2.5	1600	--	2900	--	--	--
	79-04-11	--	2.7	--	72	250	--	--	--
	79-05-11	--	1.4	--	84	410	--	--	--
	79-06-22	--	1.6	--	250	K75	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
26	381556104273300	ST. CHARLES RIVER AT MOUTH NEAR VINELAND	79-08-01	1500	4.2	28.0	2500
			79-08-10	1155	50	19.0	560
			79-08-31	1345	7.7	25.0	2810
			79-10-02	1300	5.8	20.5	2400
			79-12-05	1500	10	7.0	2680
29	07109500	ARKANSAS RIVER NEAR AVONDALE	76-04-22	0900	485	13.5	740
			76-05-19	1300	938	19.0	720
			76-06-18	1315	1060	16.0	425
			76-07-14	1300	1090	25.0	420
			76-08-18	1230	695	25.0	548
			76-09-15	1100	1040	20.5	650
			79-04-10	1430	540	12.5	960
			79-04-13	1100	510	13.0	975
			79-05-15	1315	196	21.5	988
			79-06-26	1400	2400	21.5	326
			79-08-01	1400	1020	28.0	429
			79-08-10	1300	1700	21.0	476
			79-08-30	1530	630	23.0	585
			79-10-01	1400	450	21.0	645
			79-12-03	1500	191	10.5	1160
30	381440104234200	SIXMILE CREEK AT MOUTH NEAR AVONDALE	80-04-15	1300	435	15.5	925
			76-04-23	0945	4.0	14.0	2300
			76-05-21	0830	3.2	14.5	2800
			76-06-17	1100	4.2	18.0	2330
			76-07-14	1430	2.6	27.0	2130
			76-08-10	1100	--	17.5	2400
			76-08-18	1345	2.9	25.0	2780
			76-09-15	1330	3.0	21.0	2300
			78-03-17	1200	3.2	12.0	2800
			78-04-20	1400	2.5	18.0	2350
			78-05-17	1400	2.1	20.0	2750
			78-06-22	1530	4.6	25.0	1990
			78-07-28	1330	2.3	27.5	1850
			78-08-25	1600	2.3	23.0	2300
			78-09-20	1330	2.0	15.0	2700
34	07116500	HUERFANO RIVER NEAR NEPESTA	76-04-23	1130	1.9	25.0	3420
			76-05-21	1015	.60	24.0	7000
			76-07-15	1200	3.9	28.0	1300
			76-09-17	1245	1.5	31.0	4630
35	381336104142400	ARKANSAS R AT ROCKY FORD HIGHLINE CANAL HEADGATE	76-04-22	1200	300	17.5	800

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
26	79-08-01	--	8.2	--	140	7.9	340	66	1100	950	170	--	--
	79-08-10	7.0	7.6	--	24	11	61	16	220	130	87	--	--
	79-08-31	10.3	8.1	--	140	6.6	390	120	1500	1300	180	--	--
	79-10-02	9.8	8.1	--	140	7.7	380	160	1600	1400	190	--	--
	79-12-05	13.6	8.2	--	160	6.3	390	140	1600	1400	190	--	--
29	76-04-22	7.2	7.7	6.8	41	--	83	27	320	170	149	182	0
	76-05-19	7.2	7.9	20	34	--	75	24	290	160	124	151	0
	76-06-18	6.7	7.5	15	18	--	44	12	160	79	80	98	0
	76-07-14	5.8	7.6	45	17	--	55	12	190	100	85	104	0
	76-08-18	6.7	7.8	10	25	--	73	17	250	160	83	107	0
	76-09-15	5.9	7.6	300	31	--	77	18	270	160	104	127	0
	79-04-10	7.8	7.9	--	68	4.6	78	30	320	170	150	--	--
	79-04-13	7.9	7.9	--	74	--	96	30	360	210	150	--	--
	79-05-15	6.6	7.7	--	68	--	100	32	380	240	140	--	--
	79-06-26	7.0	7.7	--	23	2.7	41	11	150	84	64	--	--
	79-08-01	--	8.7	--	18	2.6	45	12	160	84	78	--	--
	79-08-10	5.6	7.9	--	23	4.3	52	13	180	98	85	--	--
	79-08-30	6.8	7.9	--	34	2.9	61	18	230	130	98	--	--
	79-10-01	8.8	8.0	--	34	3.5	68	20	250	140	110	--	--
	79-12-03	--	7.9	--	82	5.8	110	38	430	260	170	--	--
	80-04-15	11.1	8.2	--	--	4.6	12	30	150	13	140	--	--
30	76-04-23	11.1	8.3	2.1	130	--	310	120	1300	1000	235	287	0
	76-05-21	9.8	8.0	45	140	--	320	140	1400	1200	223	272	0
	76-06-17	9.7	7.9	20	110	--	300	110	1200	990	208	254	0
	76-07-14	8.8	7.9	12	120	--	300	110	1200	990	214	261	0
	76-08-10	--	8.1	--	--	--	--	--	--	--	--	--	--
	76-08-18	8.8	8.1	25	140	--	360	130	1400	1200	192	234	0
	76-09-15	8.4	8.0	23	140	--	390	130	1500	1300	226	275	0
	78-03-17	12.4	8.1	--	--	--	--	--	--	--	--	--	--
	78-04-20	12.8	8.4	--	--	--	--	--	--	--	--	--	--
	78-05-17	8.8	8.1	--	--	--	--	--	--	--	--	--	--
	78-06-22	9.4	7.9	--	--	--	--	--	--	--	--	--	--
	78-07-28	7.1	8.4	--	--	--	--	--	--	--	--	--	--
	78-08-25	8.8	8.0	--	--	--	--	--	--	--	--	--	--
	78-09-20	9.9	7.9	--	--	--	--	--	--	--	--	--	--
34	76-04-23	7.4	8.3	6.2	370	--	260	200	1500	1200	252	307	0
	76-05-21	7.9	8.2	1.0	630	--	430	370	2600	2300	276	336	0
	76-07-15	6.2	8.1	26	160	--	130	79	650	500	152	185	0
	76-09-17	5.9	8.1	2.8	530	--	400	290	2200	1900	265	323	0
35	76-04-22	7.4	7.9	13	48	--	86	29	330	190	146	178	0

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
26	79-08-01	32	1200	.9	14	--	--	--	1900	10	--	.93	--
	79-08-10	7.4	200	.4	6.6	--	20	--	375	568	--	2.4	--
	79-08-31	40	1600	.9	9.6	--	--	--	2420	12	--	.97	--
	79-10-02	36	1700	1.0	11	--	--	--	2550	22	--	.85	--
	79-12-05	39	1500	1.0	8.3	--	--	--	2360	23	--	1.2	--
29	76-04-22	18	210	--	3.3	--	--	--	472	28	--	.59	--
	76-05-19	13	200	--	4.5	--	--	--	425	58	--	.53	--
	76-06-18	7.2	98	--	6.9	30	20	--	235	24	--	.44	--
	76-07-14	8.2	110	--	6.8	--	--	--	260	123	--	.29	--
	76-08-18	11	180	--	7.2	--	--	--	366	27	--	.63	--
	76-09-15	12	200	--	7.0	10	20	--	408	1210	--	2.6	--
	79-04-10	25	260	1.1	7.9	<0	<1	--	575	--	--	--	--
	79-04-13	30	320	1.1	7.5	--	30	--	--	588	--	1.4	--
	79-05-15	28	320	1.0	7.5	--	--	--	--	22	--	.73	--
	79-06-26	5.7	86	.5	9.5	--	100	--	217	248	--	--	--
	79-08-01	7.5	130	.5	8.5	--	--	--	271	92	--	.33	--
	79-08-10	7.7	150	.5	8.7	--	6	--	310	2640	--	4.3	--
	79-08-30	10	180	.6	8.2	--	--	--	370	38	--	.14	--
	79-10-01	10	200	.6	7.6	--	--	--	406	18	--	.94	--
	79-12-03	34	390	1.2	9.8	--	--	--	773	70	--	1.2	--
	80-04-15	--	--	--	--	<10	30	--	--	--	--	1.3	--
30	76-04-23	25	1200	--	16	--	--	--	1940	9	--	4.2	--
	76-05-21	25	1400	--	21	--	--	--	2180	28	--	.66	--
	76-06-17	21	1100	--	18	20	50	--	1780	93	--	.73	--
	76-07-14	25	1200	--	21	--	--	--	1900	50	--	.30	--
	76-08-10	26	--	--	--	--	--	2300	--	98	--	.80	--
	76-08-18	27	1400	--	22	--	--	--	2190	50	--	.65	--
	76-09-15	27	1500	--	23	10	50	--	2350	50	--	.69	--
	78-03-17	32	--	--	--	--	--	--	--	7	--	--	--
	78-04-20	27	--	--	--	--	--	--	--	20	--	--	--
	78-05-17	25	--	--	--	--	--	--	--	14	--	--	--
	78-06-22	19	--	--	--	--	--	--	--	30	--	--	--
	78-07-28	29	--	--	--	--	--	--	--	32	--	--	--
	78-08-25	31	--	--	--	--	--	--	--	21	--	--	--
	78-09-20	9.6	--	--	--	--	--	--	--	4	--	--	--
34	76-04-23	83	1900	--	7.8	--	--	--	2970	17	--	.44	--
	76-05-21	150	3400	--	12	--	--	--	5160	11	--	.41	--
	76-07-15	36	780	--	9.2	--	--	--	1290	45	--	.20	--
	76-09-17	98	2900	--	13	10	480	--	4390	0	--	.47	--
35	76-04-22	20	250	--	4.1	--	--	--	525	53	--	.71	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N)	NITRO-GEN, NITRITE TOTAL (MG/L AS N)	NITRO-GEN, NITRATE TOTAL (MG/L AS N)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N)	NITRO-GEN, TOTAL (MG/L AS N)	NITRO-GEN, DIS-SOLVED (MG/L AS N)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P)	PHOS-PHORUS, ORTHO, TOTAL (MG/L AS P)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P)
26	79-08-01	.87	--	.06	.26	9.1	--	9.4	10	--	--	--	--
	79-08-10	2.3	--	.06	.16	1.3	--	1.5	3.9	--	--	--	--
	79-09-31	.85	--	.12	.27	14	--	14	15	--	--	--	--
	79-10-02	.74	--	.11	.19	.44	--	.63	1.5	--	--	--	--
	79-12-05	1.1	--	.09	.18	6.9	--	7.1	8.3	--	--	--	--
29	76-04-22	.46	--	.13	--	--	--	1.9	2.5	--	--	--	--
	76-05-19	.53	--	.00	--	--	--	1.6	2.1	--	--	--	--
	76-06-18	.44	--	.00	--	--	--	1.2	1.6	--	--	--	--
	76-07-14	.24	--	.05	--	--	--	1.1	1.4	--	--	--	--
	76-08-18	.56	--	.07	--	--	--	1.3	1.9	--	--	--	--
	76-09-15	2.6	--	.02	--	--	--	1.5	4.1	--	--	--	--
	79-04-10	--	--	--	--	--	2.0	--	--	--	.35	--	.460
	79-04-13	1.3	--	.13	.16	2.1	--	2.3	3.7	--	--	--	--
	79-05-15	.45	--	.28	.30	1.5	--	1.8	2.5	--	--	--	--
	79-06-26	--	--	.02	.02	.53	--	.55	--	--	--	--	--
	79-08-01	.31	--	.02	.12	.59	--	.71	1.0	--	--	--	--
	79-08-10	4.3	--	.01	.18	1.0	--	1.2	5.5	--	--	--	--
	79-08-30	.05	--	.09	.16	.80	--	.96	1.1	--	--	--	--
	79-10-01	.92	--	.02	.06	1.6	--	1.7	2.6	--	--	--	--
	79-12-03	.78	--	.42	.10	2.8	--	2.9	4.1	--	--	--	--
	80-04-15	1.2	--	.15	.08	2.2	--	2.3	3.6	--	--	--	--
30	76-04-23	1.2	--	3.0	--	--	--	5.7	9.9	--	--	--	--
	76-05-21	.52	--	.14	--	--	--	4.8	5.5	--	--	--	--
	76-06-17	.66	--	.07	--	--	--	3.6	4.3	--	--	--	--
	76-07-14	.26	--	.04	--	--	--	4.2	4.5	--	--	--	--
	76-08-10	.77	--	.03	--	--	--	4.5	5.3	--	--	--	.020
	76-08-18	.65	--	.00	--	--	--	4.6	5.3	--	--	--	--
	76-09-15	.68	--	.01	--	--	--	5.4	6.1	--	--	--	--
	78-03-17	--	--	--	--	--	--	6.2	--	--	--	.00	--
	78-04-20	--	--	--	--	--	--	8.4	--	--	--	.02	--
	78-05-17	--	--	--	--	--	--	5.5	--	--	--	.01	--
	78-06-22	--	--	--	--	--	--	2.6	--	--	--	.01	--
	78-07-28	--	--	--	--	--	--	5.5	--	--	--	.02	--
	78-08-25	--	--	--	--	--	--	5.2	--	--	--	.00	--
	78-09-20	--	--	--	--	--	--	6.7	--	--	--	.00	--
34	76-04-23	.42	--	.02	--	--	--	.04	.48	--	--	--	--
	76-05-21	.35	--	.06	--	--	--	.01	.42	--	--	--	--
	76-07-15	.00	--	.22	--	--	--	.22	.42	--	--	--	--
	76-09-17	.45	--	.02	--	--	--	.11	.58	--	--	--	--
35	76-04-22	.68	--	.03	--	--	--	2.0	2.7	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOSPHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTOPLANKTON, TOTAL (CELLS PER ML)
26	79-08-01	--	2.0	--	100	1500	--	--	--
	79-08-10	--	13	--	K56000	K5600	--	--	--
	79-08-31	--	--	--	--	--	--	--	--
	79-10-02	--	1.7	--	160	100	--	--	--
	79-12-05	--	1.9	--	110	K150	--	--	--
29	76-04-22	.300	5.0	2600	--	2000	--	--	--
	76-05-19	.180	3.8	40	--	60	--	--	--
	76-06-18	.170	3.1	1100	--	420	--	--	--
	76-07-14	.230	2.4	2500	--	800	--	--	--
	76-08-18	.180	2.3	40	--	76	--	--	--
	76-09-15	.810	6.6	6300	--	4500	--	--	--
	79-04-10	--	--	--	--	--	--	--	--
	79-04-13	--	12	--	K3300	460	--	--	--
	79-05-15	--	3.2	--	560	K63	--	--	--
	79-06-26	--	6.5	--	290	280	--	--	--
	79-08-01	--	--	--	570	290	--	--	--
	79-08-10	--	16	--	30000	K22000	--	--	--
	79-08-30	--	2.0	--	78	300	--	--	--
	79-10-01	--	2.0	--	K35	46	--	--	--
	79-12-03	--	5.2	--	K37	96	--	--	--
30	80-04-15	.670	3.0	--	K3200	--	--	--	--
	76-04-23	.020	.6	84	--	76	--	--	--
	76-05-21	.020	.6	180	--	340	--	--	--
	76-06-17	.030	2.8	190	--	1400	--	--	--
	76-07-14	.040	2.0	>4000	--	1900	--	--	--
	76-08-10	.080	--	--	--	--	--	--	--
	76-08-18	.080	1.0	500	--	520	--	--	--
	76-09-15	.030	.9	720	--	1700	--	--	--
	78-03-17	.020	--	--	--	--	--	--	--
	78-04-20	.030	--	--	--	--	--	--	--
	78-05-17	.050	--	--	--	--	--	--	--
	78-06-22	.060	--	--	--	--	--	--	--
	78-07-28	.000	--	--	--	--	--	--	--
	78-08-25	.040	--	--	--	--	--	--	--
	78-09-20	.010	--	--	--	--	--	--	--
34	76-04-23	.030	1.2	K5	--	960	--	--	--
	76-05-21	.000	6.0	580	--	180	--	--	--
	76-07-15	.080	1.0	840	--	1400	--	--	--
	76-09-17	.000	.7	190	--	300	--	--	--
35	76-04-22	.300	2.0	420	--	96	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (-M-D)	TIME	STREAM-FLOW, INSTAN-TANEOUS (FT^3/S)	TEMPER-ATURE (DEG C)	SPE-CIFIC CON-DUCT-ANCE (MICRO-MHOS)
35	381336104142400	ARKANSAS R AT ROCKY FORD HIGHLINE CANAL HEADGATE	76-05-20	1000	1140	16.0	790
			76-06-18	0930	974	15.5	475
			76-07-15	1330	759	26.0	510
			76-08-19	0930	366	22.5	762
			76-09-17	1430	394	27.5	925
61	381317104135400	ARKANSAS RIVER BL ROCKY FORD HIGHLINE HEADGATE	79-04-13	1300	329	15.0	991
			79-05-15	1430	150	23.5	925
			79-06-27	1245	2180	17.5	400
			79-08-01	1045	479	21.0	490
			79-08-10	1405	1904	20.0	742
			79-08-31	1245	493	23.5	675
			79-10-01	1245	294	20.5	750
			79-12-03	1300	287	9.0	1210
37	07117000	ARKANSAS RIVER NEAR NEPESTA	76-04-22	1430	385	20.0	890
			76-05-20	1215	983	20.0	750
			76-06-18	1130	758	15.5	453
			76-07-15	1530	615	27.0	460
			76-08-19	1130	214	27.0	700
			76-09-15	1500	887	22.0	770
			79-04-11	1215	480	10.0	1000
			79-04-13	1430	417	17.0	1030
			79-05-15	1545	160	25.0	925
			79-06-27	1030	2180	19.0	436
			79-08-01	1230	480	24.0	490
			79-08-10	1525	2103	20.0	415
			79-08-31	1100	493	21.5	625
			79-10-01	1134	294	19.0	780
			79-12-03	1130	294	6.5	1200
			80-04-15	1030	417	16.0	1100

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	OXYGEN, DIS-SOLVED (MG/L)	PH (UNITS)	TUR-BID-ITY (NTU)	SODIUM, DIS-SOLVED (MG/L AS NA)	POTAS-SIUM, DIS-SOLVED (MG/L AS K)	CALCIUM DIS-SOLVED (MG/L AS CA)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG)	HARD-NESS (MG/L AS CACO3)	HARD-NESS, NONCAR-BONATE (MG/L CACO3)	ALKA-LINITY (MG/L AS CACO3)	BICAR-BONATE (MG/L AS HCO3)	CAR-BONATE (MG/L AS CO3)
35	76-05-20	7.0	7.7	30	38	--	79	27	310	184	126	153	0
	76-06-18	7.4	7.4	30	22	--	48	14	180	99	79	96	0
	76-07-15	6.3	7.8	65	25	--	63	16	220	130	93	113	0
	76-08-19	6.9	7.8	22	41	--	84	23	300	210	99	121	0
	76-09-17	6.0	7.8	37	53	--	99	31	370	250	123	150	0
61	79-04-13	7.9	7.9	--	75	--	100	32	380	240	140	--	--
	79-05-15	8.1	8.1	--	61	--	96	30	360	230	130	--	--
	79-06-27	7.6	7.7	--	25	2.7	45	14	170	89	81	--	--
	79-08-01	--	7.7	--	23	2.8	50	14	180	99	84	--	--
	79-08-10	5.9	7.8	--	46	8.2	78	20	280	190	90	--	--
	79-09-31	6.6	7.9	--	37	3.0	70	22	270	160	110	--	--
	79-10-01	7.5	8.0	--	39	3.9	77	25	300	180	120	--	--
	79-12-03	--	7.9	--	90	5.7	120	42	470	300	170	--	--
37	76-04-22	7.3	8.0	19	52	--	87	29	340	190	144	176	0
	76-05-20	7.0	7.9	25	37	--	76	25	290	170	121	148	0
	76-06-18	7.8	7.9	30	21	--	47	13	170	90	81	99	0
	76-07-15	6.2	7.9	120	22	--	48	14	180	84	94	114	0
	76-08-19	6.7	8.0	37	36	--	74	20	270	180	92	112	0
	76-09-15	6.2	7.6	2400	35	--	93	21	320	230	94	114	0
	79-04-11	9.3	7.8	--	74	4.3	82	30	330	190	140	--	--
	79-04-13	7.6	8.1	--	75	--	100	31	380	240	140	--	--
	79-05-15	7.0	8.3	--	61	--	94	29	350	220	130	--	--
	79-06-27	7.9	7.9	--	23	2.7	45	13	170	92	74	--	--
	79-08-01	--	7.8	--	23	3.0	50	29	240	160	84	--	--
	79-08-10	5.9	7.8	--	41	6.9	70	18	250	160	85	--	--
	79-08-31	9.1	8.1	--	39	3.1	68	21	260	160	100	--	--
	79-10-01	7.5	7.9	--	41	4.0	81	26	310	190	120	--	--
	79-12-03	--	8.1	--	91	5.5	120	43	480	310	170	--	--
	80-04-15	8.5	8.3	--	--	--	100	36	400	260	140	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHLORIDE, DISSOLVED (MG/L AS CL)	SULFATE DISSOLVED (MG/L AS SO4)	FLUORIDE, DISSOLVED (MG/L AS F)	SILICA, DISSOLVED (MG/L AS SIO2)	IRON, DISSOLVED (UG/L AS FE)	MANGANESE, DISSOLVED (UG/L AS MN)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L)	SOLIDS, RESIDUE AT 105 DEG. C, SUSPENDED (MG/L)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N)
35	76-05-20	15	230	--	4.9	--	--	--	469	117	--	.76	--
	76-06-18	8.0	130	--	7.1	20	10	--	276	87	--	.36	--
	76-07-15	9.1	170	--	6.9	--	--	--	346	276	--	.50	--
	76-08-19	16	250	--	7.9	--	--	--	482	57	--	.54	--
	76-09-17	22	310	--	8.6	0	20	--	598	621	--	.57	--
61	79-04-13	32	330	1.1	8.0	--	30	--	--	612	--	--	--
	79-05-15	23	300	.9	6.0	--	--	--	--	125	--	.54	--
	79-06-27	7.7	130	.5	16	--	130	--	290	368	--	--	--
	79-08-01	9.1	130	.5	8.9	--	--	--	289	368	--	.56	--
	79-08-10	13	280	.5	10	--	40	--	510	8020	--	2.8	--
	79-08-31	12	240	.7	9.1	--	--	--	460	63	--	.18	--
	79-10-01	12	250	.7	8.2	--	--	--	488	25	--	1.3	--
	79-12-03	36	430	1.1	14	--	--	--	837	1	--	1.4	--
37	76-04-22	21	260	--	3.8	--	--	--	540	58	--	.85	--
	76-05-20	15	230	--	4.8	--	--	--	461	272	--	.96	--
	76-06-18	8.1	110	--	7.2	20	10	--	255	63	--	.42	--
	76-07-15	9.3	120	--	6.9	--	--	--	276	389	--	.89	--
	76-08-19	16	220	--	7.8	--	--	--	429	72	--	.48	--
	76-09-15	11	260	--	8.1	20	10	--	484	3720	--	9.2	--
	79-04-11	27	290	1.0	8.1	<0	20	--	612	--	--	--	--
	79-04-13	31	330	1.2	7.9	--	10	--	--	816	--	--	--
	79-05-15	23	290	.9	5.8	--	--	--	--	113	--	.59	--
	79-06-27	8.5	130	.5	14	--	90	--	281	222	--	--	--
	79-08-01	9.0	160	.5	8.6	--	--	--	334	598	--	1.1	--
	79-08-10	5.0	150	.3	.5	--	3500	--	371	7760	--	3.8	--
	79-08-31	11	220	.7	9.2	--	--	--	432	11	--	.24	--
	79-10-01	13	260	.7	8.5	--	--	--	506	15	--	.95	--
	79-12-03	35	420	1.1	14	--	--	--	828	39	--	.98	--
	80-04-15	--	--	--	--	10	10	--	--	--	--	1.1	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE I	DATE OF SAMPLE (Y-M-D)	NITROGEN, ORGANIC TOTAL (MG/L AS N)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	NITROGEN, AMMONIA TOTAL (MG/L AS N)	NITROGEN, NITRITE TOTAL (MG/L AS N)	NITROGEN, NITRATE TOTAL (MG/L AS N)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	NITROGEN, TOTAL (MG/L AS N)	NITROGEN, DISSOLVED (MG/L AS N)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	PHOSPHORUS, DISSOLVED (MG/L AS P)
35	76-05-20	.70	--	.06	--	--	--	1.4	2.2	--	--	--	--
	76-06-18	.34	--	.02	--	--	--	1.3	1.7	--	--	--	--
	76-07-15	.45	--	.05	--	--	--	1.1	1.6	--	--	--	--
	76-08-19	.54	--	.00	--	--	--	1.4	1.9	--	--	--	--
	76-09-17	.55	--	.02	--	--	--	2.1	2.7	--	--	--	--
61	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-05-15	.51	--	.03	.06	1.4	--	1.5	2.0	--	--	--	--
	79-06-27	--	--	.01	.02	.68	--	.70	--	--	--	--	--
	79-08-01	.56	--	.00	.04	.87	--	.91	1.5	--	--	--	--
	79-08-10	2.8	--	.00	.10	1.8	--	1.9	4.7	--	--	--	--
	79-08-31	.14	--	.04	.08	1.3	--	1.4	1.6	--	--	--	--
	79-10-01	1.3	--	.02	.02	1.1	--	1.1	2.4	--	--	--	--
	79-12-03	.70	--	.70	.14	2.9	--	3.0	4.4	--	--	--	--
37	76-04-22	.83	--	.02	--	--	--	2.1	3.0	--	--	--	--
	76-05-20	.95	--	.01	--	--	--	1.4	2.4	--	--	--	--
	76-06-18	.41	--	.01	--	--	--	1.2	1.6	--	--	--	--
	76-07-15	.85	--	.04	--	--	--	1.1	2.0	--	--	--	--
	76-08-19	.48	--	.00	--	--	--	1.6	2.1	--	--	--	--
	76-09-15	9.2	--	.02	--	--	--	1.8	.11	--	--	--	--
	79-04-11	--	--	--	--	--	2.2	--	--	--	.41	--	.450
	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-05-15	.58	--	.01	.02	1.3	--	1.3	1.9	--	--	.25	--
	79-06-27	--	--	.01	.02	.78	--	.80	--	--	--	.09	--
	79-08-01	1.1	--	.00	.02	.92	--	.94	2.0	--	--	.14	--
	79-08-10	3.8	--	.00	.06	1.7	--	1.8	5.6	--	--	.07	--
	79-08-31	.22	--	.02	.06	1.2	--	1.3	1.5	--	--	.17	--
	79-10-01	.92	--	.03	.02	.00	--	.01	.96	--	--	.24	--
	79-12-03	.52	--	.46	.18	2.7	--	2.9	3.9	--	--	--	--
	80-04-15	1.0	--	.08	.04	2.5	--	2.5	3.6	--	--	--	--

Table 16.--*Water-quality field analyses and laboratory analyses of common chemical constituents, nutrients, bacteria, and biological constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PHOSPHORUS, TOTAL (MG/L AS P)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	COLIFORM, FECAL, 0.45 UM-MF (COLS./100 ML)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML)	PERIPHYTON BIOMASS TOTAL DRY WEIGHT G/SQ M	PERIPHYTON BIOMASS ASH WEIGHT G/SQ M	PHYTOPLANKTON, TOTAL (CELLS PER ML)
35	76-05-20	.320	12	200	--	260	--	--	--
	76-06-18	.200	2.1	930	--	520	--	--	--
	76-07-15	.340	1.3	4200	--	800	--	--	--
	76-08-19	.230	1.4	110	--	700	--	--	--
	76-09-17	.360	1.9	2400	--	540	--	--	--
61	79-04-13	--	16	--	48	450	--	--	--
	79-05-15	--	2.1	--	K1100	300	--	--	--
	79-06-27	--	13	--	K7600	870	--	--	--
	79-08-01	--	6.0	--	K600	K1000	--	--	--
	79-08-10	--	19	--	33000	55000	--	--	--
	79-08-31	--	--	--	160	150	--	--	--
	79-10-01	--	1.5	--	100	76	--	--	--
	79-12-03	--	5.1	--	K32	320	--	--	--
37	76-04-22	.330	2.0	K56	--	K28	--	--	--
	76-05-20	.370	12	240	--	230	--	--	--
	76-06-18	.190	1.5	90	--	380	--	--	--
	76-07-15	.460	1.7	5800	--	840	--	--	--
	76-08-19	.220	1.3	60	--	320	--	--	--
	76-09-15	2.00	>70	22000	--	41000	--	--	--
	79-04-11	--	--	--	--	--	--	--	--
	79-04-13	--	17	--	420	400	--	--	--
	79-05-15	--	2.3	--	96	110	--	--	--
	79-06-27	--	11	--	K7600	970	--	--	--
	79-08-01	--	8.0	--	K600	K1000	--	--	--
	79-08-10	--	20	--	38000	K120000	--	--	--
	79-08-31	--	--	--	170	140	--	--	--
	79-10-01	--	1.6	--	170	86	--	--	--
	79-12-03	--	4.1	--	<1	K10	--	--	--
	80-04-15	.660	12	--	K22	--	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*

EXPLANATION OF HEADING INFORMATION
UNITS: UG/L=MICROGRAM PER LITER; MG/L=MILLIGRAM PER LITER

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)
38	07097000	ARKANSAS RIVER AT PORTLAND	79-04-12	1000	4	0	--
			79-06-25	1130	4	0	--
			79-08-14	1300	3	1	--
			79-12-05	1415	--	2	0
			80-02-29	1415	--	--	--
			80-04-16	1345	--	1	1
			80-05-27	1245	--	--	--
39	07099200	ARKANSAS RIVER NEAR PORTLAND	76-06-15	1330	14	--	--
			76-09-14	1430	14	--	--
6	07099500	ARKANSAS RIVER NEAR PUEBLO	76-06-15	1530	3	--	--
			76-09-16	1330	4	--	--
			79-04-12	1345	3	--	--
			79-06-26	1230	4	--	--
			79-12-03	1400	--	--	--
			80-04-14	1215	--	--	--
			80-06-17	0900	--	--	--
12	381607104372500	ARKANSAS RIVER AT 4TH ST AT PUEBLO	79-04-12	1500	3	--	--
			79-06-26	1430	0	--	--
			79-12-03	1215	--	--	--
13	381516104362200	ARKANSAS RIVER AT SANTA FE AVE AT PUEBLO	79-04-12	1700	0	--	--
			79-06-26	1530	0	--	--
			79-12-03	1400	--	--	--
			80-04-14	1501	--	--	--
			80-06-17	1130	--	--	--
47	07106300	FOUNTAIN CREEK NEAR PINON	76-07-20	1415	--	--	--
			76-07-20	1115	--	--	--
			76-07-20	1200	--	--	--
			76-07-21	1230	--	--	--
			76-07-20	1315	--	--	--
			76-07-20	1345	--	--	--
			76-07-20	1415	--	--	--
			76-07-20	1445	--	--	--
			76-07-20	1515	--	--	--
			76-08-02	0940	--	--	--
			76-08-02	1100	--	--	--
			76-08-02	1240	--	--	--
			76-08-02	1400	--	--	--
			76-08-02	1530	--	--	--
			76-08-02	1830	--	--	--
			76-08-02	2015	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, HEXA-VALENT, DIS. (UG/L AS CR)
38	79-04-12	1	60	40	100	--	--	--	<1	0	0	0	--
	79-06-25	2	20	80	100	--	--	--	<1	2	3	10	--
	79-08-14	1	50	200	200	--	--	--	5	0	1	10	--
	79-12-05	2	50	300	300	--	--	--	<1	0	0	0	0
	80-02-29	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	2	60	40	100	<1	0	0	<1	0	0	0	--
	80-05-27	--	--	--	--	--	--	--	--	--	--	--	--
39	76-06-15	--	--	--	--	--	--	--	0	--	1	--	--
	76-09-14	--	--	--	--	--	--	--	0	--	<10	--	--
6	76-06-15	--	--	--	--	--	--	--	0	--	0	--	--
	76-09-16	--	--	--	--	--	--	--	0	--	<10	--	--
	79-04-12	1	--	--	--	--	--	--	--	--	0	--	--
	79-06-26	1	--	--	--	--	--	--	--	--	17	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-14	--	--	--	--	--	--	--	--	--	0	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	1	--	--
12	79-04-12	1	--	--	--	--	--	--	--	--	0	--	--
	79-06-26	1	--	--	--	--	--	--	--	--	0	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	0
13	79-04-12	1	--	--	--	--	--	--	--	--	0	--	--
	79-06-26	1	--	--	--	--	--	--	--	--	1	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-14	--	--	--	--	--	--	--	--	--	0	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	1	--	--
47	76-07-20	--	--	--	--	--	--	--	--	--	--	--	0
	76-07-23	--	--	--	--	--	--	--	--	--	--	--	0
	76-07-20	--	--	--	--	--	--	--	--	--	--	--	0
	76-07-20	--	--	--	--	--	--	--	--	--	--	--	0
	76-07-20	--	--	--	--	--	--	--	--	--	--	--	0
	76-07-20	--	--	--	--	--	--	--	--	--	--	--	0
	76-07-20	--	--	--	--	--	--	--	--	--	--	--	0
	76-07-20	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	CYANIDE DISSOLVED (MG/L AS CN)	CYANIDE TOTAL (MG/L AS CN)	IRON, DISSOLVED (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
38	79-04-12	0	0	<3	0	0	2	9	11	--	.04	130	870
	79-06-25	0	0	<3	2	5	11	47	58	--	--	60	3400
	79-08-14	0	0	<3	0	3	3	10	13	--	.00	20	7600
	79-12-05	0	0	<3	0	1	0	0	4	--	--	40	11000
	80-02-29	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	0	0	<3	0	0	0	4	4	.00	.00	30	460
	80-05-27	--	--	--	--	--	--	--	--	--	--	--	--
39	76-06-15	--	--	--	--	--	--	--	--	--	--	40	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	70	--
6	76-06-15	--	--	--	--	--	--	--	--	--	.00	50	--
	76-09-16	--	--	--	--	--	--	--	--	--	.00	10	--
	79-04-12	--	0	--	--	--	--	--	20	--	--	--	--
	79-06-26	--	0	--	--	--	--	--	0	--	--	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	2	--	.04	--	--
	80-06-17	--	--	--	--	--	--	--	8	--	.01	--	--
12	79-04-12	--	0	--	--	--	--	--	10	--	--	--	--
	79-06-26	--	0	--	--	--	--	--	0	--	--	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
13	79-04-12	--	10	--	--	--	--	--	0	--	.00	--	--
	79-06-26	--	0	--	--	--	--	--	0	--	.00	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	2	--	.04	--	--
	80-06-17	--	--	--	--	--	--	--	7	--	.04	--	--
47	76-07-20	--	--	--	--	--	--	--	540	--	--	40	--
	76-07-20	--	--	--	--	--	--	--	480	--	--	40	--
	76-07-20	--	--	--	--	--	--	--	370	--	--	40	--
	76-07-20	--	--	--	--	--	--	--	310	--	--	20	--
	76-07-20	--	--	--	--	--	--	--	260	--	--	30	--
	76-07-20	--	--	--	--	--	--	--	210	--	--	40	--
	76-07-20	--	--	--	--	--	--	--	180	--	--	50	--
	76-07-20	--	--	--	--	--	--	--	150	--	--	20	--
	76-07-20	--	--	--	--	--	--	--	130	--	--	50	--
	76-08-02	--	--	--	--	--	--	--	464	--	--	10	--
	76-08-02	--	--	--	--	--	--	--	394	--	--	10	--
	76-08-02	--	--	--	--	--	--	--	450	--	--	10	--
	76-08-02	--	--	--	--	--	--	--	468	--	--	20	--
	76-08-02	--	--	--	--	--	--	--	390	--	--	20	--
	76-08-02	--	--	--	--	--	--	--	300	--	--	60	--
	76-08-02	--	--	--	--	--	--	--	324	--	--	10	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
38	79-04-12	500	4	94	94	40	23	60	.0	.1	.1	--	--
	79-06-25	3900	1	71	72	10	280	290	.4	.1	.1	--	--
	79-08-14	7600	0	16	16	20	190	210	.4	.9	.9	--	--
	79-12-05	1100	0	9	9	30	50	80	.0	.0	.0	--	--
	80-02-29	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	490	0	2	2	20	60	80	.0	.1	.1	<10	4
	80-05-27	--	--	--	--	--	--	--	--	--	--	--	--
39	76-06-15	2000	--	--	--	20	--	110	--	--	--	--	--
	76-09-14	57000	--	--	--	10	--	2100	--	--	--	--	--
6	76-06-15	550	--	--	--	10	--	40	.1	--	.5	--	--
	76-09-16	100	--	--	--	30	--	50	.0	--	.0	--	--
	79-04-12	130	--	--	31	20	10	30	--	--	.1	--	--
	79-06-26	1000	--	--	18	9	40	50	--	--	.1	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	570	--	--	1	--	--	--	--	--	.4	--	--
	80-06-17	2700	--	--	25	--	--	--	--	--	.1	--	--
12	79-04-12	120	--	--	11	30	10	40	--	--	.1	--	--
	79-06-26	740	--	--	20	10	40	50	--	--	.0	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
13	79-04-12	130	--	--	20	20	20	40	--	--	.4	--	--
	79-06-26	880	--	--	18	10	30	40	--	--	.0	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	120	--	--	0	--	--	--	--	--	.1	--	--
	80-06-17	3000	--	--	26	--	--	--	--	--	.0	--	--
47	76-07-20	--	--	--	1300	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	1200	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	950	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	800	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	650	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	550	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	450	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	400	10	--	--	--	--	--	--	--
	76-07-20	--	--	--	300	10	--	--	--	--	--	--	--
	76-08-02	--	--	--	800	0	--	--	--	--	1.1	--	--
	76-08-02	--	--	--	650	10	--	--	--	--	1.1	--	--
	76-08-02	--	--	--	300	10	--	--	--	--	1.4	--	--
	76-08-02	--	--	--	860	20	--	--	--	--	1.2	--	--
	76-08-02	--	--	--	700	10	--	--	--	--	1.4	--	--
	76-08-02	--	--	--	700	20	--	--	--	--	.3	--	--
	76-08-02	--	--	--	400	20	--	--	--	--	1.3	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
38	79-04-12	--	--	5	1	1	2	0	--	0	--	--	--
	79-06-25	--	--	18	1	0	1	0	--	0	--	--	--
	79-08-14	--	--	6	1	1	2	0	--	0	--	--	--
	79-12-05	--	--	--	0	1	1	0	0	0	--	--	--
	80-02-29	--	--	--	--	--	--	--	--	--	--	7.2	--
	80-04-16	2	2	4	2	0	2	0	0	0	--	8.0	1.0
	80-05-27	--	--	--	--	--	--	--	--	0	--	--	--
39	76-06-15	--	--	--	2	--	--	0	--	0	--	--	--
	76-09-14	--	--	--	3	--	5	0	--	<10	--	--	--
6	76-06-15	--	--	--	2	--	3	0	--	0	--	--	--
	76-09-16	--	--	--	5	--	5	0	--	<10	--	--	--
	79-04-12	--	--	1	--	--	5	--	--	<0	--	--	--
	79-06-26	--	--	7	--	--	1	--	--	<0	--	--	--
	79-12-03	--	--	--	50	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
12	79-04-12	--	--	6	--	--	6	--	--	<0	--	--	--
	79-06-26	--	--	8	--	--	5	--	--	<0	--	--	--
	79-12-03	--	--	--	14	--	--	--	--	--	--	--	--
13	79-04-12	--	--	2	--	--	8	--	--	<0	--	--	--
	79-06-26	--	--	6	--	--	7	--	--	<0	--	--	--
	79-12-03	--	--	--	27	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
47	76-07-20	--	--	--	--	--	0	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	0	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	0	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	0	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	0	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	0	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	2	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	2	--	--	--	--	--	--
	76-07-20	--	--	--	--	--	2	--	--	--	--	--	--
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
38	79-04-12	10	40	50
	79-06-25	20	320	340
	79-08-14	5	110	110
	79-12-05	50	50	100
	80-02-29	--	--	--
	80-04-16	8	30	40
	80-05-27	--	--	--
39	76-06-15	--	--	--
	76-09-14	--	--	--
6	76-06-15	--	--	--
	76-09-16	--	--	--
	79-04-12	--	--	20
	79-06-26	--	--	50
	79-12-03	--	--	--
	80-04-14	--	--	30
	80-06-17	--	--	100
12	79-04-12	--	--	10
	79-06-26	--	--	50
	79-12-03	--	--	--
13	79-04-12	--	--	20
	79-06-26	--	--	50
	79-12-03	--	--	--
	80-04-14	--	--	10
	80-06-17	--	--	--
47	76-07-20	--	--	--
	76-07-20	--	--	--
	76-07-20	--	--	--
	76-07-20	--	--	--
	76-07-20	--	--	--
	76-07-20	--	--	--
	76-07-20	--	--	--
	76-07-20	--	--	--
	76-08-02	--	--	--
	76-08-02	--	--	--
	76-08-02	--	--	--
	76-08-02	--	--	--
	76-08-02	--	--	--
	76-08-02	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)
47	07106300	FOUNTAIN CREEK NEAR PINON	76-08-02	2130	--	--	--
			76-08-02	2300	--	--	--
			76-08-03	0030	--	--	--
			76-08-03	0230	--	--	--
			76-08-03	1115	--	--	--
			76-08-03	1430	--	--	--
			76-08-04	1000	--	--	--
			76-08-04	1445	--	--	--
			76-08-05	1430	--	--	--
			76-08-25	1430	--	--	--
			76-09-26	1130	--	--	--
			76-09-26	1345	--	--	--
			76-09-27	1445	--	--	--
			77-05-04	1250	--	--	--
			79-04-11	1730	0	--	--
			79-06-22	1600	0	--	--
			79-12-05	1400	--	--	--
			80-04-15	1430	--	--	--
			80-05-08	1730	--	--	--
			80-06-18	0900	--	--	--
16	381515104351900	FOUNTAIN CREEK AT MOUTH NEAR PUEBLO	76-09-14	1530	0	--	--
			79-04-11	1530	200	--	--
			79-06-27	1630	0	--	--
			79-08-27	1400	0	--	--
			79-12-03	1500	--	--	--
			80-04-15	1300	10	3	--
			80-06-18	1130	--	--	--
21	381547104330800	ARKANSAS RIVER NR 23D LANE NEAR PUEBLO	79-04-13	0900	0	--	--
			79-06-27	1530	8	--	--
			79-08-27	1200	0	--	--
			79-12-03	1600	--	--	--
23	381530104294600	ARKANSAS RIVER AT COLO HWY 233 AT BAXTER	76-06-16	1000	0	--	--
			76-09-17	0845	0	--	--
			80-04-16	1400	20	--	--
			80-06-17	1300	--	--	--
51	380347104591100	SQUIRREL CREEK NEAR BEULAH	79-04-10	1145	0	--	--
			79-06-21	1200	0	--	--
			79-12-04	1330	--	--	--
52	380343104590700	SOUTH CREEK NEAR BEULAH	79-04-10	1315	0	--	--
			79-06-21	1300	0	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, HEXA-VALENT, DIS. (UG/L AS CR)
47	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-03	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-03	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-03	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-03	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-04	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-04	--	--	--	--	--	--	--	--	--	--	--	0
	76-08-25	--	--	--	--	--	--	--	--	--	--	--	0
	76-09-26	--	--	--	--	--	--	--	--	--	--	--	0
	76-09-26	--	--	--	--	--	--	--	--	--	--	--	0
	76-09-27	--	--	--	--	--	--	--	--	--	--	--	0
	77-05-04	--	--	--	--	--	--	--	--	--	--	--	0
	79-04-11	24	--	--	--	--	--	--	--	--	2	--	0
	79-06-22	3	--	--	--	--	--	--	--	--	10	--	0
	79-12-05	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-15	--	--	--	--	--	--	0	--	--	1	0	0
	80-05-08	--	--	--	--	--	--	--	--	--	6	--	2
	80-06-18	--	--	--	--	--	--	0	--	--	1	0	0
16	76-09-14	--	--	--	--	--	--	--	0	--	<10	--	--
	79-04-11	42	--	--	--	--	--	--	--	--	5	--	--
	79-06-27	5	--	--	--	--	--	--	--	--	1	--	--
	79-08-27	33	--	--	--	--	--	--	--	--	5	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-15	--	--	--	--	<1	--	0	<1	--	1	0	0
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
21	79-04-13	5	--	--	--	--	--	--	--	--	1	--	--
	79-06-27	2	--	--	--	--	--	--	--	--	3	--	--
	79-08-27	12	--	--	--	--	--	--	--	--	1	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	0
23	76-06-16	--	--	--	--	--	--	--	0	--	3	--	--
	76-09-17	--	--	--	--	--	--	--	3	--	<10	--	--
	80-04-16	--	--	--	--	--	--	--	<1	--	0	0	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
51	79-04-10	0	--	--	--	--	--	--	--	--	0	--	--
	79-06-21	0	--	--	--	--	--	--	--	--	5	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	0	0
52	79-04-10	1	--	--	--	--	--	--	--	--	0	--	--
	79-06-21	0	--	--	--	--	--	--	--	--	0	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	CYANIDE DISSOLVED (MG/L AS CN)	CYANIDE TOTAL (MG/L AS CN)	IRON, DISSOLVED (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
47	76-08-02	--	--	--	--	--	--	--	280	--	--	20	--
	76-09-02	--	--	--	--	--	--	--	270	--	--	10	--
	76-08-03	--	--	--	--	--	--	--	610	--	--	70	--
	76-09-03	--	--	--	--	--	--	--	450	--	--	40	--
	76-08-03	--	--	--	--	--	--	--	230	--	--	80	--
	76-08-03	--	--	--	--	--	--	--	170	--	--	30	--
	76-08-04	--	--	--	--	--	--	--	100	--	--	80	--
	76-08-04	--	--	--	--	--	--	--	100	--	--	70	--
	76-08-05	--	--	--	--	--	--	--	60	--	--	10	--
	76-08-25	--	--	--	--	--	--	--	320	--	--	40	--
	76-09-26	--	--	--	--	--	--	--	290	--	--	30	--
	76-09-26	--	--	--	--	--	--	--	230	--	--	30	--
	76-09-27	--	--	--	--	--	--	--	220	--	--	60	--
	77-05-04	--	--	--	--	--	--	--	10	--	--	10	--
	79-04-11	--	60	--	--	--	--	--	130	--	--	--	--
	79-06-22	--	10	--	--	--	--	--	30	--	--	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	1	1	--	--	--	--	--	17	--	--	--	--
	80-05-08	--	--	--	--	--	--	--	230	--	--	--	--
	80-06-18	1	1	--	--	--	--	--	6	--	--	--	--
16	76-09-14	--	--	--	--	--	--	--	--	--	--	10	--
	79-04-11	--	100	--	--	--	--	--	260	--	.01	--	--
	79-06-27	--	10	--	--	--	--	--	70	--	.04	--	--
	79-08-27	--	140	--	--	--	--	--	250	--	.00	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	3	3	--	--	--	0	15	15	.00	--	<10	--
	80-06-18	--	--	--	--	--	--	--	--	.00	--	--	--
21	79-04-13	--	20	--	--	--	--	--	3.0	--	.01	--	--
	79-06-27	--	4	--	--	--	--	--	1.4	--	.00	--	--
	79-08-27	--	40	--	--	--	--	--	70	--	.04	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
23	76-06-16	--	--	--	--	--	--	--	--	.00	--	20	--
	76-09-17	--	--	--	--	--	--	--	--	--	.04	10	--
	80-04-16	5	5	--	--	--	3	7	14	.00	.01	<10	--
	80-06-17	--	--	--	--	--	--	--	--	.00	.04	--	--
51	79-04-10	--	10	--	--	--	--	--	0	--	--	--	--
	79-06-21	--	0	--	--	--	--	--	0	--	--	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
52	79-04-10	--	14	--	--	--	--	--	3	--	--	--	--
	79-06-21	--	14	--	--	--	--	--	4	--	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
47	76-08-02	--	--	--	660	20	--	--	--	--	.7	--	--
	76-05-02	--	--	--	500	20	--	--	--	--	.7	--	--
	76-08-03	--	--	--	860	10	--	--	--	--	.5	--	--
	76-08-03	--	--	--	540	10	--	--	--	--	.7	--	--
	76-08-03	--	--	--	100	20	--	--	--	--	.5	--	--
	76-08-03	--	--	--	300	10	--	--	--	--	.4	--	--
	76-08-04	--	--	--	200	10	--	--	--	--	.2	--	--
	76-08-04	--	--	--	200	10	--	--	--	--	.1	--	--
	76-08-05	--	--	--	100	0	--	--	--	--	.0	--	--
	76-08-25	--	--	--	600	10	--	--	--	--	.3	--	--
	76-09-26	--	--	--	600	0	--	--	--	--	--	--	--
	76-09-26	--	--	--	600	0	--	--	--	--	--	--	--
	76-09-27	--	--	--	400	10	--	--	--	--	--	--	--
	77-05-04	--	--	--	100	8	--	--	--	--	.0	--	--
	79-04-11	78000	--	--	5	20	2400	2400	--	--	.3	--	--
	79-06-22	2000	--	--	18	5	60	60	--	--	.1	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	9000	--	--	18	--	--	360	--	--	.1	--	--
	80-05-08	190000	--	--	220	--	--	5000	--	--	.7	--	--
	80-06-18	6100	--	--	12	--	--	200	--	--	.0	--	--
16	76-09-14	260	--	--	--	100	--	110	.0	--	.0	--	--
	79-04-11	110000	--	--	5	20	4900	4900	--	--	.7	--	--
	79-06-27	12000	--	--	43	10	320	330	--	--	.1	--	--
	79-09-27	--	--	--	360	--	--	4600	--	--	.4	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	9100	0	17	17	6	310	320	.0	.1	.1	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
21	79-04-13	14000	--	--	100	20	400	420	--	--	.1	--	--
	79-06-27	1600	--	--	21	70	0	70	--	--	.0	--	--
	79-08-27	--	--	--	90	--	--	1100	--	--	.2	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
23	76-06-16	620	--	--	--	20	--	50	--	--	--	--	--
	76-09-17	840	--	--	--	90	--	110	--	--	--	--	--
	80-04-16	2000	0	10	10	20	90	110	.0	.1	.1	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
51	79-04-10	110	--	--	8	<1	0	0	--	--	.1	--	--
	79-06-21	80	--	--	7	5	5	10	--	--	.4	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
52	79-04-10	120	--	--	6	<1	0	0	--	--	.1	--	--
	79-06-21	210	--	--	10	6	0	0	--	--	.4	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
47	76-05-02	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-02	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-03	--	--	--	--	--	11	--	--	--	--	--	--
	76-08-03	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-03	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-03	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-04	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-04	--	--	--	--	--	4	--	--	--	--	--	--
	76-08-05	--	--	--	--	--	3	--	--	--	--	--	--
	76-08-25	--	--	--	--	--	6	--	--	--	--	--	--
	76-09-26	--	--	--	--	--	11	--	--	--	--	--	--
	76-09-26	--	--	--	--	--	8	--	--	--	--	--	--
	76-09-27	--	--	--	--	--	14	--	--	--	--	--	--
	77-05-04	--	--	--	--	--	3	--	--	--	--	--	--
	79-04-11	--	--	96	--	--	10	--	--	1	--	--	--
	79-06-22	--	--	10	--	--	3	--	--	0	--	--	--
	79-12-05	--	--	--	0	--	--	--	--	--	--	--	--
	80-04-15	--	--	21	--	--	4	--	--	0	--	7.2	--
	80-05-08	--	--	--	--	--	--	--	--	2	--	--	--
	80-06-18	--	--	13	--	--	5	--	--	0	--	7.3	--
16	76-09-14	--	--	--	100	--	100	0	--	<10	--	--	--
	79-04-11	--	--	190	--	--	18	--	--	6	--	--	--
	79-06-27	--	--	14	--	--	20	--	--	0	--	--	--
	79-08-27	--	--	62	--	--	17	--	--	6	420	--	--
	79-12-03	--	--	--	18	--	--	--	--	--	--	--	--
	80-04-15	0	17	17	17	7	24	0	--	0	--	10	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	6.6	--
21	79-04-13	--	--	21	--	--	12	--	--	0	--	--	--
	79-06-27	--	--	11	--	--	3	--	--	0	--	--	--
	79-08-27	--	--	40	--	--	8	--	--	1	630	--	--
	79-12-03	--	--	--	14	--	--	--	--	--	--	--	--
23	76-06-16	--	--	--	7	--	--	0	--	0	--	--	--
	76-09-17	--	--	--	7	--	8	0	--	<10	--	--	--
	80-04-16	7	6	13	--	--	--	0	--	0	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
51	79-04-10	--	--	2	--	--	0	--	--	<0	--	--	--
	79-06-21	--	--	5	--	--	0	--	--	0	--	--	--
	79-12-04	--	--	--	1	--	--	--	--	--	--	--	--
52	79-04-10	--	--	0	--	--	1	--	--	<0	--	--	--
	79-06-21	--	--	5	--	--	0	--	--	<0	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
47	76-08-02	--	--	--
	76-08-02	--	--	--
	76-08-03	--	--	--
	76-08-03	--	--	--
	76-08-03	--	--	--
	76-08-03	--	--	--
	76-08-04	--	--	--
	76-08-04	--	--	--
	76-08-05	--	--	--
	76-08-25	--	--	--
	76-09-26	--	--	--
	76-09-26	--	--	--
	76-09-27	--	--	--
	77-05-04	--	--	--
	79-04-11	--	--	500
	79-06-22	--	--	50
	79-12-05	--	--	--
	80-04-15	--	--	80
	80-05-08	--	--	1000
	80-06-18	--	--	80
16	76-09-14	--	--	--
	79-04-11	--	--	860
	79-06-27	--	--	110
	79-08-27	--	--	1000
	79-12-03	--	--	--
	80-04-15	5	60	60
	80-05-18	--	--	--
21	79-04-13	--	--	160
	79-06-27	--	--	70
	79-08-27	--	--	280
	79-12-03	--	--	--
23	76-06-16	--	--	--
	76-09-17	--	--	--
	80-04-16	20	80	100
	80-06-17	--	--	--
51	79-04-10	--	--	10
	79-06-21	--	--	10
	79-12-04	--	--	--
52	79-04-10	--	--	20
	79-06-21	--	--	20

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)
52	380343104590700	SOUTH CREEK NEAR BEULAH	79-12-04	1200	--	--	--
53	380447104581000	MIDDLE CREEK NEAR BEULAH	79-04-13	1310	0	--	--
			79-06-21	1000	4	--	--
			79-12-04	0945	--	--	--
54	380411104571801	NORTH ST CHARLES R AT HWY 78 NR BEULAH	76-06-15	1000	4	--	--
			76-09-14	1330	20	--	--
			80-04-16	1000	--	--	--
			80-06-17	1000	--	--	--
55	380450104452900	ST. CHARLES R. AT CF&I STEEL DIVERSION	79-04-11	0930	0	--	--
			79-06-21	1500	0	--	--
			79-12-04	1510	--	--	--
			80-04-15	1400	--	--	--
			80-06-18	1030	--	--	--
56	07107900	GREENHORN CREEK NEAR RYE	79-04-09	1430	0	--	--
			79-06-20	1200	0	--	--
			79-12-04	1100	--	--	--
			80-04-14	1230	--	--	--
			80-06-17	1345	--	--	--
56A	375545104524800	COLD SPRING CREEK AT MOUTH NEAR RYE	79-04-09	1345	0	--	--
			79-06-20	1300	0	--	--
			79-12-04	1300	--	--	--
57	07108050	GREENHORN CREEK NEAR COLORADO CITY	76-06-17	1330	10	--	--
			76-09-16	1345	4	--	--
			79-04-09	1130	0	--	--
			79-06-23	1400	0	--	--
			79-12-04	1500	--	--	--
			80-04-14	1445	--	--	--
			80-06-17	1550	--	--	--
58	381130104341600	ST CHARLES R. AB POWER PLANT OUTFALL NEAR PUEBLO	79-04-11	1115	0	--	--
			79-06-21	1630	0	--	--
			79-12-05	0945	--	--	--
			80-04-15	1000	10	--	--
			80-06-13	1300	50	--	--
59	381202104324700	ST CHARLES R. BL POWER PLANT OUTFALL NEAR PUEBLO	79-04-11	1230	300	--	--
			79-06-22	1430	100	--	--
			79-12-05	1145	--	--	--
			80-04-15	1130	100	--	--
			80-06-18	1440	34	--	--
26	381556104273300	ST. CHARLES RIVER AT MOUTH NEAR VINELAND	76-06-16	1130	10	--	--
			76-09-17	1100	4	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, HEXA-VALENT, DIS. (UG/L AS CR)
52	79-12-04	--	--	--	--	--	--	--	--	--	--	0	0
53	79-04-10	1	--	--	--	--	--	--	--	--	4	--	--
	79-06-21	0	--	--	--	--	--	--	--	--	0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	0	0
54	76-06-15	--	--	--	--	--	--	--	0	--	4	--	--
	76-09-14	--	--	--	--	--	--	--	0	--	0	--	--
	80-04-16	--	--	--	--	--	--	--	--	--	1	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	1	--	--
55	79-04-11	1	--	--	--	--	--	--	--	--	1	--	--
	79-06-21	0	--	--	--	--	--	--	--	--	0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-15	--	--	--	--	--	--	--	--	--	0	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	1	--	--
56	79-04-09	1	--	--	--	--	--	--	--	--	0	--	--
	79-06-20	0	--	--	--	--	--	--	--	--	1	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-14	--	--	--	--	--	--	--	--	--	0	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	1	--	--
56A	79-04-09	1	--	--	--	--	--	--	--	--	1	--	--
	79-06-20	1	--	--	--	--	--	--	--	--	0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	0	0
57	76-06-17	--	--	--	--	--	--	--	0	--	0	--	--
	76-09-16	--	--	--	--	--	--	--	0	--	<10	--	--
	79-04-09	1	--	--	--	--	--	--	--	--	1	--	--
	79-06-20	1	--	--	--	--	--	--	--	--	0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-14	--	--	--	--	--	--	--	--	--	0	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	1	--	--
58	79-04-11	1	--	--	--	--	--	--	--	--	0	--	--
	79-06-21	1	--	--	--	--	--	--	--	--	0	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
59	79-04-11	2	--	--	--	--	--	--	--	--	0	--	--
	79-06-22	1	--	--	--	--	--	--	--	--	4	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
26	76-06-16	--	--	--	--	--	--	--	0	--	1	--	--
	76-09-17	--	--	--	--	--	--	--	0	--	<1.0	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	CYANIDE DISSOLVED (MG/L AS CN)	CYANIDE TOTAL (MG/L AS CN)	IRON, DISSOLVED (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
52	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
53	79-04-10	--	10	--	--	--	--	--	10	--	--	--	--
	79-06-21	--	10	--	--	--	--	--	0	--	--	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
54	76-06-15	--	--	--	--	--	--	--	--	--	--	10	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	20	--
	80-04-16	--	--	--	--	--	--	--	2	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	4	--	--	--	--
55	79-04-11	--	10	--	--	--	--	--	0	--	--	--	--
	79-06-21	--	0	--	--	--	--	--	0	--	--	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	--	--	--	--	8	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	3	--	--	--	--
56	79-04-09	--	0	--	--	--	--	--	30	--	--	--	--
	79-06-20	--	0	--	--	--	--	--	0	--	--	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	1	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	2	--	--	--	--
56A	79-04-09	--	0	--	--	--	--	--	0	--	--	--	--
	79-06-20	--	0	--	--	--	--	--	0	--	--	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
57	76-06-17	--	--	--	--	--	--	--	--	--	--	10	--
	76-09-16	--	--	--	--	--	--	--	--	--	--	0	--
	79-04-09	--	10	--	--	--	--	--	50	--	--	--	--
	79-06-20	--	0	--	--	--	--	--	10	--	--	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	2	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	2	--	--	--	--
58	79-04-11	--	10	--	--	--	--	--	10	--	--	--	--
	79-06-21	--	10	--	--	--	--	--	10	--	--	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	--	--	--	--	3	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	13	--	--	--	--
59	79-04-11	--	0	--	--	--	--	--	20	--	--	--	--
	79-06-22	--	10	--	--	--	--	--	0	--	--	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	--	--	--	--	3	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	15	--	--	--	--
26	76-06-16	--	--	--	--	--	--	--	--	--	--	20	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	10	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
52	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
53	79-04-10	250	--	--	72	2	6	10	--	--	.1	--	--
	79-06-21	570	--	--	280	7	20	30	--	--	.0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
54	76-06-15	340	--	--	--	20	--	40	--	--	--	--	--
	76-09-14	1300	--	--	--	40	--	120	--	--	--	--	--
	80-04-16	--	--	--	3	--	--	--	--	--	.1	--	--
	80-06-17	--	--	--	6	--	--	--	--	--	.2	--	--
55	79-04-11	880	--	--	6	20	30	50	--	--	.0	--	--
	79-06-21	810	--	--	7	10	30	40	--	--	.0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	5200	--	--	7	--	--	--	--	--	.1	--	--
	80-06-18	720	--	--	4	--	--	--	--	--	.3	--	--
56	79-04-09	100	--	--	6	1	9	10	--	--	.1	--	--
	79-06-20	160	--	--	120	3	0	0	--	--	.1	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	0	--	--	--	--	--	.1	--	--
	80-06-17	--	--	--	4	--	--	--	--	--	.4	--	--
56A	79-04-09	320	--	--	9	10	30	40	--	--	.1	--	--
	79-06-20	100	--	--	8	7	0	0	--	--	.0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
57	76-06-17	140	--	--	--	120	--	140	--	--	--	--	--
	76-09-16	270	--	--	--	240	--	250	--	--	--	--	--
	79-04-09	300	--	--	9	230	20	250	--	--	.1	--	--
	79-06-20	290	--	--	24	80	0	80	--	--	.0	--	--
	79-12-04	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	4	--	--	--	--	--	.1	--	--
	80-06-17	--	--	--	5	--	--	--	--	--	.2	--	--
58	79-04-11	340	--	--	16	40	20	60	--	--	.1	--	--
	79-06-21	260	--	--	12	20	10	30	--	--	.0	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	7	--	--	--	--	--	.1	--	--
	80-06-18	--	--	--	13	--	--	--	--	--	.2	--	--
59	79-04-11	230	--	--	34	40	20	60	--	--	.1	--	--
	79-06-22	100	--	--	11	40	10	50	--	--	.0	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	0	--	--	--	--	--	.0	--	--
	80-06-18	--	--	--	14	--	--	--	--	--	.2	--	--
26	76-06-16	790	--	--	--	290	--	370	--	--	--	--	--
	76-09-17	8300	--	--	--	240	--	440	--	--	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
52	79-12-04	--	--	--	0	--	--	--	--	--	--	--	--
53	79-04-10	--	--	3	--	--	1	--	--	<0	--	--	--
	79-06-21	--	--	6	--	--	0	--	--	<0	--	--	--
	79-12-04	--	--	--	0	--	--	--	--	--	--	--	--
54	76-06-15	--	--	--	0	--	--	0	--	0	--	--	--
	76-09-14	--	--	--	1	--	1	0	--	0	--	--	--
	80-04-16	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
55	79-04-11	--	--	3	--	--	1	--	--	<0	--	--	--
	79-06-21	--	--	6	--	--	1	--	--	<0	--	--	--
	79-12-04	--	--	--	1	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	--	--	--	--	--	--	--
56	79-04-09	--	--	2	--	--	0	--	--	<0	--	--	--
	79-06-20	--	--	7	--	--	0	--	--	<0	--	--	--
	79-12-04	--	--	--	0	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
56A	79-04-09	--	--	4	--	--	6	--	--	<0	--	--	--
	79-06-20	--	--	5	--	--	3	--	--	<0	--	--	--
	79-12-04	--	--	--	5	--	--	--	--	--	--	--	--
57	76-06-17	--	--	--	5	--	--	0	--	0	--	--	--
	76-09-16	--	--	--	9	--	11	0	--	<10	--	--	--
	79-04-09	--	--	6	--	--	20	--	--	<0	--	--	--
	79-06-20	--	--	8	--	--	6	--	--	<0	--	--	--
	79-12-04	--	--	--	1	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
58	79-04-11	--	--	8	--	--	43	--	--	<0	--	--	--
	79-06-21	--	--	9	--	--	26	--	--	<0	--	--	--
	79-12-05	--	--	--	280	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	--	--	54	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	9	--	--	--	--	--	--
59	79-04-11	--	--	7	--	--	32	--	--	<0	--	--	--
	79-06-22	--	--	9	--	--	28	--	--	<0	--	--	--
	79-12-05	--	--	--	24	--	--	--	--	--	--	--	--
	80-04-15	--	--	--	--	--	36	--	--	--	--	--	--
	80-06-18	--	--	--	--	--	11	--	--	--	--	--	--
26	76-06-16	--	--	--	15	--	--	0	--	0	--	--	--
	76-09-17	--	--	--	12	--	20	0	--	10	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
52	79-12-04	--	--	--
53	79-04-10	--	--	40
	79-06-21	--	--	30
	79-12-04	--	--	--
54	76-06-15	--	--	--
	76-09-14	--	--	--
	80-04-16	--	--	--
	80-06-17	--	--	--
55	79-04-11	--	--	20
	79-06-21	--	--	10
	79-12-04	--	--	--
	80-04-15	--	--	--
	80-06-18	--	--	--
56	79-04-09	--	--	30
	79-06-20	--	--	20
	79-12-04	--	--	--
	80-04-14	--	--	--
	80-06-17	--	--	--
56A	79-04-09	--	--	20
	79-06-20	--	--	10
	79-12-04	--	--	--
57	76-06-17	--	--	--
	76-09-16	--	--	--
	79-04-09	--	--	50
	79-06-20	--	--	30
	79-12-04	--	--	--
	80-04-14	--	--	--
	80-06-17	--	--	--
58	79-04-11	--	--	20
	79-06-21	--	--	30
	79-12-05	--	--	--
	80-04-15	--	--	60
	80-06-18	--	--	20
59	79-04-11	--	--	130
	79-06-22	--	--	20
	79-12-05	--	--	--
	80-04-15	--	--	120
	80-06-18	--	--	140
26	76-06-16	--	--	--
	76-09-17	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	ALUMINUM, DISSOLVED (UG/L AS AL)	ARSENIC DISSOLVED (UG/L AS AS)	ARSENIC SUSPENDED TOTAL (UG/L AS AS)
26	381556104273300	ST. CHARLES RIVER AT MOUTH NEAR VINELAND	79-04-11	1400	0	--	--
			79-04-11	1410	--	--	--
			79-06-22	1300	0	--	--
			79-08-10	1155	0	--	--
			79-12-05	1500	--	--	--
29	07109500	ARKANSAS RIVER NEAR AVONDALE	76-06-18	1315	70	--	--
			76-09-15	1100	50	--	--
			79-04-13	1100	0	--	--
			79-06-26	1400	20	--	--
			79-08-10	1300	0	--	--
			79-12-03	1500	--	--	--
			80-04-15	1300	10	--	--
			80-06-17	1430	--	--	--
30	381440104234200	SIXMILE CREEK AT MOUTH NEAR AVONDALE	76-06-17	1100	20	--	--
			76-09-15	1330	0	--	--
34	07116500	HUERFANO RIVER NEAR NEPESTA	76-09-17	1245	0	--	--
35	381336104142400	ARKANSAS R AT ROCKY FORD HIGHLINE CANAL HEADGATE	76-06-18	0930	20	--	--
			76-09-17	1430	20	--	--
61	381317104135400	ARKANSAS RIVER BL ROCKY FORD HIGHLINE HEADGATE	79-04-13	1300	100	--	--
			79-06-27	1245	20	--	--
			79-08-10	1405	600	--	--
			79-12-03	1300	--	--	--
37	07117000	ARKANSAS RIVER NEAR NEPESTA	76-06-18	1130	70	--	--
			76-09-15	1500	20	--	--
			79-04-13	1430	0	--	--
			79-06-27	1030	10	--	--
			79-08-10	1525	25000	--	--
			79-12-03	1130	--	--	--
			80-04-15	1030	34	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ARSENIC TOTAL (UG/L AS AS)	BARIUM, DIS-SOLVED (UG/L AS BA)	BARIUM, SUS-PENDED RECOV-ERABLE (UG/L AS BA)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE)	BERYL-LIUM, SUS-PENDED RECOV. (UG/L AS BE)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE)	CADMIUM DIS-SOLVED (UG/L AS CD)	CADMIUM SUS-PENDED RECOV-ERABLE (UG/L AS CD)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR)	CHRO-MIUM, HEXA-VALENT, DIS. (UG/L AS CR)
26	79-04-11	1	--	--	--	--	--	--	--	--	0	--	--
	79-04-11	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-22	2	--	--	--	--	--	--	--	--	0	--	--
	79-08-10	5	--	--	--	--	--	--	--	--	2	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	0	0
29	76-06-18	--	--	--	--	--	--	--	0	--	0	--	--
	76-09-15	--	--	--	--	--	--	--	0	--	<10	--	--
	79-04-13	5	--	--	--	--	--	--	--	--	1	--	--
	79-06-26	2	--	--	--	--	--	--	--	--	1	--	--
	79-08-10	7	--	--	--	--	--	--	--	--	2	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-15	--	--	--	--	--	--	--	<1	--	0	0	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
30	76-06-17	--	--	--	--	--	--	--	0	--	0	--	--
	76-09-15	--	--	--	--	--	--	--	0	--	<10	--	--
34	76-09-17	--	--	--	--	--	--	--	0	--	10	--	--
35	76-06-18	--	--	--	--	--	--	--	0	--	1	--	--
	76-09-17	--	--	--	--	--	--	--	0	--	<10	--	--
61	79-04-13	6	--	--	--	--	--	--	--	--	1	--	--
	79-06-27	3	--	--	--	--	--	--	--	--	1	--	--
	79-08-10	18	--	--	--	--	--	--	--	--	3	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	4
37	76-06-18	--	--	--	--	--	--	--	0	--	0	--	--
	76-09-15	--	--	--	--	--	--	--	0	--	30	--	--
	79-04-13	7	--	--	--	--	--	--	--	--	1	--	--
	79-06-27	3	--	--	--	--	--	--	--	--	1	--	--
	79-08-10	13	--	--	--	--	--	--	--	--	4	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	0	0
	80-04-15	--	--	--	--	--	--	--	<1	--	0	0	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	COBALT, DISSOLVED (UG/L AS CO)	COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	COBALT, TOTAL RECOVERABLE (UG/L AS CO)	COPPER, DISSOLVED (UG/L AS CU)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	COPPER, TOTAL RECOVERABLE (UG/L AS CU)	CYANIDE DISSOLVED (MG/L AS CN)	CYANIDE TOTAL (MG/L AS CN)	IRON, DISSOLVED (UG/L AS FE)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE)
26	79-04-11	--	0	--	--	--	--	--	20	--	--	--	--
	79-04-11	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-22	--	10	--	--	--	--	--	0	--	--	--	--
	79-08-10	--	10	--	--	--	--	--	30	--	--	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
29	76-06-18	--	--	--	--	--	--	--	--	--	--	30	--
	76-09-15	--	--	--	--	--	--	--	--	--	.01	10	--
	79-04-13	--	20	--	--	--	--	--	30	--	--	--	--
	79-06-26	--	10	--	--	--	--	--	30	--	--	--	--
	79-08-10	--	70	--	--	--	--	--	90	--	--	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	4	4	--	--	--	1	8	9	--	.01	<10	--
	80-06-17	--	--	--	--	--	--	--	--	.00	.00	--	--
30	76-06-17	--	--	--	--	--	--	--	--	--	--	20	--
	76-09-15	--	--	--	--	--	--	--	--	--	--	10	--
34	76-09-17	--	--	--	--	--	--	--	--	--	--	10	--
35	76-06-18	--	--	--	--	--	--	--	--	--	--	20	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	0	--
61	79-04-13	--	20	--	--	--	--	--	40	--	--	--	--
	79-06-27	--	10	--	--	--	--	--	20	--	--	--	--
	79-08-10	--	140	--	--	--	--	--	210	--	--	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
37	76-06-18	--	--	--	--	--	--	--	--	--	--	20	--
	76-09-15	--	--	--	--	--	--	--	--	--	.00	20	--
	79-04-13	--	20	--	--	--	--	--	50	--	.00	--	--
	79-06-27	--	10	--	--	--	--	--	20	--	.01	--	--
	79-08-10	--	110	--	--	--	--	--	210	--	.01	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	7	7	--	--	--	2	8	10	--	--	10	3100

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE)	LEAD, DIS-SOLVED (UG/L AS PB)	LEAD, SUS-PENDED RECOV-ERABLE (UG/L AS PB)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB)	MANGA-NESE, DIS-SOLVED (UG/L AS MN)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN)	MERCURY DIS-SOLVED (UG/L AS HG)	MERCURY SUS-PENDED RECOV-ERABLE (UG/L AS HG)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO)
26	79-04-11	490	--	--	14	220	20	240	--	--	.1	--	--
	79-04-11	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-22	2000	--	--	8	420	100	520	--	--	.0	--	--
	79-08-10	23000	--	--	58	20	310	330	--	--	.1	--	--
	79-12-05	--	--	--	--	--	--	--	--	--	--	--	--
29	76-06-18	1000	--	--	--	20	--	40	.0	--	.0	--	--
	76-09-15	26000	--	--	--	20	--	690	.0	--	.0	--	--
	79-04-13	15000	--	--	65	30	400	430	--	--	.1	--	--
	79-06-26	6800	--	--	160	100	130	230	--	--	.1	--	--
	79-08-10	73000	--	--	78	6	1700	1700	--	--	.2	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	1800	0	10	10	30	90	120	.0	.1	.1	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
30	76-06-17	1500	--	--	--	50	--	80	--	--	--	--	--
	76-09-15	1300	--	--	--	50	--	90	--	--	--	--	--
34	76-09-17	170	--	--	--	480	--	500	--	--	--	--	--
35	76-06-18	3100	--	--	--	10	--	100	--	--	--	--	--
	76-09-17	3000	--	--	--	20	--	120	--	--	--	--	--
61	79-04-13	20000	--	--	42	30	510	540	--	--	.1	--	--
	79-06-27	9400	--	--	31	130	140	270	--	--	.0	--	--
	79-08-10	170000	--	--	160	40	4300	4300	--	--	.3	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
37	76-06-18	2800	--	--	--	10	--	80	.0	--	.0	--	--
	76-09-15	150000	--	--	--	10	--	3000	.0	--	.3	--	--
	79-04-13	22000	--	--	56	10	630	640	--	--	.3	--	--
	79-06-27	7300	--	--	89	90	130	220	--	--	.1	--	--
	79-08-10	170000	--	--	200	3500	600	4100	--	--	.3	--	--
	79-12-03	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-15	3100	0	10	10	10	120	130	.0	.1	.1	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	NICKEL, DIS-SOLVED (UG/L AS NI)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI)	SELE-NIUM, DIS-SOLVED (UG/L AS SE)	SELE-NIUM, SUS-PENDED TOTAL (UG/L AS SE)	SELE-NIUM, TOTAL (UG/L AS SE)	SILVER, DIS-SOLVED (UG/L AS AG)	SILVER, SUS-PENDED RECOV-ERABLE (UG/L AS AG)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG)	STRON-TIUM, DIS-SOLVED (UG/L AS SR)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L)	VANA-DIUM, DIS-SOLVED (UG/L AS V)
26	79-04-11	--	--	2	--	--	38	--	--	--	--	--	--
	79-04-11	--	--	--	--	--	--	--	--	<0	--	--	--
	79-06-22	--	--	11	--	--	27	--	--	<0	--	--	--
	79-08-10	--	--	21	--	--	13	--	--	0	--	--	--
	79-12-05	--	--	--	130	--	--	--	--	--	--	--	--
29	76-05-18	--	--	--	2	--	--	0	--	1	--	--	--
	76-09-15	--	--	--	1	--	8	0	--	<10	--	--	--
	79-04-13	--	--	21	--	--	10	--	--	0	--	--	--
	79-06-26	--	--	24	--	--	3	--	--	0	--	--	--
	79-08-10	--	--	66	--	--	9	--	--	0	--	--	--
	79-12-03	--	--	--	0	--	--	--	--	--	--	--	--
	80-04-15	4	9	13	--	--	--	<0	--	0	--	12	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	4.6	--
30	76-06-17	--	--	--	9	--	--	0	--	0	--	--	--
	76-09-15	--	--	--	21	--	23	0	--	10	--	--	--
34	76-09-17	--	--	--	2	--	4	0	--	<10	--	--	--
35	76-06-18	--	--	--	3	--	--	0	--	0	--	--	--
	76-09-17	--	--	--	7	--	7	0	--	<10	--	--	--
61	79-04-13	--	--	26	--	--	14	--	--	0	--	--	--
	79-06-27	--	--	15	--	--	8	--	--	0	--	--	--
	79-08-10	--	--	160	--	--	14	--	--	1	--	--	--
	79-12-03	--	--	--	0	--	--	--	--	--	--	--	--
37	76-06-18	--	--	--	3	--	--	0	--	1	--	--	--
	76-09-15	--	--	--	6	--	11	0	--	10	--	--	--
	79-04-13	--	--	30	--	--	12	--	--	0	--	--	--
	79-06-27	--	--	13	--	--	5	--	--	0	--	--	--
	79-08-10	--	--	150	--	--	16	--	--	0	--	--	--
	79-12-03	--	--	--	8	--	--	--	--	--	--	--	--
	80-04-15	7	4	11	--	--	--	0	--	0	--	--	--

Table 17.--*Water-quality laboratory analyses of trace chemical constituents*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	ZINC, DIS-SOLVED (UG/L AS ZN)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN)
26	79-04-11	--	--	30
	79-04-11	--	--	--
	79-06-22	--	--	30
	79-08-10	--	--	140
	79-12-05	--	--	--
29	76-06-18	--	--	--
	76-09-15	--	--	--
	79-04-13	--	--	170
	79-06-26	--	--	110
	79-08-10	--	--	380
	79-12-03	--	--	--
	80-04-15	20	50	70
	80-06-17	--	--	--
30	76-06-17	--	--	--
	76-09-15	--	--	--
34	76-09-17	--	--	--
35	76-06-18	--	--	--
	76-09-17	--	--	--
61	79-04-13	--	--	190
	79-06-27	--	--	110
	79-08-10	--	--	870
	79-12-03	--	--	--
37	76-06-18	--	--	--
	76-09-15	--	--	--
	79-04-13	--	--	250
	79-06-27	--	--	120
	79-08-10	--	--	970
	79-12-03	--	--	--
	80-04-15	20	60	80

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*

EXPLANATION OF HEADING INFORMATION
UNITS: PCI/L=PICOCURIE PER LITER; UG/L=MICROGRAM PER LITER

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)
38	07097000	ARKANSAS RIVER AT PORTLAND	79-04-12	1000	--	--	--
			79-08-14	1300	--	--	--
			80-02-29	1415	8.2	.3	3.6
			80-04-16	1345	12	<.3	4.1
39	07099200	ARKANSAS RIVER NEAR PORTLAND	76-06-15	1330	--	--	--
			76-09-14	1030	--	--	--
6	07099500	ARKANSAS RIVER NEAR PUEBLO	76-06-15	1530	--	--	--
			76-09-16	1030	--	--	--
			80-06-17	0900	--	--	--
13	381516104362200	ARKANSAS RIVER AT SANTA FE AVE AT PUEBLO	79-04-12	1700	--	--	--
			79-06-26	1530	--	--	--
			80-04-14	1500	--	--	--
			80-06-17	1130	--	--	--
47	07106300	FOUNTAIN CREEK NEAR PINON	76-09-26	1130	--	--	--
			76-09-27	1445	--	--	--
			80-04-15	1330	10	14	13
			80-06-18	0900	<6.2	22	7.2
16	381515104351900	FOUNTAIN CREEK AT MOUTH NEAR PUEBLO	76-09-14	1530	--	--	--
			79-04-11	1530	--	--	--
			79-06-27	1630	--	--	--
			79-08-27	1000	--	--	--
			80-04-15	1300	14	8.6	10
			80-06-18	1130	11	12	7.3
21	381547104330800	ARKANSAS RIVER NR 23D LANE NEAR PUEBLO	79-04-13	0900	--	--	--
			79-06-27	1530	--	--	--
			79-08-27	1200	--	--	--
23	381530104294600	ARKANSAS RIVER AT COLO HWY 233 AT BAXTER	76-06-16	1000	--	--	--
			76-09-17	0845	--	--	--
			80-04-16	1400	--	--	--
			80-06-17	1300	--	--	--
54	380411104571801	NORTH ST CHARLES R AT HWY 78 NR BEULAH	76-06-15	1000	--	--	--
			76-09-14	1330	--	--	--
57	07108050	GREENHORN CREEK NEAR COLORADO CITY	76-06-17	1330	--	--	--
			76-09-16	1345	--	--	--
26	381556104273300	ST. CHARLES RIVER AT MOUTH NEAR VINELAND	76-06-16	1130	--	--	--
			76-09-17	1100	--	--	--
			79-08-14	1155	--	--	--
			80-04-15	1615	--	--	--
29	07109500	ARKANSAS RIVER NEAR AVONDALE	76-06-18	1315	--	--	--
			76-09-15	1100	--	--	--

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RA-226, DIS-SOLVED, PLAN-CHET COUNT (PCI/L)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	ALDRIN, DIS-SOLVED (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, DIS-SOLVED (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, DIS-SOLVED (UG/L)	DDD, TOTAL (UG/L)	DDE, DIS-SOLVED (UG/L)	DDE, TOTAL (UG/L)	DDT, DIS-SOLVED (UG/L)
38	79-04-12	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-14	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	84-02-29	.9	--	.12	--	--	--	--	--	--	--	--	--
	80-04-16	.9	<.1	.08	--	--	--	--	--	--	--	--	--
39	76-06-15	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
6	76-06-15	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	76-09-16	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
13	79-04-12	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-26	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
47	76-09-26	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	76-09-27	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	80-04-15	12	--	.11	--	--	--	--	--	--	--	--	--
	80-06-18	21	--	.11	.00	.00	.0	.0	.00	.00	.00	.00	.00
16	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
	79-04-11	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-27	--	--	--	--	.00	--	.2	--	.02	--	.04	--
	80-04-15	10	--	.10	.00	.00	.0	.0	.00	.00	.00	.00	.00
	80-06-18	12	--	.09	.00	.00	.0	.0	.00	.00	.00	.00	.00
21	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-27	--	--	--	--	.00	--	.0	--	.00	--	.00	--
23	76-06-16	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	--	--	--	.00	.00	.0	.0	.00	.00	.00	.00	.00
	80-06-17	--	--	--	.00	.00	.0	.0	.00	.00	.00	.00	.00
54	76-06-15	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
57	76-06-17	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-16	--	--	--	--	--	--	--	--	--	--	--	--
26	76-06-16	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-10	--	--	--	--	.00	--	.0	--	.00	--	.01	--
	80-04-15	--	--	--	.00	.00	.0	.0	.00	.00	.00	.00	.00
29	76-06-18	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-15	--	--	--	--	--	--	--	--	--	--	--	--

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	DDT, TOTAL (UG/L)	DI-AZINON, DIS-SOLVED (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN DIS-SOLVED (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, DIS-SOLVED (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, DIS-SOLVED (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE DIS-SOLVED (UG/L)
38	79-04-12	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-14	.00	--	.03	--	.00	.01	--	.04	.00	--	.00	--
	80-02-29	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	--	--	--	--	--	--	--	--	--	--	--	--
39	76-06-15	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
6	76-06-15	.00	--	--	--	.00	--	--	.04	--	--	.00	--
	76-09-16	.00	--	--	--	.00	--	--	.00	--	--	.00	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
13	79-04-12	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-26	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
47	76-09-26	.01	--	--	--	.00	--	--	.00	--	--	.00	--
	76-09-27	.01	--	--	--	.00	--	--	.04	--	--	.00	--
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	.00	.02	.02	.00	.00	.00	.00	.04	.00	.00	.00	.00
16	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
	79-04-11	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-09-27	.04	--	.04	--	.00	.00	--	.00	.00	--	.00	--
	80-04-15	.00	.01	.02	.00	.04	.04	.00	.00	.00	.00	.00	.00
	80-06-18	.00	.01	.01	.00	.00	.00	.00	.00	.00	.04	.00	.00
21	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-09-27	.01	--	.04	--	.00	.00	--	.00	.00	--	.00	--
23	76-06-16	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	.00	.01	.02	.00	.00	.00	.00	.00	.00	.04	.00	.04
	80-06-17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.04	.00	.00
54	76-06-15	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
57	76-06-17	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-16	--	--	--	--	--	--	--	--	--	--	--	--
26	76-06-16	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-10	.01	--	.16	--	.02	.00	--	.04	.00	--	.00	--
	80-04-15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.01	.00	.00
29	76-06-18	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-15	--	--	--	--	--	--	--	--	--	--	--	--

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE DISSOLVED (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, DISSOLVED (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, DISSOLVED (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, DISSOLVED (UG/L)	MIREX, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)
38	79-04-12	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-14	.00	--	.00	--	.01	--	--	.00	.00	--	.00	--
	80-02-29	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	--	--	--	--	--	--	--	--	--	--	--	--
39	76-06-15	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
6	76-06-15	.00	--	.00	--	--	--	--	--	--	--	--	.00
	76-09-16	.00	--	.00	--	--	--	--	--	--	--	--	.00
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
13	79-04-12	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-26	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-14	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-17	--	--	--	--	--	--	--	--	--	--	--	--
47	76-09-26	.00	--	.00	--	--	--	--	--	--	--	--	.00
	76-09-27	.00	--	.00	--	--	--	--	--	--	--	--	.00
	80-04-15	--	--	--	--	--	--	--	--	--	--	--	--
	80-06-18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
16	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
	79-04-11	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-27	.00	--	.01	--	.00	.00	--	.00	.00	--	.00	--
	80-04-15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	80-06-18	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
21	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-27	.00	--	.00	--	.25	.00	--	.00	.00	--	.00	--
23	76-06-16	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
	80-04-16	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	80-06-17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
54	76-06-15	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-14	--	--	--	--	--	--	--	--	--	--	--	--
57	76-06-17	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-16	--	--	--	--	--	--	--	--	--	--	--	--
26	76-06-16	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-10	.00	--	.01	--	.14	--	--	.00	.00	--	.00	--
	80-04-15	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
29	76-06-18	--	--	--	--	--	--	--	--	--	--	--	--
	76-09-15	--	--	--	--	--	--	--	--	--	--	--	--

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PARATHION, DISSOLVED (UG/L)	PARATHION, TOTAL (UG/L)	PCB, DISSOLVED (UG/L)	PCB, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	PHENOLS (UG/L)	TOXAPHENE, DISSOLVED (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)
38	79-04-12	--	--	--	--	--	0	--	--	--
	79-08-14	--	.00	--	.0	--	3	--	0	.00
	80-02-29	--	--	--	--	--	--	--	--	--
	80-04-16	--	--	--	--	--	--	--	--	--
39	76-06-15	--	--	--	--	--	1	--	--	--
	76-09-14	--	--	--	--	--	1	--	--	--
6	76-06-15	--	--	--	.0	--	1	--	0	--
	76-09-16	--	--	--	.0	--	1	--	0	--
	80-06-17	--	--	--	--	--	3	--	--	--
13	79-04-12	--	--	--	--	--	0	--	--	--
	79-06-26	--	--	--	--	--	0	--	--	--
	80-04-14	--	--	--	--	--	0	--	--	--
	80-06-17	--	--	--	--	--	11	--	--	--
47	76-09-26	--	--	--	.0	--	--	--	0	--
	76-09-27	--	--	--	.0	--	--	--	0	--
	80-04-15	--	--	--	--	--	--	--	--	--
	80-06-18	.00	.00	.0	.0	.00	--	0	0	.00
16	76-09-14	--	--	--	--	--	0	--	--	--
	79-04-11	--	--	--	--	--	2	--	--	--
	79-06-27	--	--	--	--	--	0	--	--	--
	79-08-27	--	.00	--	.2	--	7	--	0	.00
	80-04-15	.00	.00	.0	.0	.00	2	0	0	.00
	80-06-18	.00	.00	.0	.0	.00	--	0	0	.00
21	79-04-13	--	--	--	--	--	0	--	--	--
	79-06-27	--	--	--	--	--	0	--	--	--
	79-08-27	--	.00	--	.1	--	1	--	0	.00
23	76-06-16	--	--	--	--	--	2	--	--	--
	76-09-17	--	--	--	--	--	1	--	--	--
	80-04-16	.00	.00	.0	.0	.00	8	0	0	.00
	80-06-17	.00	.00	.0	.0	.00	--	0	0	.00
54	76-06-15	--	--	--	--	--	1	--	--	--
	76-09-14	--	--	--	--	--	0	--	--	--
57	76-06-17	--	--	--	--	--	0	--	--	--
	76-09-16	--	--	--	--	--	1	--	--	--
26	76-06-16	--	--	--	--	--	2	--	--	--
	76-09-17	--	--	--	--	--	1	--	--	--
	79-08-10	--	.09	--	.0	--	--	--	0	.00
	80-04-15	.00	.00	.0	.0	.00	--	0	0	.00
29	76-06-18	--	--	--	--	--	1	--	--	--
	76-09-15	--	--	--	--	--	1	--	--	--

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*--Continued

SITE NO. ON PLATE 1	STATION NUMBER	STATION NAME	DATE OF SAMPLE (Y-M-D)	TIME	GROSS ALPHA, DIS-SOLVED (PCI/L AS U-NAT)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137)
29	07109500	ARKANSAS RIVER NEAR AVONDALE	79-03-13	1300	--	--	--
			80-04-15	1300	7.5	1.5	<4.6
			84-06-17	1430	5.2	17	4.7
30	381440104234200	SIX MILE CREEK AT MOUTH NEAR AVONDALE	76-06-17	1100	--	--	--
			76-08-10	1100	--	--	--
			76-09-15	1330	--	--	--
34	07116500	HUERFANO RIVER NEAR NEPESTA	76-09-17	1245	--	--	--
35	381336104142400	ARKANSAS R AT ROCKY FORD HIGHLINE CANAL HEADGATE	76-06-18	0930	--	--	--
			76-09-17	1430	--	--	--
37	07117000	ARKANSAS RIVER NEAR NEPESTA	76-06-18	1130	--	--	--
			76-09-15	1500	--	--	--
			79-04-13	1430	--	--	--
			79-06-27	1030	--	--	--
			79-08-10	1525	--	--	--
			80-04-15	1030	--	--	--
			84-06-17	1730	--	--	--

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137)	RA-226, DIS-SOLVED, PLAN-CHET COUNT (PCI/L)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L)	ALDRIN, DIS-SOLVED (UG/L)	ALDRIN, TOTAL (UG/L)	CHLOR-DANE, DIS-SOLVED (UG/L)	CHLOR-DANE, TOTAL (UG/L)	DDD, DIS-SOLVED (UG/L)	DDD, TOTAL (UG/L)	DDE, DIS-SOLVED (UG/L)	DDE, TOTAL (UG/L)	DDT, DIS-SOLVED (UG/L)
29	79-08-10	--	--	--	--	.00	--	.0	--	.00	--	.01	--
	80-04-15	2.3	--	.14	.00	.00	.0	.0	.00	.00	.00	.00	.00
	80-06-17	20	--	.10	.00	.00	.0	.0	.00	.00	.00	.00	.00
30	76-06-17	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-10	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	76-09-15	--	--	--	--	--	--	--	--	--	--	--	--
34	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
35	76-06-18	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
37	76-06-18	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	76-09-15	--	--	--	--	.00	--	.0	--	.00	--	.00	--
	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-10	--	--	--	--	.00	--	.0	--	.00	--	.04	--
	80-04-15	--	--	--	.00	.00	.0	.0	.00	.00	.00	.00	.00
	80-06-17	--	--	--	.00	.00	.0	.0	.00	.00	.00	.00	.00

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	DDT, TOTAL (UG/L)	DI-AZINON, DIS-SOLVED (UG/L)	DI-AZINON, TOTAL (UG/L)	DI-ELDRIN DIS-SOLVED (UG/L)	DI-ELDRIN TOTAL (UG/L)	ENDO-SULFAN, TOTAL (UG/L)	ENDRIN, DIS-SOLVED (UG/L)	ENDRIN, TOTAL (UG/L)	ETHION, TOTAL (UG/L)	HEPTA-CHLOR, DIS-SOLVED (UG/L)	HEPTA-CHLOR, TOTAL (UG/L)	HEPTA-CHLOR EPOXIDE DIS-SOLVED (UG/L)
29	79-08-10	.01	--	.02	--	.00	.00	--	.00	.00	--	.00	--
	80-04-15	.00	.01	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	80-06-17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	76-06-17	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-10	.00	--	--	--	.00	--	--	.00	--	--	.00	--
	76-09-15	--	--	--	--	--	--	--	--	--	--	--	--
34	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
35	76-06-18	.00	--	--	--	.00	--	--	.00	--	--	.00	--
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
37	76-06-18	.00	--	--	--	.00	--	--	.00	--	--	.00	--
	76-09-15	.00	--	--	--	.00	--	--	.00	--	--	.00	--
	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-10	.00	--	.09	--	.02	.00	--	.00	.00	--	.00	--
	80-04-15	.00	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00
	80-06-17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

Table 18.--*Water-quality laboratory analyses of radiochemical constituents and pesticides*--Continued

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	HEPTACHLOR EPOXIDE TOTAL (UG/L)	LINDANE DISSOLVED (UG/L)	LINDANE TOTAL (UG/L)	MALATHION, DISSOLVED (UG/L)	MALATHION, TOTAL (UG/L)	METHOXYCHLOR, TOTAL (UG/L)	METHYL PARATHION, DISSOLVED (UG/L)	METHYL PARATHION, TOTAL (UG/L)	METHYL TRITHION, TOTAL (UG/L)	MIREX, DISSOLVED (UG/L)	MIREX, TOTAL (UG/L)	NAPHTHALENES, POLYCHLOR. TOTAL (UG/L)
29	79-08-10	.00	--	.00	--	.00	--	--	.00	.00	--	.00	--
	80-04-15	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	80-06-17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
30	76-06-17	--	--	--	--	--	--	--	--	--	--	--	--
	76-08-10	.00	--	.00	--	--	--	--	--	--	--	--	.00
	76-09-15	--	--	--	--	--	--	--	--	--	--	--	--
34	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
35	76-06-18	.00	--	.00	--	--	--	--	--	--	--	--	.00
	76-09-17	--	--	--	--	--	--	--	--	--	--	--	--
37	76-06-18	.00	--	.00	--	--	--	--	--	--	--	--	.00
	76-09-15	.00	--	.00	--	--	--	--	--	--	--	--	.00
	79-04-13	--	--	--	--	--	--	--	--	--	--	--	--
	79-06-27	--	--	--	--	--	--	--	--	--	--	--	--
	79-08-10	.00	--	.00	--	.03	--	--	.00	.00	--	.00	--
	80-04-15	.00	.01	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
	80-06-17	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00	.00

SITE NO. ON PLATE 1	DATE OF SAMPLE (Y-M-D)	PARATHION, DISSOLVED (UG/L)	PARATHION, TOTAL (UG/L)	PCB, DISSOLVED (UG/L)	PCB, TOTAL (UG/L)	PERTHANE TOTAL (UG/L)	PHENOLS (UG/L)	TOXAPHENE, DISSOLVED (UG/L)	TOXAPHENE, TOTAL (UG/L)	TOTAL TRITHION (UG/L)
29	79-08-10	--	.07	--	.0	--	--	--	0	.00
	80-04-15	.00	.00	.0	.0	.00	3	0	0	.00
	80-06-17	.00	.01	.0	.0	.00	--	0	0	.00
30	76-06-17	--	--	--	--	--	0	--	--	--
	76-08-10	--	--	--	.0	--	--	--	0	--
	76-09-15	--	--	--	--	--	0	--	--	--
34	76-09-17	--	--	--	--	--	0	--	--	--
35	76-06-18	--	--	--	.0	--	6	--	0	--
	76-09-17	--	--	--	--	--	0	--	--	--
37	76-06-18	--	--	--	.0	--	2	--	0	--
	76-09-15	--	--	--	.0	--	0	--	0	--
	79-04-13	--	--	--	--	--	0	--	--	--
	79-06-27	--	--	--	--	--	0	--	--	--
	79-08-10	--	.32	--	.1	--	2	--	0	.00
	80-04-15	.00	.00	.0	.0	.00	--	0	0	.00
	80-06-17	.00	.00	.0	.0	.00	--	0	0	.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*

EXPLANATION OF HEADING INFORMATION

UNITS: N=NUMBER OF ANALYSES; DEG C=DEGREES CELSIUS; MICROMHOS=MICROMHO PER CENTIMETER AT 25° CELSIUS; MG/L=MILLIGRAM PER LITER; NTU=NEPHELOMETRIC TURBIDITY UNITS; UG/L=MICROGRAM PER LITER

STATION IDENTIFICATION NUMBER=07097000 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT PORTLAND

SITE NUMBER 38 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	38	12.61	6.91	0.00	23.00
SPECIFIC CONDUCTANCE (MICROMHOS)	38	471.84	147.77	160.00	900.00
OXYGEN, DISSOLVED (MG/L)	34	10.20	2.22	6.30	15.00
TURBIDITY (NTU)	12	15.03	21.68	2.00	66.00
SODIUM, DISSOLVED (MG/L AS NA)	38	23.57	8.77	5.00	42.00
POTASSIUM, DISSOLVED (MG/L AS K)	38	2.43	0.70	0.80	3.80
CALCIUM DISSOLVED (MG/L AS CA)	38	50.53	15.24	20.00	85.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	38	15.05	5.66	4.70	29.00
HARDNESS (MG/L AS CACO3)	38	188.61	59.45	69.00	330.00
HARDNESS, NONCARBONATE (MG/L CACO3)	38	72.97	29.85	16.00	160.00
ALKALINITY (MG/L AS CACO3)	38	115.45	32.68	47.00	174.00
BICARBONATE (MG/L AS HCO3)	23	147.04	40.02	57.00	210.00
CARBONATE (MG/L AS CO3)	23	1.13	4.41	0.00	21.00
CHLORIDE, DISSOLVED (MG/L AS CL)	38	8.93	3.61	2.20	16.00
SULFATE DISSOLVED (MG/L AS SO4)	38	108.79	41.11	27.00	210.00
FLUORIDE, DISSOLVED (MG/L AS F)	38	0.55	0.14	0.20	0.80
SILICA, DISSOLVED (MG/L AS SIO2)	38	10.74	2.01	7.10	15.00
IRON, DISSOLVED (UG/L AS FE)	31	46.13	35.65	10.00	150.00
MANGANESE, DISSOLVED (UG/L AS MN)	31	39.68	22.13	10.00	104.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	12	245.00	72.60	104.00	353.00
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	38	291.45	93.65	96.00	504.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	8	64.0	90.91	9.00	274.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	12	0.33	0.15	0.05	0.50
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	12	0.54	0.25	0.07	0.87
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	6	0.36	0.07	0.24	0.43
NITROGEN, ORGANIC TOTAL (MG/L AS N)	12	0.44	0.24	0.00	0.80
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	6	0.06	0.02	0.02	0.07
NITROGEN, AMMONIA TOTAL (MG/L AS N)	12	0.06	0.05	0.01	0.19
NITROGEN, NITRITE TOTAL (MG/L AS N)	8	0.03	0.01	0.02	0.04
NITROGEN, NITRATE TOTAL (MG/L AS N)	8	0.36	0.47	0.07	1.50
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	33	0.32	0.16	0.09	0.69
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	12	0.35	0.38	0.09	1.50
NITROGEN, TOTAL (MG/L AS N)	12	0.85	0.36	0.28	1.60
NITROGEN, DISSOLVED (MG/L AS N)	7	0.61	0.22	0.21	0.88
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	20	0.05	0.05	0.00	0.25
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	8	0.03	0.01	0.02	0.04
PHOSPHORUS, DISSOLVED (MG/L AS P)	18	0.06	0.08	0.00	0.35
PHOSPHORUS, TOTAL (MG/L AS P)	12	0.29	0.41	0.03	1.30
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	8	2.23	1.32	0.80	4.80

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07097000 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT PORTLAND

SITE NUMBER 38 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	3	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	5	0.80	0.84	0.00	2.00
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	2	0.50	0.71	0.00	1.00
ARSENIC TOTAL (UG/L AS AS)	5	1.60	0.55	1.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	5	48.00	16.43	20.00	60.00
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	5	132.00	114.54	40.00	301.00
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	5	160.00	89.44	100.00	300.00
BERYLLIUM, DISSOLVED (UG/L AS BE)	1	1.00		1.00	1.00
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	1	0.00		0.00	0.00
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	1	0.00		0.00	0.00
CADMIUM DISSOLVED (UG/L AS CD)	5	1.80	1.79	1.00	5.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	5	0.40	0.89	0.00	2.00
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	5	0.80	1.30	0.00	3.00
CHROMIUM, DISSOLVED (UG/L AS CR)	5	4.00	5.48	0.00	10.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	5	0.00	0.00	0.00	0.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	5	0.00	0.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	5	3.00	0.00	3.00	3.00
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	5	0.40	0.89	0.00	2.00
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	5	1.80	2.17	0.00	5.00
COPPER, DISSOLVED (UG/L AS CU)	5	3.20	4.55	0.00	11.00
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	5	14.00	18.88	0.00	47.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	5	17.20	23.40	0.00	58.00
CYANIDE DISSOLVED (MG/L AS CN)	1	0.00		0.00	0.00
CYANIDE TOTAL (MG/L AS CN)	3	0.00	0.00	0.00	0.00
IRON, DISSOLVED (UG/L AS FE)	5	56.00	43.93	20.00	130.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	5	2666.00	3091.15	370.00	7600.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	5	2718.00	3071.34	490.00	7600.00
LEAD, DISSOLVED (UG/L AS PB)	5	0.20	0.45	0.00	1.00
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	5	38.40	41.37	2.00	94.00
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	5	38.60	41.57	2.00	94.00
MANGANESE, DISSOLVED (UG/L AS MN)	5	24.00	11.40	10.00	40.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	5	120.00	110.68	20.00	280.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	144.00	101.14	60.00	294.00
MERCURY DISSOLVED (UG/L AS HG)	5	0.00	0.00	0.00	0.00
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	5	0.21	0.37	0.00	0.90
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	5	0.24	0.37	0.00	0.90
MOLYBDENUM, DISSOLVED (UG/L AS MO)	1	10.00		10.00	10.00
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	1	4.00		4.00	4.00
NICKEL, DISSOLVED (UG/L AS NI)	1	2.00		2.00	2.00
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	1	2.00		2.00	2.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	8.25	6.55	4.00	18.00
SELENIUM, DISSOLVED (UG/L AS SE)	5	1.00	0.71	0.00	2.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	5	0.60	0.55	0.00	1.00
SELENIUM, TOTAL (UG/L AS SE)	5	1.60	0.55	1.00	2.00
SILVER, DISSOLVED (UG/L AS AG)	5	0.00	0.00	0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	2	0.00	0.00	0.00	0.00
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	6	0.05	0.06	0.00	0.12
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	2	7.60	0.57	7.20	8.00
VANADIUM, DISSOLVED (UG/L AS V)	1	1.00		1.00	1.00
ZINC, DISSOLVED (UG/L AS ZN)	5	18.60	18.43	5.00	50.00
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	5	110.00	121.45	30.00	320.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	5	128.00	122.35	40.00	340.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07099200 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR PORTLAND

SITE NUMBER 39 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	52	12.31	7.08	0.00	24.00
SPECIFIC CONDUCTANCE (MICROMHOS)	51	501.84	175.12	180.00	950.00
OXYGEN, DISSOLVED (MG/L)	49	9.84	2.22	6.30	14.20
TURBIDITY (NTU)	7	52.82	122.33	1.74	330.00
SODIUM, DISSOLVED (MG/L AS NA)	52	24.03	10.00	5.60	48.00
POTASSIUM, DISSOLVED (MG/L AS K)	46	2.56	0.74	1.10	4.00
CALCIUM DISSOLVED (MG/L AS CA)	52	56.71	19.53	19.00	110.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	52	17.46	7.25	4.80	38.00
HARDNESS (MG/L AS CACO3)	52	213.85	77.75	67.00	430.00
HARDNESS, NONCARBONATE (MG/L CACO3)	52	97.52	48.15	19.00	270.00
ALKALINITY (MG/L AS CACO3)	52	116.46	34.11	48.00	164.00
BICARBONATE (MG/L AS HCO3)	44	145.00	40.65	60.00	200.00
CARBONATE (MG/L AS CO3)	42	0.64	3.15	0.00	19.00
CHLORIDE, DISSOLVED (MG/L AS CL)	52	8.54	3.84	2.00	15.00
SULFATE DISSOLVED (MG/L AS SO4)	52	130.96	60.22	32.00	320.00
FLUORIDE, DISSOLVED (MG/L AS F)	46	0.56	0.14	0.30	0.90
SILICA, DISSOLVED (MG/L AS SIO2)	52	9.85	2.00	6.40	15.00
IRON, DISSOLVED (UG/L AS FE)	47	30.00	23.68	0.00	120.00
MANGANESE, DISSOLVED (UG/L AS MN)	48	42.08	25.49	0.00	100.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	52	321.56	120.50	102.00	642.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	6	319.33	677.53	13.00	1700.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	6	1.52	1.73	0.20	4.40
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	6	1.50	1.74	0.16	4.40
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	6	0.03	0.02	0.00	0.04
NITROGEN, NITRITE TOTAL (MG/L AS N)	0				
NITROGEN, NITRATE TOTAL (MG/L AS N)	0				
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	46	0.34	0.19	0.04	0.71
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	6	0.22	0.12	0.09	0.44
NITROGEN, TOTAL (MG/L AS N)	6	1.73	1.81	0.29	4.80
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	37	0.04	0.04	0.00	0.25
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	11	0.05	0.03	0.02	0.11
PHOSPHORUS, TOTAL (MG/L AS P)	6	0.24	0.23	0.05	0.55
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	6	2.84	2.31	0.90	7.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07099200 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR PORTLAND

SITE NUMBER 39 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	10.00	0.00	10.00	10.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	0				
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	5.50	6.36	1.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	0				
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	0				
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	0				
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CU)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	0				
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	2	55.00	21.21	40.00	70.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	29500.00	38890.87	2000.00	57000.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	15.00	7.07	10.00	20.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	0				
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	1105.00	1407.14	110.00	2100.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	0				
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	0				
SELENIUM, DISSOLVED (UG/L AS SE)	2	2.50	0.71	2.00	3.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	1	5.00		5.00	5.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.00	0.00	0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	5.00	7.07	0.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	0				

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07099500 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR PUEBLO

SITE NUMBER 6 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	15	16.97	5.22	5.50	24.50
SPECIFIC CONDUCTANCE (MICROMHOS)	15	543.40	258.29	232.00	1294.00
OXYGEN, DISSOLVED (MG/L)	14	9.41	0.86	8.10	10.30
TURBIDITY (NTU)	6	5.24	3.67	1.40	10.00
SODIUM, DISSOLVED (MG/L AS NA)	13	25.95	16.09	8.90	70.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	2.96	2.34	1.50	7.10
CALCIUM DISSOLVED (MG/L AS CA)	15	60.47	32.21	27.00	160.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	15	17.44	9.81	7.10	46.00
HARDNESS (MG/L AS CACO3)	15	221.80	120.23	97.00	590.00
HARDNESS, NONCARBONATE (MG/L CACO3)	14	122.29	96.09	42.00	420.00
ALKALINITY (MG/L AS CACO3)	14	98.14	32.60	55.00	170.00
BICARBONATE (MG/L AS HCO3)	6	118.17	29.49	80.00	151.00
CARBONATE (MG/L AS CO3)	6	3.00	3.69	0.00	8.00
CHLORIDE, DISSOLVED (MG/L AS CL)	13	9.26	7.24	2.90	31.00
SULFATE DISSOLVED (MG/L AS SO4)	13	159.46	110.35	48.00	480.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.49	0.12	0.30	0.60
SILICA, DISSOLVED (MG/L AS SIO2)	13	6.44	2.42	1.50	9.30
IRON, DISSOLVED (UG/L AS FE)	2	20.00	14.14	10.00	30.00
MANGANESE, DISSOLVED (UG/L AS MN)	4	17.25	9.84	9.00	30.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	11	333.45	212.08	136.00	905.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	13	10.92	9.16	0.00	32.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	13	0.33	0.22	0.10	0.77
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	13	0.30	0.21	0.07	0.76
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	13	0.03	0.03	0.00	0.09
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.04	0.05	0.02	0.16
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	1.34	2.50	0.11	6.90
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	13	1.04	1.86	0.13	7.10
NITROGEN, TOTAL (MG/L AS N)	13	1.38	2.00	0.33	7.80
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	6	0.03	0.01	0.00	0.04
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	13	1.43	0.70	0.70	3.40

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07099500 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR PUEBLO

SITE NUMBER 6 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	4	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	1.00	0.00	1.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	6	4.67	7.20	0.00	17.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.01		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	0.00	0.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	7.50	9.00	0.00	20.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	4	0.00	0.00	0.00	0.00
IRON, DISSOLVED (UG/L AS FE)	2	20.00	14.14	10.00	30.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	6	841.67	968.90	100.00	2700.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	18.75	12.97	1.00	31.00
MANGANESE, DISSOLVED (UG/L AS MN)	4	17.25	9.84	9.00	30.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	25.00	21.21	10.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	42.50	9.57	30.00	50.00
MERCURY DISSOLVED (UG/L AS HG)	2	0.05	0.07	0.00	0.10
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	6	0.13	0.19	0.00	0.50
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	4.00	4.24	1.00	7.00
SELENIUM, DISSOLVED (UG/L AS SE)	3	19.00	26.89	2.00	50.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	4	3.50	1.91	1.00	5.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.00	0.00	0.00	1.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	4	2.53	4.98	0.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	50.00	35.59	20.00	100.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381607104325600 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT 4TH ST AT PUEBLO

SITE NUMBER 12 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	7	16.43	4.89	8.00	23.00
SPECIFIC CONDUCTANCE (MICROMHOS)	7	513.14	201.37	283.00	826.00
OXYGEN, DISSOLVED (MG/L)	6	9.87	1.01	8.80	11.60
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	24.76	13.77	9.30	42.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	2.26	.77	1.60	3.50
CALCIUM DISSOLVED (MG/L AS CA)	7	55.57	22.31	31.00	95.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	16.51	7.86	7.30	27.00
HARDNESS (MG/L AS CACO3)	7	205.71	87.72	110.00	354.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	108.43	56.17	46.00	200.40
ALKALINITY (MG/L AS CACO3)	7	98.00	35.35	57.00	150.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	7.43	3.84	3.40	12.00
SULFATE DISSOLVED (MG/L AS SO4)	7	147.14	74.73	62.00	274.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.50	0.10	0.40	0.60
SILICA, DISSOLVED (MG/L AS SIO2)	7	6.14	2.46	2.30	8.70
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	20.00	14.14	10.00	30.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	286.40	155.61	163.00	544.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	8.43	7.98	0.00	23.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.54	0.79	0.05	2.30
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.51	0.80	0.01	2.30
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.04	0.04	0.01	0.12
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.03	0.01	0.02	0.04
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.41	0.38	0.06	1.20
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.43	0.38	0.08	1.20
NITROGEN, TOTAL (MG/L AS N)	7	0.97	0.94	0.28	2.80
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	1.44	0.89	0.90	3.20

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381647104372501 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT 4TH ST AT PUEBLO

SITE NUMBER 12 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	1.00	0.00	1.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	0.00	0.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	5.00	7.07	0.00	10.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	430.00	438.41	120.00	740.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	2	15.50	6.36	11.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	20.00	14.14	10.00	30.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	25.00	21.21	10.00	40.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	45.00	7.07	40.00	50.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	2	0.05	0.07	0.00	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	7.00	1.41	6.00	8.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	14.00		14.00	14.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	2	5.50	0.71	5.00	6.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	30.00	28.28	10.00	50.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381516104362200 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT SANTA FE AVE AT PUEBLO

SITE NUMBER 13 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	9	17.44	4.38	11.00	23.40
SPECIFIC CONDUCTANCE (MICROMHOS)	9	572.67	227.01	323.00	1000.00
OXYGEN, DISSOLVED (MG/L)	8	10.54	1.35	8.70	12.50
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	29.57	14.86	13.00	55.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	4.02	4.48	1.60	12.00
CALCIUM DISSOLVED (MG/L AS CA)	9	60.56	26.09	33.00	120.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	9	18.28	8.40	9.00	34.00
HARDNESS (MG/L AS CACO3)	9	227.78	98.08	120.00	440.00
HARDNESS, NONCARBONATE (MG/L CACO3)	9	132.11	71.74	62.00	300.00
ALKALINITY (MG/L AS CACO3)	9	94.33	30.46	57.00	140.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	9.64	4.43	5.00	17.00
SULFATE DISSOLVED (MG/L AS SO4)	7	185.14	98.11	86.00	394.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.53	0.14	0.40	0.70
SILICA, DISSOLVED (MG/L AS SIO2)	7	8.34	6.58	2.10	22.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	15.00	7.07	10.00	20.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	366.80	206.03	194.00	719.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	10.14	11.57	0.00	29.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	6	0.34	0.19	0.15	0.60
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	6	0.29	0.22	0.00	0.59
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.04	0.05	0.01	0.16
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.03	0.02	0.02	0.06
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.58	0.60	0.07	1.90
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.61	0.63	0.09	2.00
NITROGEN, TOTAL (MG/L AS N)	6	0.96	0.78	0.35	2.50
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	1.70	0.73	1.00	3.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381516104362200 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT SANTA FE AVE AT PUEBLO

SITE NUMBER 13 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN VALUE	STANDARD DEVIATION VALUE	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	1.00	0.00	1.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	4	0.50	0.58	0.00	1.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	5.00	7.07	0.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	2.25	3.30	0.00	7.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	4	0.00	0.00	0.00	0.00
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	4	1032.50	1359.10	120.00	3000.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	16.00	11.20	0.00	26.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	15.00	7.07	10.00	20.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	25.00	7.07	20.00	30.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	40.00	0.00	40.00	40.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	4	0.03	0.05	0.00	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	4.00	2.83	2.00	6.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	27.00		27.00	27.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	2	7.50	0.71	7.00	8.00
SILVER, DISSOLVED (UG/L AS AG)	4				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	3	26.67	20.82	10.00	50.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07104630 STATION NAME OR LOCAL IDENTIFIER=FOUNTAIN CREEK NEAR PINON

SITE NUMBER 47 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	37	19.72	6.51	7.00	31.00
SPECIFIC CONDUCTANCE (MICROMHOS)	37	822.19	242.77	490.00	1300.00
OXYGEN, DISSOLVED (MG/L)	29	6.97	1.33	4.90	10.30
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	34	77.18	31.22	36.00	140.00
POTASSIUM, DISSOLVED (MG/L AS K)	33	6.25	1.66	4.00	8.70
CALCIUM DISSOLVED (MG/L AS CA)	36	77.39	20.83	47.00	120.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	36	20.12	8.38	8.40	36.00
HARDNESS (MG/L AS CACO3)	36	276.39	84.55	160.00	450.00
HARDNESS, NONCARBONATE (MG/L CACO3)	36	139.39	48.69	52.00	240.00
ALKALINITY (MG/L AS CACO3)	36	136.81	51.69	56.00	221.00
BICARBONATE (MG/L AS HCO3)	30	159.23	65.73	68.00	270.00
CARBONATE (MG/L AS CO3)	14	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	34	30.00	15.25	12.00	66.00
SULFATE DISSOLVED (MG/L AS SO4)	34	257.06	83.97	140.00	430.00
FLUORIDE, DISSOLVED (MG/L AS F)	34	1.53	0.45	0.90	2.40
SILICA, DISSOLVED (MG/L AS SIO2)	34	10.19	3.23	5.30	18.00
IRON, DISSOLVED (UG/L AS FE)	30	34.33	22.69	10.00	84.00
MANGANESE, DISSOLVED (UG/L AS MN)	32	10.72	5.99	0.00	24.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	32	561.84	194.28	303.00	940.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	37	5862.19	5722.90	63.00	17200.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	36	9.14	6.41	0.61	24.00
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	36	8.79	6.36	0.58	22.40
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	37	0.36	0.43	0.00	1.70
NITROGEN, NITRITE TOTAL (MG/L AS N)	6	0.14	0.15	0.01	0.36
NITROGEN, NITRATE TOTAL (MG/L AS N)	6	3.30	1.25	2.10	5.20
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	30	2.08	0.96	0.91	3.40
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	37	2.08	0.95	1.00	5.60
NITROGEN, TOTAL (MG/L AS N)	36	11.31	6.18	2.70	26.00
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	30	0.41	0.34	0.02	1.10
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	30	0.53	0.36	0.10	1.10
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	37	5.25	4.01	0.06	16.00
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	4	11.45	11.65	1.00	28.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07106300 STATION NAME OR LOCAL IDENTIFIER=FOUNTAIN CREEK NEAR PINON

SITE NUMBER 47 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	13.50	14.85	3.00	24.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	2	0.00	0.00	0.00	0.00
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	5	4.00	3.94	1.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	3	0.00	0.00	0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	36	0.06	0.33	0.00	2.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	2	1.00	0.00	1.00	1.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	18.00	25.32	1.00	64.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	35	261.51	158.80	6.00	610.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	30	34.33	22.69	10.00	84.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	5	57020.00	90699.76	2000.00	190000.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	35	526.94	333.33	5.00	1300.00
MANGANESE, DISSOLVED (UG/L AS MN)	32	10.72	5.99	0.00	20.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	1230.00	1654.63	60.00	2400.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	1604.00	2125.39	60.00	5000.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	23	0.58	0.43	0.00	1.40
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	35.00	40.93	10.00	95.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	0.00		0.00	0.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	21	4.19	4.27	0.00	14.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	5	1.05	1.08	0.06	2.50
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	2	7.25	0.07	7.20	7.30
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	5	342.00	412.46	50.00	1000.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381515104361900 STATION NAME OR LOCAL IDENTIFIER=FOUNTAIN CREEK AT MOUTH NEAR PUEBLO

SITE NUMBER 16 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	12	22.42	7.51	8.00	30.50
SPECIFIC CONDUCTANCE (MICROMHOS)	12	1613.67	489.87	814.00	2240.00
OXYGEN, DISSOLVED (MG/L)	11	7.52	1.76	5.90	11.20
TURBIDITY (NTU)	4	8.93	5.67	2.40	16.00
SODIUM, DISSOLVED (MG/L AS NA)	11	164.27	49.93	80.00	230.00
POTASSIUM, DISSOLVED (MG/L AS K)	6	7.05	0.23	6.80	7.40
CALCIUM DISSOLVED (MG/L AS CA)	12	142.67	52.11	65.00	241.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	12	50.00	21.49	20.00	78.00
HARDNESS (MG/L AS CACO3)	12	562.50	212.48	250.00	874.00
HARDNESS, NONCARBONATE (MG/L CACO3)	12	379.17	201.88	120.00	720.00
ALKALINITY (MG/L AS CACO3)	12	183.25	44.94	130.00	261.00
BICARBONATE (MG/L AS HCO3)	4	215.50	71.68	155.00	318.00
CARBONATE (MG/L AS CO3)	4	1.75	3.50	0.00	7.00
CHLORIDE, DISSOLVED (MG/L AS CL)	11	56.64	14.89	32.00	75.00
SULFATE DISSOLVED (MG/L AS SO4)	11	620.91	271.01	240.00	960.00
FLUORIDE, DISSOLVED (MG/L AS F)	8	2.08	0.49	1.20	2.50
SILICA, DISSOLVED (MG/L AS SIO2)	11	11.14	3.55	5.30	16.00
IRON, DISSOLVED (UG/L AS FE)	2	10.00	0.00	10.00	10.00
MANGANESE, DISSOLVED (UG/L AS MN)	4	34.00	44.39	6.00	100.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	9	1250.22	380.18	532.00	1640.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	11	3895.82	9730.80	0.00	32300.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	12	2.31	4.06	0.21	15.00
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	12	2.14	4.11	0.00	15.00
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	12	0.18	0.38	0.00	1.30
NITROGEN, NITRITE TOTAL (MG/L AS N)	8	0.08	0.08	0.02	0.23
NITROGEN, NITRATE TOTAL (MG/L AS N)	8	3.59	1.04	2.50	5.20
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	12	3.43	1.18	1.30	5.20
NITROGEN, TOTAL (MG/L AS N)	12	5.83	4.07	1.90	18.00
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	5	0.62	1.01	0.04	2.40
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	10	13.41	14.42	1.00	40.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381515104351900 STATION NAME OR LOCAL IDENTIFIER=FOUNTAIN CREEK AT MOUTH NEAR PUEBLO

SITE NUMBER 16 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	5	42.01	88.43	0.00	200.00
ARSENIC DISSOLVED (UG/L AS AS)	1	3.00		3.00	3.00
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	3	26.67	19.30	5.00	42.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	1	1.00		1.00	1.00
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	1	0.00		0.00	0.00
CADMIUM DISSOLVED (UG/L AS CD)	2	0.50	0.71	0.00	1.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	5	4.40	3.71	1.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	2	0.00	0.00	0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	2	0.00	0.00	0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	1	3.00		3.00	3.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	63.25	67.59	3.00	140.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	1	0.00		0.00	0.00
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	1	15.00		15.00	15.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	148.75	124.79	15.00	260.00
CYANIDE DISSOLVED (MG/L AS CN)	2	0.00	0.00	0.00	0.00
CYANIDE TOTAL (MG/L AS CN)	3	0.00	0.01	0.00	0.01
IRON, DISSOLVED (UG/L AS FE)	2	10.00	0.00	10.00	10.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	4	32840.00	51681.77	260.00	110000.00
LEAD, DISSOLVED (UG/L AS PB)	1	0.00		0.00	0.00
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	1	17.00		17.00	17.00
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	106.25	169.91	5.00	360.00
MANGANESE, DISSOLVED (UG/L AS MN)	4	34.00	44.39	6.00	100.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	3	1843.33	2647.16	310.00	4900.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	2052.00	2466.77	110.00	4900.00
MERCURY DISSOLVED (UG/L AS HG)	2	0.00	0.00	0.00	0.00
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	1	0.10		0.10	0.10
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	5	0.24	0.29	0.00	0.70
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	1	0.00		0.00	0.00
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	1	17.00		17.00	17.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	70.75	82.48	14.00	190.00
SELENIUM, DISSOLVED (UG/L AS SE)	3	45.00	47.63	17.00	100.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	1	7.00		7.00	7.00
SELENIUM, TOTAL (UG/L AS SE)	5	35.80	35.99	17.00	100.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.03	0.04	0.00	0.06
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	5	4.76	4.20	0.25	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	1	420.00		420.00	420.00
URANIUM DISSOLVED, EXTRACTION (UG/L)	2	8.30	2.40	6.60	10.00
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	1	5.00		5.00	5.00
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	1	60.00		60.00	60.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	507.54	491.62	60.00	1000.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381547144330801 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NR 23D LANE NEAR PUEBLO

SITE NUMBER 21 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	8	19.81	6.35	9.50	25.00
SPECIFIC CONDUCTANCE (MICROMHOS)	8	694.12	297.65	306.00	1120.00
OXYGEN, DISSOLVED (MG/L)	6	8.33	0.74	7.20	9.20
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	8	47.75	29.62	14.00	93.00
POTASSIUM, DISSOLVED (MG/L AS K)	6	3.24	0.88	1.90	4.20
CALCIUM DISSOLVED (MG/L AS CA)	8	65.50	27.12	31.00	100.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	8	20.49	10.23	8.90	36.00
HARDNESS (MG/L AS CACO3)	8	248.75	110.12	110.00	404.00
HARDNESS, NONCARBONATE (MG/L CACO3)	8	140.38	77.15	52.00	250.00
ALKALINITY (MG/L AS CACO3)	8	108.25	35.44	62.00	160.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	8	19.79	13.81	5.50	40.00
SULFATE DISSOLVED (MG/L AS SO4)	8,	208.13	98.92	65.00	360.00
FLUORIDE, DISSOLVED (MG/L AS F)	8	0.79	0.36	0.40	1.50
SILICA, DISSOLVED (MG/L AS SIO2)	8	8.79	1.15	7.60	11.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	45.00	35.36	20.00	70.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	6	377.83	191.59	175.00	740.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	8	319.50	569.38	3.00	1630.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	6	1.83	1.63	0.55	4.50
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	6	0.53	0.56	0.00	1.60
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	1.19	1.22	0.01	2.90
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.19	0.10	0.02	0.31
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.76	0.60	0.19	1.50
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.95	0.61	0.35	1.90
NITROGEN, TOTAL (MG/L AS N)	6	2.90	2.13	0.98	6.40
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	6	7.28	5.20	0.50	16.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381547104330400 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NR 23D LANE NEAR PUEBLO

SITE NUMBER 21 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	3	2.67	4.62	0.00	8.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	3	6.33	5.13	2.00	12.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	3	1.67	1.15	1.00	3.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	3	20.00	20.00	0.00	40.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	3	36.67	30.55	10.00	70.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	3	0.00	0.01	0.00	0.01
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	7800.00	8768.12	1600.00	14000.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	3	70.33	43.02	21.00	100.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	45.00	35.36	20.00	70.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	200.00	282.84	0.00	400.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	3	530.00	523.74	70.00	1100.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	3	0.13	0.10	0.00	0.20
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	3	24.00	14.73	11.00	40.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	14.00		14.00	14.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	3	7.67	4.51	3.00	12.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	3	0.51	0.53	0.07	1.10
STRONTIUM, DISSOLVED (UG/L AS SR)	1	630.00		630.00	630.00
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	3	170.00	105.36	70.00	284.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381530104294600 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT COLO HWY 233 AT BAXTER

SITE NUMBER 23 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	7	18.71	3.30	14.50	23.00
SPECIFIC CONDUCTANCE (MICROMHOS)	7	617.71	169.57	380.00	819.00
OXYGEN, DISSOLVED (MG/L)	7	6.59	1.17	4.60	8.30
TURBIDITY (NTU)	6	14.71	15.01	5.70	45.00
SODIUM, DISSOLVED (MG/L AS NA)	6	28.50	11.27	16.00	45.00
POTASSIUM, DISSOLVED (MG/L AS K)	0				
CALCIUM DISSOLVED (MG/L AS CA)	7	66.71	15.49	42.00	81.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	19.71	6.65	11.00	27.00
HARDNESS (MG/L AS CACO3)	7	247.14	67.01	150.00	310.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	139.86	41.47	79.00	180.00
ALKALINITY (MG/L AS CACO3)	7	108.00	27.53	75.00	149.00
BICARBONATE (MG/L AS HCO3)	6	127.33	34.38	92.00	182.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	6	12.52	5.42	6.60	21.00
SULFATE DISSOLVED (MG/L AS SO4)	6	163.67	53.69	96.00	210.00
FLUORIDE, DISSOLVED (MG/L AS F)	0				
SILICA, DISSOLVED (MG/L AS SIO2)	6	5.97	1.64	3.30	7.30
IRON, DISSOLVED (UG/L AS FE)	3	13.33	5.77	10.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	3	43.33	40.41	20.00	90.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	6	356.33	104.27	226.00	475.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	6	25.50	12.45	7.00	40.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.89	0.47	0.50	1.50
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.53	0.25	0.27	0.86
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.36	0.24	0.07	0.64
NITROGEN, NITRITE TOTAL (MG/L AS N)	1	0.13		0.13	0.13
NITROGEN, NITRATE TOTAL (MG/L AS N)	1	1.60		1.60	1.60
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	1.35	0.46	0.80	2.00
NITROGEN, TOTAL (MG/L AS N)	7	2.23	0.83	1.30	3.20
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	7	0.27	0.21	0.14	0.72
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	6	5.17	2.43	2.70	9.50

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381530104294600 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER AT COLO HWY 233 AT BAXTER

SITE NUMBER 23 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	3	6.67	11.55	0.00	20.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	0				
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	3	0.33	0.58	0.00	1.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	3	3.33	5.77	0.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	0				
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	1	5.00		5.00	5.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	1	5.00		5.00	5.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	1	3.00		3.00	3.00
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	1	7.00		7.00	7.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	1	10.00		10.00	10.00
CYANIDE DISSOLVED (MG/L AS CN)	3	0.00	0.00	0.00	0.01
CYANIDE TOTAL (MG/L AS CN)	3	0.00	0.01	0.00	0.01
IRON, DISSOLVED (UG/L AS FE)	3	13.33	5.77	10.00	20.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	3	1153.33	741.44	620.00	2000.00
LEAD, DISSOLVED (UG/L AS PB)	1	0.00		0.00	0.00
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	1	10.00		10.00	10.00
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	1	10.00		10.00	10.00
MANGANESE, DISSOLVED (UG/L AS MN)	3	43.33	40.41	20.00	90.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	1	90.00		90.00	90.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	3	90.00	34.64	50.00	110.00
MERCURY DISSOLVED (UG/L AS HG)	1	0.00		0.00	0.00
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	1	0.10		0.10	0.10
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	1	0.10		0.10	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	1	7.00		7.00	7.00
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	1	6.00		6.00	6.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	1	13.00		13.00	13.00
SELENIUM, DISSOLVED (UG/L AS SE)	2	7.00	0.00	7.00	7.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	1	8.00		8.00	8.00
SILVER, DISSOLVED (UG/L AS AG)	3	0.02	0.04	0.00	0.07
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	3	3.43	5.69	0.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	1	20.00		20.00	20.00
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	1	80.00		80.00	80.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	1	100.00		100.00	100.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=380347104591100 STATION NAME OR LOCAL IDENTIFIER=SQUIRREL CREEK NEAR BEULAH

SITE NUMBER 51 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	7	11.36	5.74	5.00	19.00
SPECIFIC CONDUCTANCE (MICROMHOS)	7	242.29	64.44	159.00	310.00
OXYGEN, DISSOLVED (MG/L)	7	9.01	1.17	7.10	10.40
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	9.96	4.29	5.30	17.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	2.14	0.43	1.50	2.60
CALCIUM DISSOLVED (MG/L AS CA)	7	28.43	7.04	20.00	38.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	6.56	1.43	4.80	8.20
HARDNESS (MG/L AS CACO3)	7	99.01	24.28	70.00	130.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	8.57	7.37	0.00	19.00
ALKALINITY (MG/L AS CACO3)	7	90.57	31.61	53.00	130.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	2.33	0.89	1.40	3.90
SULFATE DISSOLVED (MG/L AS SO4)	7	23.86	4.53	18.00	29.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.91	0.04	0.90	1.00
SILICA, DISSOLVED (MG/L AS SIO2)	7	15.70	4.38	7.90	20.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	3.00	2.83	1.00	5.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	158.60	32.68	105.00	192.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	2.43	4.39	0.00	12.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.67	1.00	0.14	2.80
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.66	1.01	0.13	2.80
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.01	0.01	0.00	0.03
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.01	0.01	0.00	0.02
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.12	0.17	0.00	0.46
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.13	0.16	0.01	0.46
NITROGEN, TOTAL (MG/L AS N)	7	0.80	1.03	0.17	3.00
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	0.73	0.30	0.20	1.10

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=384347104591100 STATION NAME OR LOCAL IDENTIFIER=SQUIRREL CREEK NEAR REDLAH

SITE NUMBER 51 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	0.00	0.00	0.00	0.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	2.50	3.54	0.00	5.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	5.00	7.07	0.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	0.00	0.00	0.00	0.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	95.00	21.21	80.00	110.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	2	7.50	0.71	7.00	8.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	3.00	2.83	1.00	5.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	2.50	3.54	0.00	5.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	5.00	7.07	0.00	10.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	2	0.05	0.07	0.00	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	3.50	2.12	2.00	5.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	1.00		1.00	1.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	2	0.00	0.00	0.00	0.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.08	0.04	0.05	0.11
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	10.00	0.00	10.00	10.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=384343104590700 STATION NAME OR LOCAL IDENTIFIER=SOUTH CREEK NEAR BEULAH

SITE NUMBER 52 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	7	11.57	9.00	0.00	25.00
SPECIFIC CONDUCTANCE (MICROMHOS)	7	263.86	92.06	138.00	382.00
OXYGEN, DISSOLVED (MG/L)	7	8.84	1.43	6.70	10.40
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	19.85	10.86	6.60	34.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	2.74	0.79	1.70	3.70
CALCIUM DISSOLVED (MG/L AS CA)	7	28.29	9.16	16.00	39.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	6.43	1.72	4.00	8.30
HARDNESS (MG/L AS CACO3)	7	95.86	28.79	56.00	130.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	4.57	5.94	0.00	14.00
ALKALINITY (MG/L AS CACO3)	7	102.71	46.59	42.00	160.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	6.19	3.37	2.30	10.00
SULFATE DISSOLVED (MG/L AS SO4)	7	26.86	7.97	17.00	37.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.74	0.00	0.70	0.70
SILICA, DISSOLVED (MG/L AS SIO2)	7	19.00	3.70	13.00	24.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	3.50	3.54	1.00	6.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	196.40	55.50	107.00	247.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	12.43	17.04	0.00	50.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.67	1.04	0.01	3.00
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.66	1.04	0.00	3.00
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.01	0.01	0.01	0.03
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.01	0.01	0.00	0.02
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.08	0.11	0.00	0.31
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.09	0.11	0.00	0.31
NITROGEN, TOTAL (MG/L AS N)	7	0.76	0.99	0.32	3.00
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	0.66	0.45	0.00	1.20

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=360343104590700 STATION NAME OR LOCAL IDENTIFIER=SOUTH CREEK NEAR BEULAH

SITE NUMBER 52 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	0.50	0.71	0.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	10.00	0.00	10.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	0.00	0.00	0.00	0.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	165.00	63.64	120.00	210.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	2	8.00	2.83	6.00	10.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	3.50	3.54	1.00	6.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	0.00	0.00	0.00	0.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	0.00	0.00	0.00	0.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	2	0.05	0.07	0.00	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	2.50	3.54	0.00	5.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	0.00		0.00	0.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	2	0.50	0.71	0.00	1.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	20.00	0.00	20.00	20.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=380447104581600 STATION NAME OR LOCAL IDENTIFIER="IDDLE CREEK NEAR BEULAH

SITE NUMBER 53 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	7	10.93	4.60	5.00	17.50
SPECIFIC CONDUCTANCE (MICROMHOS)	7	246.43	66.16	170.00	345.00
OXYGEN, DISSOLVED (MG/L)	7	9.43	1.02	7.90	11.00
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	11.79	5.53	6.50	20.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	1.94	0.52	1.40	2.80
CALCIUM DISSOLVED (MG/L AS CA)	7	28.71	8.26	19.00	41.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	6.30	1.26	4.20	7.30
HARDNESS (MG/L AS CACO3)	7	96.86	23.14	68.00	130.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	6.29	7.45	0.00	21.00
ALKALINITY (MG/L AS CACO3)	7	95.00	33.59	61.00	150.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	3.81	1.89	1.70	7.20
SULFATE DISSOLVED (MG/L AS SO4)	7	22.43	4.58	16.00	27.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.76	0.18	0.50	1.00
SILICA, DISSOLVED (MG/L AS SIO2)	7	17.29	1.98	15.00	20.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	4.50	3.54	2.00	7.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	156.20	47.74	107.00	214.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	7.57	7.72	0.00	23.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.34	0.28	0.12	0.94
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.32	0.28	0.10	0.93
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.02	0.01	0.01	0.04
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.01	0.01	0.00	0.02
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.14	0.14	0.00	0.38
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.15	0.13	0.02	0.38
NITROGEN, TOTAL (MG/L AS N)	7	0.49	0.24	0.23	0.98
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	0.78	0.56	0.10	1.60

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=380447104581600 STATION NAME OR LOCAL IDENTIFIER=MIDDLE CREEK NEAR BEULAH

SITE NUMBER 53 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	0.50	0.71	0.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	10.00	0.00	10.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	5.00	7.07	0.00	10.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	410.00	226.27	250.00	570.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	2	176.00	147.08	72.00	280.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	4.50	3.54	2.00	7.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	14.00	8.49	8.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	20.00	14.14	10.00	30.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	2	0.05	0.07	0.00	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	4.50	2.12	3.00	6.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	0.00		0.00	0.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	2	0.50	0.71	0.00	1.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	35.00	7.07	30.00	40.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=390411104571801 STATION NAME OR LOCAL IDENTIFIER=NORTH ST CHARLES R AT HWY 78 NR BEULAH

SITE NUMBER 54 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	8	14.44	5.00	7.00	21.00
SPECIFIC CONDUCTANCE (MICROMHOS)	8	339.13	117.88	175.00	500.00
OXYGEN, DISSOLVED (MG/L)	8	9.29	1.44	7.70	12.00
TURBIDITY (NTU)	6	6.23	6.09	0.90	18.00
SODIUM, DISSOLVED (MG/L AS NA)	6	26.17	8.38	15.00	38.00
POTASSIUM, DISSOLVED (MG/L AS K)	0				
CALCIUM DISSOLVED (MG/L AS CA)	8	37.25	13.12	20.00	53.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	8	7.96	2.19	4.80	11.00
HARDNESS (MG/L AS CACO3)	8	126.25	42.79	70.00	180.00
HARDNESS, NONCARBONATE (MG/L CACO3)	8	7.25	18.57	0.00	53.00
ALKALINITY (MG/L AS CACO3)	8	136.00	69.01	17.00	228.00
BICARBONATE (MG/L AS HCO3)	6	201.17	57.57	119.00	278.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	6	5.32	1.69	3.20	7.50
SULFATE DISSOLVED (MG/L AS SO4)	6	23.00	3.22	19.00	28.00
FLUORIDE, DISSOLVED (MG/L AS F)	0				
SILICA, DISSOLVED (MG/L AS SIO2)	6	19.67	2.42	16.00	22.00
IRON, DISSOLVED (UG/L AS FE)	2	15.00	7.07	10.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	30.00	14.14	20.00	40.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	6	224.50	53.97	148.00	291.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	6	18.00	21.17	0.00	59.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	6	0.27	0.08	0.14	0.37
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	6	0.26	0.09	0.12	0.37
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	6	0.01	0.01	0.00	0.02
NITROGEN, NITRITE TOTAL (MG/L AS N)	0				
NITROGEN, NITRATE TOTAL (MG/L AS N)	0				
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	6	0.16	0.12	0.03	0.34
NITROGEN, TOTAL (MG/L AS N)	6	0.44	0.18	0.17	0.67
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	6	0.06	0.03	0.03	0.09
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	6	0.97	0.35	0.55	1.50

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=36041110457184I STATION NAME OR LOCAL IDENTIFIER=NORTH FK CHARLES R AT HWY 78 NR BEULAH

SITE NUMBER 54 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	10.00	14.14	0.00	20.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	0				
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	4	0.25	0.50	0.00	1.00
CHROMIUM, DISSOLVED (UG/L AS CR)	0				
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	0				
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	0				
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	3.00	1.41	2.00	4.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	2	15.00	7.07	10.00	20.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	820.00	676.82	340.00	1300.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	2	4.50	2.12	3.00	6.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	30.00	14.14	20.00	40.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	0				
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	80.00	56.57	40.00	120.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	2	0.15	0.07	0.10	0.20
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	0				
SELENIUM, DISSOLVED (UG/L AS SE)	2	0.50	0.71	0.00	1.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	1	1.00		1.00	1.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.00	0.00	0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.00	0.00	0.00	0.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	0				

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=380450144529000 STATION NAME OR LOCAL IDENTIFIER=ST. CHARLES R. AT CERI STEEL DIVERSION

SITE NUMBER 55 ON PLATE I

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	9	14.39	7.04	3.50	23.00
SPECIFIC CONDUCTANCE (MICROMHOS)	9	510.44	296.61	215.00	1050.00
OXYGEN, DISSOLVED (MG/L)	9	8.82	1.35	6.50	10.30
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	20.29	7.65	10.00	29.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	3.24	1.89	1.70	6.50
CALCIUM DISSOLVED (MG/L AS CA)	9	67.56	52.88	24.00	190.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	9	18.29	14.18	5.80	49.00
HARDNESS (MG/L AS CACO3)	9	243.78	191.67	84.00	680.00
HARDNESS, NONCARBONATE (MG/L CACO3)	9	142.22	176.79	32.00	580.00
ALKALINITY (MG/L AS CACO3)	9	101.33	37.59	52.00	160.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	3.86	1.05	2.10	5.20
SULFATE DISSOLVED (MG/L AS SO4)	7	211.86	193.63	52.00	600.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.60	0.13	0.50	0.80
SILICA, DISSOLVED (MG/L AS SIO2)	7	12.96	2.72	8.70	18.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	15.00	7.07	10.00	20.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	507.00	279.53	161.00	936.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	142.57	327.13	0.00	884.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.88	1.02	0.10	2.90
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.87	1.02	0.08	2.90
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.02	0.01	0.01	0.03
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.02	0.02	0.00	0.06
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.12	0.20	0.00	0.57
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.14	0.22	0.00	0.63
NITROGEN, TOTAL (MG/L AS N)	7	1.03	1.15	0.18	3.10
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	3.61	3.86	0.40	9.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=384501044529ØØ STATION NAME OR LOCAL IDENTIFIER=ST. CHARLES R. AT CEAI STEEL DIVERSION

SITE NUMBER 55 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	Ø.ØØ	Ø.ØØ	Ø.ØØ	Ø.ØØ
ARSENIC DISSOLVED (UG/L AS AS)	Ø				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	Ø				
ARSENIC TOTAL (UG/L AS AS)	2	Ø.5Ø	Ø.71	Ø.ØØ	1.ØØ
BARIUM, DISSOLVED (UG/L AS BA)	Ø				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	Ø				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	Ø				
BERYLLIUM, DISSOLVED (UG/L AS BE)	Ø				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	Ø				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	Ø				
CADMIUM DISSOLVED (UG/L AS CD)	Ø				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	Ø				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	4	Ø.5Ø	Ø.58	Ø.ØØ	1.ØØ
CHROMIUM, DISSOLVED (UG/L AS CR)	1	Ø.ØØ		Ø.ØØ	Ø.ØØ
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	Ø.ØØ		Ø.ØØ	Ø.ØØ
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	Ø				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	5.ØØ	7.Ø7	Ø.ØØ	1Ø.ØØ
COBALT, DISSOLVED (UG/L AS CO)	Ø				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	Ø				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	Ø				
COPPER, DISSOLVED (UG/L AS CU)	Ø				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	Ø				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	2.75	3.77	Ø.ØØ	8.ØØ
CYANIDE DISSOLVED (MG/L AS CN)	Ø				
CYANIDE TOTAL (MG/L AS CN)	Ø				
IRON, DISSOLVED (UG/L AS FE)	Ø				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	Ø				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	4	1902.5Ø	2199.31	72Ø.ØØ	52ØØ.ØØ
LEAD, DISSOLVED (UG/L AS PB)	Ø				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	Ø				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	6.ØØ	1.41	4.ØØ	7.ØØ
MANGANESE, DISSOLVED (UG/L AS MN)	2	15.ØØ	7.Ø7	1Ø.ØØ	2Ø.ØØ
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	3Ø.ØØ	Ø.ØØ	3Ø.ØØ	3Ø.ØØ
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	45.ØØ	7.Ø7	4Ø.ØØ	5Ø.ØØ
MERCURY DISSOLVED (UG/L AS HG)	Ø				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	Ø				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	4	Ø.1Ø	Ø.14	Ø.ØØ	Ø.3Ø
MOLYBDENUM, DISSOLVED (UG/L AS MO)	Ø				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	Ø				
NICKEL, DISSOLVED (UG/L AS NI)	Ø				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	Ø				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	4.5Ø	2.12	3.ØØ	6.ØØ
SELENIUM, DISSOLVED (UG/L AS SE)	1	1.ØØ		1.ØØ	1.ØØ
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	Ø				
SELENIUM, TOTAL (UG/L AS SE)	2	1.ØØ	Ø.ØØ	1.ØØ	1.ØØ
SILVER, DISSOLVED (UG/L AS AG)	Ø				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	Ø				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	Ø.Ø5	Ø.ØØ	Ø.Ø5	Ø.Ø5
STRONTIUM, DISSOLVED (UG/L AS SR)	Ø				
URANIUM DISSOLVED, EXTRACTION (UG/L)	Ø				
VANADIUM, DISSOLVED (UG/L AS V)	Ø				
ZINC, DISSOLVED (UG/L AS ZN)	Ø				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	Ø				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	15.ØØ	7.Ø7	1Ø.ØØ	2Ø.ØØ

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07107900 STATION NAME OR LOCAL IDENTIFIER=GREENHORN CREEK NEAR RYE

SITE NUMBER 56 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	9	7.72	5.24	0.50	15.50
SPECIFIC CONDUCTANCE (MICROMHOS)	9	75.89	13.92	55.00	92.00
OXYGEN, DISSOLVED (MG/L)	8	9.63	1.17	7.80	11.60
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	2.53	0.18	2.20	2.70
POTASSIUM, DISSOLVED (MG/L AS K)	5	1.28	0.16	1.10	1.50
CALCIUM DISSOLVED (MG/L AS CA)	9	9.50	2.03	5.60	11.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	9	1.63	0.42	0.80	2.00
HARDNESS (MG/L AS CACO3)	9	30.33	6.73	17.00	36.00
HARDNESS, NONCARBONATE (MG/L CACO3)	9	4.44	3.88	0.00	11.00
ALKALINITY (MG/L AS CACO3)	9	26.11	5.96	10.00	34.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	0.53	0.24	0.30	1.00
SULFATE DISSOLVED (MG/L AS SO4)	7	10.04	1.72	7.90	12.40
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.14	0.05	0.10	0.20
SILICA, DISSOLVED (MG/L AS SIO2)	7	12.49	1.59	9.40	14.30
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	2.00	1.41	1.00	3.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	57.00	7.18	45.00	63.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	4.57	6.29	0.00	18.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.22	0.18	0.06	0.52
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.21	0.17	0.06	0.51
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.01	0.01	0.00	0.02
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.01	0.02	0.00	0.04
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.92	2.00	0.00	5.40
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.93	1.99	0.01	5.40
NITROGEN, TOTAL (MG/L AS N)	7	1.16	1.97	0.07	5.50
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	0.42	0.14	0.30	0.70

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07107900 STATION NAME OR LOCAL IDENTIFIER=GREENHORN CREEK NEAR RYE

SITE NUMBER 56 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	0.50	0.71	0.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	4	0.50	0.58	0.00	1.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	0.00	0.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	8.25	14.52	0.00	34.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	130.00	42.43	100.00	160.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	32.50	58.39	0.00	120.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	2.00	1.41	1.00	3.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	4.50	6.36	0.00	9.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	5.00	7.07	0.00	10.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	4	0.18	0.15	0.10	0.40
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	4.50	3.54	2.00	7.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	0.00		0.00	0.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	2	0.00	0.00	0.00	0.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	25.00	7.07	20.00	30.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=375451045249[illegible] STATION NAME OR LOCAL IDENTIFIER=COLD SPRING CREEK AT MOUTH NEAR RYE

SITE NUMBER 56A ON PLATE I

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	7	14.86	5.52	6.50	21.50
SPECIFIC CONDUCTANCE (MICROMHOS)	7	568.57	77.53	460.00	700.00
OXYGEN, DISSOLVED (MG/L)	6	9.00	1.37	7.00	11.20
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	24.43	2.76	20.00	29.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	3.98	0.77	3.10	5.10
CALCIUM DISSOLVED (MG/L AS CA)	7	70.43	7.21	61.00	81.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	7	14.43	1.90	11.00	16.00
HARDNESS (MG/L AS CACO3)	7	235.71	22.99	210.00	270.00
HARDNESS, NONCARBONATE (MG/L CACO3)	7	45.43	13.05	26.00	63.00
ALKALINITY (MG/L AS CACO3)	7	190.00	14.14	170.00	210.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	6.29	1.18	4.60	7.70
SULFATE DISSOLVED (MG/L AS SO4)	7	91.71	20.50	63.00	120.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.40	0.00	0.40	0.40
SILICA, DISSOLVED (MG/L AS SIO2)	7	19.57	1.90	17.00	22.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	8.50	2.12	7.00	10.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	355.20	33.73	306.00	388.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	6.43	11.72	0.00	32.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.33	0.29	0.06	0.93
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.29	0.28	0.02	0.86
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.04	0.02	0.01	0.07
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.02	0.02	0.00	0.04
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	0.50	0.68	0.01	2.00
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	0.51	0.68	0.01	2.00
NITROGEN, TOTAL (MG/L AS N)	7	0.84	0.61	0.15	2.10
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	0.77	0.24	0.55	1.20

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=375545104524600 STATION NAME OR LOCAL IDENTIFIER=COLD SPRING CREEK AT MOUTH NEAR RYE

SITE NUMBER 56A ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	0.00	0.00	0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	1.00	0.00	1.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	0.50	0.71	0.00	1.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	0.00	0.00	0.00	0.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	2	0.00	0.00	0.00	0.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	210.00	155.56	100.00	320.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	2	8.50	0.71	8.00	9.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	8.50	2.12	7.00	10.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	15.00	21.21	0.00	30.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	20.00	28.28	0.00	40.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	2	0.05	0.07	0.00	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	4.50	0.71	4.00	5.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	5.00		5.00	5.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	2	4.50	2.12	3.00	6.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	15.00	7.07	10.00	20.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07134050 STATION NAME OR LOCAL IDENTIFIER=GREENHORN CREEK NEAR COLORADO CITY

SITE NUMBER 57 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	15	17.00	4.14	7.00	23.00
SPECIFIC CONDUCTANCE (MICROMHOS)	15	1254.40	438.11	445.00	2100.00
OXYGEN, DISSOLVED (MG/L)	14	8.64	2.21	4.00	12.40
TURBIDITY (NTU)	6	6.50	3.84	2.50	12.00
SODIUM, DISSOLVED (MG/L AS NA)	13	51.15	21.23	16.00	93.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	5.14	1.83	2.50	7.00
CALCIUM DISSOLVED (MG/L AS CA)	15	173.33	66.36	56.00	320.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	15	45.87	18.78	13.00	87.00
HARDNESS (MG/L AS CACO3)	15	624.67	250.02	190.00	1200.00
HARDNESS, NONCARBONATE (MG/L CACO3)	15	421.33	198.78	120.00	900.00
ALKALINITY (MG/L AS CACO3)	15	200.67	55.13	73.00	260.00
BICARBONATE (MG/L AS HCO3)	6	237.50	54.99	132.00	286.00
CARBONATE (MG/L AS CO3)	6	1.83	4.49	0.00	11.00
CHLORIDE, DISSOLVED (MG/L AS CL)	13	19.61	9.35	5.50	38.00
SULFATE DISSOLVED (MG/L AS SO4)	13	490.77	204.47	160.00	970.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	0.34	0.05	0.30	0.40
SILICA, DISSOLVED (MG/L AS SIO2)	13	17.62	3.31	13.00	22.00
IRON, DISSOLVED (UG/L AS FE)	2	5.00	7.07	0.00	10.00
MANGANESE, DISSOLVED (UG/L AS MN)	4	167.50	79.74	80.00	240.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	11	853.64	263.28	352.00	1250.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	13	23.62	40.17	0.00	151.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	13	0.89	0.92	0.10	3.10
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	13	0.47	0.40	0.00	1.30
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	13	0.43	0.69	0.01	2.10
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.18	0.14	0.00	0.38
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	1.57	2.43	0.15	7.00
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	13	1.15	1.87	0.14	7.20
NITROGEN, TOTAL (MG/L AS N)	13	2.05	2.19	0.30	8.30
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	6	0.17	0.10	0.06	0.28
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	11	3.80	3.59	0.80	12.70

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07104050 STATION NAME OR LOCAL IDENTIFIER=BIRE HORN CREEK NEAR COLORADO CITY

SITE NUMBER 57 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	4	2.50	5.00	0.00	10.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	1.00	0.00	1.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	6	2.00	3.95	0.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	5.00	7.07	0.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	16.00	22.98	2.00	50.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	2	5.00	7.07	0.00	10.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	4	250.00	74.39	140.00	300.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	10.50	9.26	4.00	24.00
MANGANESE, DISSOLVED (UG/L AS MN)	4	167.50	79.74	80.00	240.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	10.00	14.14	0.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	4	180.00	84.46	80.00	250.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	4	0.10	0.08	0.00	0.20
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	7.00	1.41	6.00	8.00
SELENIUM, DISSOLVED (UG/L AS SE)	3	5.00	4.00	1.00	9.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	3	12.33	7.09	6.00	20.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.00	0.00	0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	4	2.53	4.98	0.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	2	40.00	14.14	30.00	50.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381138104341600 STATION NAME OR LOCAL IDENTIFIER=ST CHARLES R. AB POWER PLANT OUTFALL NEAR PUEBLO

SITE NUMBER 58 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	8	17.69	10.42	2.00	29.00
SPECIFIC CONDUCTANCE (MICROMHOS)	8	2416.25	739.09	900.00	3450.00
OXYGEN, DISSOLVED (MG/L)	8	8.35	1.97	6.00	10.80
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	6	142.50	67.62	71.00	264.00
POTASSIUM, DISSOLVED (MG/L AS K)	4	7.85	1.56	5.90	9.10
CALCIUM DISSOLVED (MG/L AS CA)	8	258.75	85.09	120.00	410.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	8	78.75	37.99	28.00	150.00
HARDNESS (MG/L AS CACO3)	8	971.25	353.81	420.00	1600.00
HARDNESS, NONCARBONATE (MG/L CACO3)	8	857.50	355.96	300.00	1500.00
ALKALINITY (MG/L AS CACO3)	8	121.50	29.27	75.00	160.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	6	29.17	21.46	12.00	71.00
SULFATE DISSOLVED (MG/L AS SO4)	6	1121.67	390.20	710.00	1800.00
FLUORIDE, DISSOLVED (MG/L AS F)	6	0.60	0.09	0.50	0.70
SILICA, DISSOLVED (MG/L AS SIO2)	6	6.12	2.48	3.00	10.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	30.00	14.14	20.00	40.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	4	1777.50	756.10	1130.00	2800.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	6	60.17	126.64	0.00	318.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	6	0.88	1.02	0.29	2.90
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	6	0.81	1.00	0.25	2.80
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	6	0.06	0.03	0.03	0.11
NITROGEN, NITRITE TOTAL (MG/L AS N)	6	0.07	0.06	0.00	0.16
NITROGEN, NITRATE TOTAL (MG/L AS N)	6	3.74	6.52	0.08	17.00
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	6	3.78	6.51	0.08	17.00
NITROGEN, TOTAL (MG/L AS N)	6	4.66	7.55	0.37	20.00
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	6	2.28	2.43	0.20	7.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381130104341500 STATION NAME OR LOCAL IDENTIFIER=ST CHARLES R. AB POWER PLANT OUTFALL NEAR PUEBLO

SITE NUMBER 58 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	4	15.00	23.80	0.00	50.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	1.00	0.00	1.00	1.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	10.00	0.00	10.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	9.00	4.24	3.00	13.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	300.00	56.57	260.00	340.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	12.00	3.74	7.00	16.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	30.00	14.14	20.00	40.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	15.00	7.07	10.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	45.00	21.21	30.00	60.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	4	0.10	0.08	0.00	0.20
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	8.50	0.71	8.00	9.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	280.00		280.00	280.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	4	33.00	19.71	9.00	54.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	32.50	18.93	20.00	60.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381202104324700 STATION NAME OR LOCAL IDENTIFIER=ST CHARLES R. BL POWER PLANT OUTFALL NEAR PUEBLO

SITE NUMBER 59 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	9	19.00	7.34	8.00	28.50
SPECIFIC CONDUCTANCE (MICROMHOS)	9	1712.22	316.93	980.00	2020.00
OXYGEN, DISSOLVED (MG/L)	9	9.73	2.49	6.00	13.40
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	7	117.57	20.53	83.00	140.00
POTASSIUM, DISSOLVED (MG/L AS K)	5	9.82	2.37	7.00	13.00
CALCIUM DISSOLVED (MG/L AS CA)	9	211.11	47.81	120.00	280.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	9	60.00	27.27	14.00	114.00
HARDNESS (MG/L AS CACO3)	9	780.00	207.06	430.00	1200.00
HARDNESS, NONCARBONATE (MG/L CACO3)	9	687.73	211.80	310.00	1100.00
ALKALINITY (MG/L AS CACO3)	9	88.78	20.46	59.00	120.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	7	30.71	13.38	10.00	49.00
SULFATE DISSOLVED (MG/L AS SO4)	7	892.86	125.93	760.00	1100.00
FLUORIDE, DISSOLVED (MG/L AS F)	7	1.10	0.35	0.70	1.70
SILICA, DISSOLVED (MG/L AS SIO2)	7	8.27	3.50	4.00	13.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	40.00	0.00	40.00	40.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	5	1308.00	131.61	1210.00	1520.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	7	179.71	454.34	0.00	1210.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	0.78	0.65	0.41	2.20
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.68	0.65	0.32	2.10
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.10	0.04	0.06	0.17
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.03	0.03	0.04	0.12
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	1.59	1.14	0.80	4.10
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	1.67	1.15	0.90	4.20
NITROGEN, TOTAL (MG/L AS N)	7	2.47	1.22	1.40	4.70
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	4.27	3.57	0.70	10.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381202144324700 STATION NAME OR LOCAL IDENTIFIER=St CHARLES R. BL POWER PLANT OUTFALL NEAR PUEBLO

SITE NUMBER 59 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	4	132.50	116.44	30.00	300.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	2	1.50	0.71	1.00	2.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECO.. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	2	5.00	7.07	0.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	9.50	9.54	0.00	20.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	165.00	91.92	100.00	230.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	14.75	14.17	0.00	34.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	40.00	0.00	40.00	40.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	2	15.00	7.07	10.00	20.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	55.00	7.07	50.00	60.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	4	0.08	0.10	0.00	0.20
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	2	8.00	1.41	7.00	9.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	24.00		24.00	24.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	4	26.75	11.00	11.00	36.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	0.05	0.00	0.05	0.05
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	102.50	55.60	20.00	140.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381556104273300 STATION NAME OR LOCAL IDENTIFIER=ST. CHARLES RIVER AT MOUTH NEAR VINELAND

SITE NUMBER 26 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	14	19.32	6.76	7.00	28.00
SPECIFIC CONDUCTANCE (MICROMHOS)	14	2347.14	573.36	560.00	2910.00
OXYGEN, DISSOLVED (MG/L)	13	10.18	1.96	6.90	13.60
TURBIDITY (NTU)	5	37.94	62.83	3.00	150.00
SODIUM, DISSOLVED (MG/L AS NA)	14	127.14	36.25	20.00	160.00
POTASSIUM, DISSOLVED (MG/L AS K)	6	7.82	1.68	6.30	11.00
CALCIUM DISSOLVED (MG/L AS CA)	14	305.79	80.60	61.00	390.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	14	105.00	35.83	16.00	160.00
HARDNESS (MG/L AS CACO3)	14	1192.86	339.47	220.00	1600.00
HARDNESS, NONCARBONATE (MG/L CACO3)	14	1049.29	313.63	130.00	1400.00
ALKALINITY (MG/L AS CACO3)	14	159.00	26.82	87.00	190.00
BICARBONATE (MG/L AS HCO3)	6	190.67	29.78	143.00	221.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	14	32.53	9.07	7.40	44.00
SULFATE DISSOLVED (MG/L AS SO4)	14	1230.71	358.38	200.00	1700.00
FLUORIDE, DISSOLVED (MG/L AS F)	8	0.83	0.21	0.40	1.00
SILICA, DISSOLVED (MG/L AS SIO2)	14	8.64	2.89	2.70	13.00
IRON, DISSOLVED (UG/L AS FE)	2	15.00	7.07	10.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	5	238.00	144.64	20.00	420.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	12	1910.42	566.33	375.00	2550.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	14	83.43	163.22	0.00	568.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	14	0.95	0.56	0.41	2.40
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	14	0.85	0.55	0.32	2.30
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	14	0.09	0.05	0.00	0.21
NITROGEN, NITRITE TOTAL (MG/L AS N)	8	0.17	0.07	0.10	0.27
NITROGEN, NITRATE TOTAL (MG/L AS N)	8	4.33	5.09	0.44	14.00
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	14	2.73	4.29	0.00	14.00
NITROGEN, TOTAL (MG/L AS N)	14	3.66	4.36	0.41	15.00
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	6	0.09	0.09	0.01	0.25
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	13	3.06	3.06	1.30	13.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381556134273300 STATION NAME OR LOCAL IDENTIFIER=ST. CHARLES RIVER AT MOUTH NEAR VINELAND

SITE NUMBER 26 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	5	2.00	4.47	0.00	10.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	3	2.67	2.08	1.00	5.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	5	2.00	4.22	0.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	3	6.67	5.77	0.00	10.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	3	16.67	15.28	0.00	30.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	2	15.00	7.07	10.00	20.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	5	6916.00	9534.13	490.00	23000.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	3	26.67	27.30	8.00	58.00
MANGANESE, DISSOLVED (UG/L AS MN)	5	238.00	144.64	20.00	420.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	3	143.33	149.78	20.00	310.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	5	380.00	106.54	240.00	520.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	3	0.07	0.06	0.00	0.10
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	3	11.33	9.50	2.00	21.00
SELENIUM, DISSOLVED (UG/L AS SE)	3	52.33	67.28	12.00	134.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	4	24.50	10.66	13.00	38.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.00	0.00	0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	5	2.00	4.44	0.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	3	66.67	63.51	30.00	144.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07189500 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR AVONDALE

SITE NUMBER 29 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	16	19.16	5.12	10.50	28.00
SPECIFIC CONDUCTANCE (MICROMHOS)	16	685.75	251.20	326.00	1164.00
OXYGEN, DISSOLVED (MG/L)	14	7.23	1.41	5.60	11.10
TURBIDITY (NTU)	6	66.13	115.37	6.80	300.00
SODIUM, DISSOLVED (MG/L AS NA)	15	38.53	22.07	17.00	82.00
POTASSIUM, DISSOLVED (MG/L AS K)	8	3.88	1.14	2.60	5.60
CALCIUM DISSOLVED (MG/L AS CA)	16	66.88	25.13	12.00	114.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	16	21.50	8.70	11.00	38.00
HARDNESS (MG/L AS CACO3)	16	255.63	89.62	150.00	430.00
HARDNESS, NONCARBONATE (MG/L CACO3)	16	141.13	64.22	13.00	260.00
ALKALINITY (MG/L AS CACO3)	16	113.44	32.74	64.00	170.00
BICARBONATE (MG/L AS HCO3)	6	128.17	32.75	98.00	182.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	15	15.15	9.43	5.70	34.00
SULFATE DISSOLVED (MG/L AS SO4)	15	202.27	87.92	86.00	390.00
FLUORIDE, DISSOLVED (MG/L AS F)	9	0.79	0.30	0.50	1.20
SILICA, DISSOLVED (MG/L AS SIO2)	15	7.33	1.62	3.30	9.50
IRON, DISSOLVED (UG/L AS FE)	4	12.50	12.58	0.00	30.00
MANGANESE, DISSOLVED (UG/L AS MN)	7	29.57	32.95	1.00	100.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	13	391.38	153.25	217.00	773.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	14	370.43	731.49	18.00	2640.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	14	1.14	1.12	0.14	4.30
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	14	1.01	1.14	0.05	4.30
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	15	0.09	0.12	0.00	0.42
NITROGEN, NITRITE TOTAL (MG/L AS N)	9	0.13	0.08	0.02	0.30
NITROGEN, NITRATE TOTAL (MG/L AS N)	9	1.45	0.79	0.53	2.80
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	1	2.00		2.00	2.00
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	15	1.53	0.64	0.55	2.90
NITROGEN, TOTAL (MG/L AS N)	14	2.69	1.33	1.00	5.50
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	1	0.35		0.35	0.35
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	1	0.46		0.46	0.46
PHOSPHORUS, TOTAL (MG/L AS P)	7	0.35	0.26	0.17	0.81
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	14	5.53	4.18	2.00	16.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07149544 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR AVONDALE

SITE NUMBER 29 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	6	25.00	28.81	0.00	70.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	3	4.67	2.52	2.00	7.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	3	0.33	0.58	0.00	1.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	6	2.33	3.83	0.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	2	0.00	0.00	0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	1	4.00		4.00	4.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	26.00	30.07	4.00	70.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	1	1.00		1.00	1.00
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	1	8.00		8.00	8.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	39.75	34.93	9.00	90.00
CYANIDE DISSOLVED (MG/L AS CN)	1	0.00		0.00	0.00
CYANIDE TOTAL (MG/L AS CN)	3	0.03	0.01	0.00	0.01
IRON, DISSOLVED (UG/L AS FE)	3	16.67	11.55	10.00	30.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	6	20933.33	27419.90	1000.00	73000.00
LEAD, DISSOLVED (UG/L AS PB)	1	0.00		0.00	0.00
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	1	10.00		10.00	10.00
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	78.25	61.96	10.00	160.00
MANGANESE, DISSOLVED (UG/L AS MN)	6	34.33	33.36	6.00	100.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	4	580.00	759.25	90.00	1700.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	535.00	616.85	40.00	1700.00
MERCURY DISSOLVED (UG/L AS HG)	3	0.03	0.00	0.00	0.00
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	1	0.10		0.10	0.10
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	6	0.03	0.08	0.00	0.20
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	1	4.00		4.00	4.00
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	1	9.00		9.00	9.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	31.00	23.79	13.00	66.00
SELENIUM, DISSOLVED (UG/L AS SE)	3	1.00	1.00	0.00	2.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	4	7.50	3.11	3.00	10.00
SILVER, DISSOLVED (UG/L AS AG)	3	0.01	0.02	0.00	0.03
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	6	2.01	3.93	0.12	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	2	8.30	5.23	4.60	12.00
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	1	20.00		20.00	20.00
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	1	50.00		50.00	50.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	182.50	137.93	70.00	380.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381441042342Ø4 STATION NAME OR LOCAL IDENTIFIER=SIX MILE CREEK AT MOUTH NEAR AVONDALE

SITE NUMBER 30 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	14	19.82	5.07	12.00	27.50
SPECIFIC CONDUCTANCE (MICROMHOS)	14	2520.00	345.99	1850.00	2850.00
OXYGEN, DISSOLVED (MG/L)	13	9.68	1.60	7.10	12.60
TURBIDITY (NTU)	6	21.13	14.39	2.10	45.00
SODIUM, DISSOLVED (MG/L AS NA)	6	130.00	12.65	110.00	144.00
POTASSIUM, DISSOLVED (MG/L AS K)	Ø				
CALCIUM DISSOLVED (MG/L AS CA)	6	330.00	36.88	300.00	390.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	123.33	12.11	110.00	140.00
HARDNESS (MG/L AS CACO3)	6	1333.33	121.11	1200.00	1501.00
HARDNESS, NONCARBONATE (MG/L CACO3)	6	1113.33	136.48	990.00	1300.00
ALKALINITY (MG/L AS CACO3)	6	216.33	15.19	192.00	235.00
BICARBONATE (MG/L AS HCO3)	6	263.83	18.56	234.00	287.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	14	24.90	5.57	9.60	32.00
SULFATE DISSOLVED (MG/L AS SO4)	6	1300.00	154.92	1100.00	1500.00
FLUORIDE, DISSOLVED (MG/L AS F)	Ø				
SILICA, DISSOLVED (MG/L AS SIO2)	6	20.17	2.64	16.00	23.00
IRON, DISSOLVED (UG/L AS FE)	2	15.00	7.07	10.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	50.00	0.00	50.00	50.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	1	2300.00		2300.00	2300.00
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	6	2056.67	216.21	1780.00	2350.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	14	36.14	29.56	4.00	98.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	Ø				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	7	1.15	1.36	0.30	4.20
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	Ø				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	7	0.64	0.28	0.26	1.20
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	Ø				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.47	1.12	0.00	3.00
NITROGEN, NITRITE TOTAL (MG/L AS N)	Ø				
NITROGEN, NITRATE TOTAL (MG/L AS N)	Ø				
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	Ø				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	14	5.21	1.39	2.60	8.40
NITROGEN, TOTAL (MG/L AS N)	7	5.84	1.89	4.30	9.90
NITROGEN, DISSOLVED (MG/L AS N)	Ø				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	Ø				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	7	0.01	0.01	0.00	0.02
PHOSPHORUS, DISSOLVED (MG/L AS P)	1	0.02		0.02	0.02
PHOSPHORUS, TOTAL (MG/L AS P)	14	0.04	0.02	0.00	0.08
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	6	1.32	0.89	0.60	2.80

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=351444104234204 STATION NAME OR LOCAL IDENTIFIER=SIXMILE CREEK AT MOUTH NEAR AVONDALE

SITE NUMBER 30 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	10.00	14.14	0.00	20.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	0				
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	5.00	7.07	0.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	0				
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	0				
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	0				
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	0				
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	2	15.00	7.07	10.00	20.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	1400.00	141.42	1300.00	1500.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	50.00	0.00	50.00	50.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	0				
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	85.00	7.07	80.00	90.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	0				
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	0				
SELENIUM, DISSOLVED (UG/L AS SE)	2	15.00	8.49	9.00	21.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	1	23.00		23.00	23.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.00	0.00	0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	5.00	7.07	0.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	0				

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07116500 STATION NAME OR LOCAL IDENTIFIER=HUERFANO RIVER NEAR NEPESTA

SITE NUMBER 34 ON PLATE I

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	4	27.00	3.16	24.00	31.00
SPECIFIC CONDUCTANCE (MICROMHOS)	4	4212.50	2190.33	1800.00	7000.00
OXYGEN, DISSOLVED (MG/L)	4	6.85	0.95	5.90	7.90
TURBIDITY (NTU)	4	9.00	11.54	1.00	26.00
SODIUM, DISSOLVED (MG/L AS NA)	4	422.50	205.16	160.00	630.00
POTASSIUM, DISSOLVED (MG/L AS K)	0				
CALCIUM DISSOLVED (MG/L AS CA)	4	305.00	138.20	130.00	430.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	4	234.75	124.91	79.00	370.00
HARDNESS (MG/L AS CACO3)	4	1737.50	855.74	650.00	2600.00
HARDNESS, NONCARBONATE (MG/L CACO3)	4	1475.00	793.20	500.00	2300.00
ALKALINITY (MG/L AS CACO3)	4	236.25	57.02	152.00	276.00
BICARBONATE (MG/L AS HCO3)	4	287.75	69.52	185.00	336.00
CARBONATE (MG/L AS CO3)	4	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	4	91.75	46.96	36.00	150.00
SULFATE DISSOLVED (MG/L AS SO4)	4	2245.00	1158.78	780.00	3400.00
FLUORIDE, DISSOLVED (MG/L AS F)	0				
SILICA, DISSOLVED (MG/L AS SIO2)	4	10.50	2.41	7.80	13.00
IRON, DISSOLVED (UG/L AS FE)	1	10.00		10.00	10.00
MANGANESE, DISSOLVED (UG/L AS MN)	1	480.00		480.00	480.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	4	3452.50	1703.30	1290.00	5160.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	4	18.25	19.17	0.00	45.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	4	0.34	0.12	0.20	0.47
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	4	0.31	0.21	0.00	0.45
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	4	0.03	0.10	0.02	0.22
NITROGEN, NITRITE TOTAL (MG/L AS N)	0				
NITROGEN, NITRATE TOTAL (MG/L AS N)	0				
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	4	0.10	0.09	0.01	0.22
NITROGEN, TOTAL (MG/L AS N)	4	0.48	0.08	0.42	0.58
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	4	0.03	0.04	0.00	0.08
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	4	2.22	2.53	0.70	6.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07116500 STATION NAME OR LOCAL IDENTIFIER=RIO GRANDO RIVER NEAR NEPESTA

SITE NUMBER 34 ON PLATE I

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	1	0.00		0.00	0.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	0				
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	1	0.00		0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	1	10.00		10.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	0				
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	0				
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	0				
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	0				
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	1	10.00		10.00	10.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	1	170.00		170.00	170.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	1	480.00		480.00	480.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	0				
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	1	500.00		500.00	500.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	0				
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	0				
SELENIUM, DISSOLVED (UG/L AS SE)	1	2.00		2.00	2.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	1	4.00		4.00	4.00
SILVER, DISSOLVED (UG/L AS AG)	1	0.00		0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	1	10.00		10.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	0				

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381336104142400 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS R AT ROCKY FORD HIGHLINE CANAL HEADGATE

SITE NUMBER 35 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	6	20.83	5.23	15.50	27.50
SPECIFIC CONDUCTANCE (MICROMHOS)	6	710.33	178.13	475.00	925.00
OXYGEN, DISSOLVED (MG/L)	6	6.83	0.58	6.00	7.40
TURBIDITY (NTU)	6	32.83	17.77	13.00	65.00
SODIUM, DISSOLVED (MG/L AS NA)	6	37.83	12.32	22.00	53.00
POTASSIUM, DISSOLVED (MG/L AS K)	0				
CALCIUM DISSOLVED (MG/L AS CA)	6	76.54	18.19	48.00	99.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	6	23.33	7.00	14.00	31.00
HARDNESS (MG/L AS CACO3)	6	285.00	71.20	180.00	370.00
HARDNESS, NONCARBONATE (MG/L CACO3)	6	176.50	54.57	99.00	250.00
ALKALINITY (MG/L AS CACO3)	6	111.00	24.84	79.00	146.00
BICARBONATE (MG/L AS HCO3)	6	135.17	30.33	96.00	178.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	6	15.02	5.64	8.00	22.00
SULFATE DISSOLVED (MG/L AS SO4)	6	223.33	64.08	130.00	314.00
FLUORIDE, DISSOLVED (MG/L AS F)	0				
SILICA, DISSOLVED (MG/L AS SIO2)	6	6.58	1.74	4.10	9.60
IRON, DISSOLVED (UG/L AS FE)	2	10.00	14.14	0.00	20.00
MANGANESE, DISSOLVED (UG/L AS MN)	2	15.00	7.07	10.00	20.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	6	449.33	118.32	276.00	598.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	6	201.83	221.23	53.00	621.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	6	0.57	0.15	0.36	0.76
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	6	0.54	0.14	0.34	0.70
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	6	0.03	0.02	0.00	0.06
NITROGEN, NITRITE TOTAL (MG/L AS N)	0				
NITROGEN, NITRATE TOTAL (MG/L AS N)	0				
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	6	1.55	0.40	1.10	2.10
NITROGEN, TOTAL (MG/L AS N)	6	2.13	0.48	1.60	2.70
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	6	0.29	0.06	0.20	0.36
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	6	3.45	4.20	1.30	12.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381336104142400 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS R AT ROCKY FORD HIGHLINE CANAL HEADGATE

SITE NUMBER 35 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	2	20.00	0.00	20.00	20.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	0				
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	2	0.00	0.00	0.00	0.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	2	5.50	6.36	1.00	10.00
CHROMIUM, DISSOLVED (UG/L AS CR)	0				
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	0				
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	0				
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	0				
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	2	10.00	14.14	0.00	20.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	2	3050.00	70.71	3000.00	3100.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	2	15.00	7.07	10.00	20.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	0				
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	2	110.00	14.14	100.00	120.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	0				
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	0				
SELENIUM, DISSOLVED (UG/L AS SE)	2	5.00	2.83	3.00	7.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	1	7.00		7.00	7.00
SILVER, DISSOLVED (UG/L AS AG)	2	0.00	0.00	0.00	0.00
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	2	5.00	7.07	0.00	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	0				

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381317104135400 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER BL ROCKY FORD HIGHLINE HEADGATE

SITE NUMBER 61 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	8	18.75	4.86	9.00	23.50
SPECIFIC CONDUCTANCE (MICROMHOS)	8	772.87	265.09	400.00	1210.00
OXYGEN, DISSOLVED (MG/L)	6	7.21	0.85	5.90	8.10
TURBIDITY (NTU)	0				
SODIUM, DISSOLVED (MG/L AS NA)	8	49.54	23.92	23.00	94.00
POTASSIUM, DISSOLVED (MG/L AS K)	6	4.38	2.18	2.70	8.20
CALCIUM DISSOLVED (MG/L AS CA)	8	79.50	25.33	45.00	120.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	8	24.88	9.55	14.00	42.00
HARDNESS (MG/L AS CACO3)	8	301.25	101.06	170.00	470.00
HARDNESS, NONCARBONATE (MG/L CACO3)	8	186.00	71.27	89.00	300.00
ALKALINITY (MG/L AS CACO3)	8	115.63	30.85	81.00	170.00
BICARBONATE (MG/L AS HCO3)	0				
CARBONATE (MG/L AS CO3)	0				
CHLORIDE, DISSOLVED (MG/L AS CL)	8	18.10	10.87	7.70	36.00
SULFATE DISSOLVED (MG/L AS SO4)	8	261.25	104.06	130.00	434.00
FLUORIDE, DISSOLVED (MG/L AS F)	8	0.75	0.26	0.50	1.10
SILICA, DISSOLVED (MG/L AS SIO2)	8	9.53	2.91	6.00	16.00
IRON, DISSOLVED (UG/L AS FE)	0				
MANGANESE, DISSOLVED (UG/L AS MN)	3	66.67	55.08	30.00	130.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	6	479.00	200.69	289.00	837.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	8	1197.75	2764.81	1.00	8020.00
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	6	1.13	0.95	0.18	2.80
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	6	1.00	0.96	0.14	2.80
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	7	0.11	0.26	0.00	0.70
NITROGEN, NITRITE TOTAL (MG/L AS N)	7	0.07	0.04	0.02	0.14
NITROGEN, NITRATE TOTAL (MG/L AS N)	7	1.44	0.74	0.68	2.90
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	0				
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	7	1.50	0.77	0.70	3.00
NITROGEN, TOTAL (MG/L AS N)	6	2.77	1.42	1.50	4.70
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	0				
PHOSPHORUS, DISSOLVED (MG/L AS P)	0				
PHOSPHORUS, TOTAL (MG/L AS P)	0				
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	7	8.96	6.99	1.50	19.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=381317104135401 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER BL ROCKY FORD HIGHLINE HEADGATE

SITE NUMBER 61 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	3	240.00	314.32	20.00	600.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	3	9.00	7.94	3.00	18.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	0				
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	3	1.67	1.15	1.00	3.00
CHROMIUM, DISSOLVED (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	4.00		4.00	4.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	0				
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	3	56.67	72.34	10.00	140.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	0				
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	0				
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	3	90.00	104.40	20.00	210.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	0				
IRON, DISSOLVED (UG/L AS FE)	0				
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	0				
IRON, TOTAL RECOVERABLE (UG/L AS FE)	3	66466.67	89819.00	9400.00	170000.00
LEAD, DISSOLVED (UG/L AS PB)	0				
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	0				
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	3	77.67	71.51	31.00	160.00
MANGANESE, DISSOLVED (UG/L AS MN)	3	66.67	55.08	30.00	130.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	3	1650.00	2302.41	140.00	4300.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	3	1703.33	2252.83	270.00	4300.00
MERCURY DISSOLVED (UG/L AS HG)	0				
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	0				
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	3	0.13	0.15	0.00	0.30
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	0				
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	0				
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	3	67.00	80.73	15.00	160.00
SELENIUM, DISSOLVED (UG/L AS SE)	1	0.00		0.00	0.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	3	12.00	3.46	8.00	14.00
SILVER, DISSOLVED (UG/L AS AG)	0				
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	3	0.60	0.47	0.18	1.10
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	0				
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	0				
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	3	390.00	417.61	110.00	870.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=471[illegible] STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR NEPESTA

SITE NUMBER 37 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
TEMPERATURE (DEG C)	16	19.34	5.58	6.50	27.00
SPECIFIC CONDUCTANCE (MICROMHOS)	16	751.00	256.29	415.00	1200.00
OXYGEN, DISSOLVED (MG/L)	14	7.43	1.44	5.90	9.30
TURBIDITY (NTU)	6	438.50	961.66	19.00	2400.00
SODIUM, DISSOLVED (MG/L AS NA)	15	44.73	21.62	21.00	91.00
POTASSIUM, DISSOLVED (MG/L AS K)	7	4.21	1.52	2.70	6.90
CALCIUM DISSOLVED (MG/L AS CA)	16	77.19	21.95	45.00	120.00
MAGNESIUM, DISSOLVED (MG/L AS MG)	16	24.88	8.44	13.00	43.00
HARDNESS (MG/L AS CACO3)	16	296.25	86.01	170.00	480.00
HARDNESS, NONCARBONATE (MG/L CACO3)	16	182.88	61.93	84.00	310.00
ALKALINITY (MG/L AS CACO3)	16	113.06	28.64	74.00	170.00
BICARBONATE (MG/L AS HCO3)	6	127.17	28.94	99.00	176.00
CARBONATE (MG/L AS CO3)	6	0.00	0.00	0.00	0.00
CHLORIDE, DISSOLVED (MG/L AS CL)	15	16.19	9.16	5.00	35.00
SULFATE DISSOLVED (MG/L AS SO4)	15	230.00	86.19	110.00	420.00
FLUORIDE, DISSOLVED (MG/L AS F)	9	0.77	0.30	0.30	1.20
SILICA, DISSOLVED (MG/L AS SIO2)	15	7.41	3.02	0.50	14.00
IRON, DISSOLVED (UG/L AS FE)	4	12.50	9.57	0.00	24.00
MANGANESE, DISSOLVED (UG/L AS MN)	7	521.43	1313.75	10.00	3500.00
SOLIDS, RESIDUE AT 180 DEG. C DIS. (MG/L)	0				
SOLIDS, SUM OF CONSTITUENTS, DIS. (MG/L)	13	446.85	157.81	255.00	828.00
SOLIDS, RESIDUE AT 105 DEG. C, SUS. (MG/L)	14	1010.			
NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N)	0				
NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N)	13	1.66	2.43	0.24	9.20
NITROGEN, ORGANIC DISSOLVED (MG/L AS N)	0				
NITROGEN, ORGANIC TOTAL (MG/L AS N)	13	1.60	2.45	0.22	9.20
NITROGEN, AMMONIA DISSOLVED (MG/L AS N)	0				
NITROGEN, AMMONIA TOTAL (MG/L AS N)	14	0.05	0.12	0.00	0.46
NITROGEN, NITRITE TOTAL (MG/L AS N)	8	0.05	0.05	0.02	0.18
NITROGEN, NITRATE TOTAL (MG/L AS N)	8	1.39	0.90	0.00	2.70
NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N)	1	2.20		2.20	2.20
NITROGEN, NO2+NO3 TOTAL (MG/L AS N)	14	1.48	0.73	0.01	2.90
NITROGEN, TOTAL (MG/L AS N)	13	3.24	2.65	0.96	11.00
NITROGEN, DISSOLVED (MG/L AS N)	0				
PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P)	1	0.41		0.41	0.41
PHOSPHORUS, ORTHO, TOTAL (MG/L AS P)	6	0.16	0.07	0.07	0.25
PHOSPHORUS, DISSOLVED (MG/L AS P)	1	0.45		0.45	0.45
PHOSPHORUS, TOTAL (MG/L AS P)	7	0.64	0.64	0.19	2.00
OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L)	14	11.75	17.90	1.30	70.00

Table 19.--*Statistical summary of selected water-quality data for selected sites*--Continued

STATION IDENTIFICATION NUMBER=07117000 STATION NAME OR LOCAL IDENTIFIER=ARKANSAS RIVER NEAR NEPESTA

SITE NUMBER 37 ON PLATE 1

WATER QUALITY CONSTITUENT	N	MEAN	STANDARD DEVIATION	MINIMUM VALUE	MAXIMUM VALUE
ALUMINUM, DISSOLVED (UG/L AS AL)	6	4188.33	10195.62	0.00	25000.00
ARSENIC DISSOLVED (UG/L AS AS)	0				
ARSENIC SUSPENDED TOTAL (UG/L AS AS)	0				
ARSENIC TOTAL (UG/L AS AS)	3	7.67	5.03	3.00	13.00
BARIUM, DISSOLVED (UG/L AS BA)	0				
BARIUM, SUSPENDED RECOVERABLE (UG/L AS BA)	0				
BARIUM, TOTAL RECOVERABLE (UG/L AS BA)	0				
BERYLLIUM, DISSOLVED (UG/L AS BE)	0				
BERYLLIUM, SUSPENDED RECOV. (UG/L AS BE)	0				
BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE)	0				
CADMIUM DISSOLVED (UG/L AS CD)	3	0.33	0.58	0.00	1.00
CADMIUM SUSPENDED RECOVERABLE (UG/L AS CD)	0				
CADMIUM TOTAL RECOVERABLE (UG/L AS CD)	6	6.00	11.85	0.00	30.00
CHROMIUM, DISSOLVED (UG/L AS CR)	2	0.00	0.00	0.00	0.00
CHROMIUM, HEXAVALENT, DIS. (UG/L AS CR)	1	0.00		0.00	0.00
CHROMIUM, SUSPENDED RECOV. (UG/L AS CR)	1	7.00		7.00	7.00
CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR)	4	36.75	49.15	7.00	110.00
COBALT, DISSOLVED (UG/L AS CO)	0				
COBALT, SUSPENDED RECOVERABLE (UG/L AS CD)	0				
COBALT, TOTAL RECOVERABLE (UG/L AS CO)	0				
COPPER, DISSOLVED (UG/L AS CU)	1	2.00		2.00	2.00
COPPER, SUSPENDED RECOVERABLE (UG/L AS CO)	1	8.00		8.00	8.00
COPPER, TOTAL RECOVERABLE (UG/L AS CU)	4	72.50	93.23	10.00	210.00
CYANIDE DISSOLVED (MG/L AS CN)	0				
CYANIDE TOTAL (MG/L AS CN)	4	0.00	0.00	0.00	0.00
IRON, DISSOLVED (UG/L AS FE)	3	16.67	5.77	10.00	23.00
IRON, SUSPENDED RECOVERABLE (UG/L AS FE)	1	3100.00		3100.00	3100.00
IRON, TOTAL RECOVERABLE (UG/L AS FE)	6	59200.00	78647.19	2800.00	170000.00
LEAD, DISSOLVED (UG/L AS PB)	1	0.00		0.00	0.00
LEAD, SUSPENDED RECOVERABLE (UG/L AS PB)	1	10.00		10.00	10.00
LEAD, TOTAL RECOVERABLE (UG/L AS PB)	4	88.75	80.93	10.00	200.00
MANGANESE, DISSOLVED (UG/L AS MN)	6	605.00	1418.62	10.00	3500.00
MANGANESE, SUSPENDED RECOV. (UG/L AS MN)	4	370.00	283.20	120.00	630.00
MANGANESE, TOTAL RECOVERABLE (UG/L AS MN)	6	1361.67	1741.64	80.00	4100.00
MERCURY DISSOLVED (UG/L AS HG)	3	0.00	0.00	0.00	0.00
MERCURY SUSPENDED RECOVERABLE (UG/L AS HG)	1	0.10		0.10	0.10
MERCURY TOTAL RECOVERABLE (UG/L AS HG)	6	0.18	0.13	0.00	0.30
MOLYBDENUM, DISSOLVED (UG/L AS MO)	0				
MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO)	0				
NICKEL, DISSOLVED (UG/L AS NI)	1	7.00		7.00	7.00
NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI)	1	4.00		4.00	4.00
NICKEL, TOTAL RECOVERABLE (UG/L AS NI)	4	51.00	66.55	11.00	150.00
SELENIUM, DISSOLVED (UG/L AS SE)	3	5.67	2.52	3.00	8.00
SELENIUM, SUSPENDED TOTAL (UG/L AS SE)	0				
SELENIUM, TOTAL (UG/L AS SE)	4	11.00	4.55	5.00	16.00
SILVER, DISSOLVED (UG/L AS AG)	3	0.03	0.05	0.00	0.10
SILVER, SUSPENDED RECOVERABLE (UG/L AS AG)	0				
SILVER, TOTAL RECOVERABLE (UG/L AS AG)	6	2.13	3.85	0.12	10.00
STRONTIUM, DISSOLVED (UG/L AS SR)	0				
URANIUM DISSOLVED, EXTRACTION (UG/L)	0				
VANADIUM, DISSOLVED (UG/L AS V)	0				
ZINC, DISSOLVED (UG/L AS ZN)	1	20.00		20.00	20.00
ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN)	1	60.00		60.00	60.00
ZINC, TOTAL RECOVERABLE (UG/L AS ZN)	4	355.00	416.37	80.00	970.00

(PAGE 232 FOLLOWS)

Table 20.--*Water-quality field analyses and laboratory analyses of selected constituents for samples*

[FT^3/s = cubic feet per second;

Site no. on plate 1	Station no.	Date of sample (Y-M-D)	Time	Stream-flow (ft^3/s)	Tem-pera-ture (Deg C)	Specific conduct-ance (micro-mhos)	pH (units)	Total kjeldahl nitrogen (N) (mg/L)	Total organic nitrogen (N) (mg/L)
40	381533104422800	76-05-21	1410	20	-	880	8.0	26	25
41	381557104415700	76-05-21	1515	10	-	1,450	8.0	7.7	7.3
42	381555104411800	76-05-21	1425	8.0	-	950	7.8	13	12
43	381537104410601	76-05-21	1405	2.0	-	1,800	8.0	18	17
		76-05-21	1445	1.0	-	710	7.9	2.4	2.3
44	381556104410301	76-07-13	1805	.10	-	985	7.5	5.9	5.1
45	381608104404501	76-05-21	1430	5.0	-	1,900	7.8	17	16
		76-07-13	1800	2.0	-	1,240	7.7	5.7	48
46	381613104403701	76-07-13	1755	.5	-	460	7.7	19	18
4	381604104394200	76-05-12	0730	-	-	109	8.3	3.2	2.8
		76-05-21	1345	20	-	730	7.3	5.0	4.2
		76-05-21	1400	30	-	970	7.3	4.4	3.1
		76-05-21	1425	25	-	480	7.3	4.1	3.8
		76-05-21	1500	40	-	345	7.7	5.6	5.1
		76-05-21	1530	50	-	235	7.8	3.7	3.3
11	381628104381700	76-05-12	0700	-	-	3,650	7.8	160	160
		76-05-21	1505	[1]150	-	950	8.0	29	29
		76-06-23	1405	50	21.5	370	7.8	12	12
48	381726104354201	76-05-12	0630	-	-	960	7.5	5.0	4.9
		76-06-05	2230	25	-	220	7.3	5.7	5.6
		76-06-05	2238	20	-	156	7.8	3.1	3.1
		76-06-05	2250	10	-	146	8.0	2.5	2.4
		76-06-05	2300	5.0	-	156	7.6	1.5	1.3
		76-06-23	1350	3.0	20.5	140	7.0	1.8	1.7
49	381644104361301	76-05-12	0700	-	-	225	7.0	10	9
		76-06-05	2215	2.0	-	1,300	7.8	4.7	4.1
		76-06-05	2230	25	-	300	7.0	8.4	8.3
		76-06-05	2245	20	-	155	7.4	3.3	3.3
		76-06-05	2300	15	-	173	7.4	2.9	2.7
		76-06-05	2315	5.0	-	207	7.2	2.5	2.4
		76-06-05	2330	5.0	-	223	7.0	2.0	1.8
		76-06-05	2345	4.0	-	248	7.1	2.1	2.0
50	381603104335501	76-05-21	1605	2.0	-	460	7.5	2.7	2.5
		76-06-05	2320	150	-	2,000	8.1	15	15
		76-06-05	2400	100	-	3,000	8.2	44	44
		76-06-23	1315	20	19.5	1,950	7.6	8.0	7.5
		76-06-23	1330	15	19.0	1,320	7.9	13	12
		76-07-13	1850	200	-	1,530	7.9	27	26

[1]Estimated.

collected from small tributaries to the Arkansas River flowing in response to precipitation, 1976

MG/L = milligram per liter; ML = milliliter]

Total ammonia nitrogen (N) (mg/L)	Total nitrite nitrogen (N) (mg/L)	Total nitrate nitrogen (N) (mg/L)	Total nitrogen (N) (mg/L)	Total ortho-phosphate (P) (mg/L)	Total phosphorus (P) (mg/L)	Bio-chemical oxygen demand 5-day (mg/L)	Fecal coliform (colonies per 100 mL)	Fecal streptococci (colonies per 100 mL)
0.64	0.07	0.43	27	0.02	8.8	>70	9,000	24,000
.44	.21	3.4	11	.13	5.4	>70	9,000	60,000
1.2	.50	.50	14	.46	14	>70	700	12,000
1.3	.21	1.2	19	.29	9.8	>70	30,000	71,000
.08	.08	1.0	3.5	.07	.29	>70	25,000	48,000
.76	.40	3.2	9.5	.03	5.0	-	-	-
1.2	.08	.87	18	.04	14	>72	200	22,000
.95	.21	1.7	7.6	.01	7.7	-	-	-
.91	.42	4.3	24	.15	7.0	-	-	-
.39	.04	.66	3.9	.09	.45	-	-	-
.73	1.5	8.3	15	.02	.65	>70	4,000	5,900
1.3	.01	.01	4.4	.03	.62	>70	110,000	93,000
.31	.02	.01	4.1	.12	.85	>70	4,000	51,000
.42	.05	.01	5.7	.04	1.5	>70	11,000	43,000
.39	.03	.00	3.7	.09	1.2	>70	4,000	30,000
.18	.28	31	36	.01	.42	-	-	-
.44	.11	.52	30	.16	10	>70	1,000	73,000
.12	.07	.69	13	.03	6.1	-	140,000	150,000
.11	.08	1.0	6.1	.05	.52	-	-	-
.01	.01	.02	5.7	.04	.93	88	63,000	270,000
.00	.01	.02	3.1	.05	.64	91	45,000	120,000
.05	.01	.02	2.5	.07	.48	55	-	160,000
.18	.03	.32	1.9	.12	.34	51	15,000	120,000
.09	.05	.46	2.3	.13	.44	-	25,000	78,000
.93	.01	.09	10	1.2	2.0	>70	7,600	180,000
.59	.11	.80	5.6	.08	1.3	140	1,000	1,300
.02	.03	.00	8.4	1.6	3.9	>150	-	180,000
.01	.01	.00	3.3	.31	1.2	72	2,000	32,000
.25	.01	.00	2.9	.28	.86	50	3,000	27,000
.09	.14	.44	3.1	.30	.84	44	2,000	92,000
.14	.03	.82	2.9	.27	.63	40	3,000	51,000
.11	.07	.82	3.0	.28	.64	42	4,000	50,000
.19	.11	.19	3.0	.05	1.1	>70	30,000	53,000
.34	.11	1.5	17	.05	47	60	>50,000	44,000
.27	.18	1.6	46	.01	53	58	>50,000	65,000
.48	.60	11	20	.00	9.0	-	75,000	120,000
.53	.39	6.9	20	.02	7.5	-	>110,000	>120,000
.68	.15	.70	28	.11	14	-	-	-

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