Physical, Chemical, Biological, and Toxicity Data from the Study of Urban Stormwater and Ephemeral Streams, Maricopa County, Arizona, Water Years 1992–95

By KENNETH D. FOSSUM and RAYMOND G. DAVIS

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CONVERSION FACTORS

Multiply	By	To obtain
inch (in.)	25.4	millimeter
inch (in.)	2.54	centimeter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
pound (lb)	0.4536	kilogram
square foot (ft^2)	0.0929	square meter
acre	0.4047	hectare
square mile (mi^2)	2.590	square kilometer
cubic foot per second (ft^3/s)	0.02832	cubic meter per second
million gallons per day (Mgal/d)	0.04381	cubic meter per second

In this report, temperature is reported in degrees Celsius (°C), which can be converted to degrees Fahrenheit (°F) by using the following equation:

$$°F = 1.8(°C) + 32$$

ABBREVIATED WATER-QUALITY UNITS

Chemical concentration is given only in metric units. Chemical concentration in water is given in milligrams per liter (mg/L) or micrograms per liter (μg/L). Milligrams per liter is a unit expressing the solute mass (milligrams) per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter. For concentrations less than 7,000 milligrams per liter, the numerical value is about the same as for concentrations in parts per million. Specific conductance is given in microsiemens per centimeter (μS/cm) at 25°C.

VERTICAL DATUM

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

Physical, Chemical, Biological, and Toxicity Data from the Study of Urban Stormwater and Ephemeral Streams, Maricopa County, Arizona, Water Years 1992–95

By Kenneth D. Fossum *and* Raymond G. Davis

Abstract

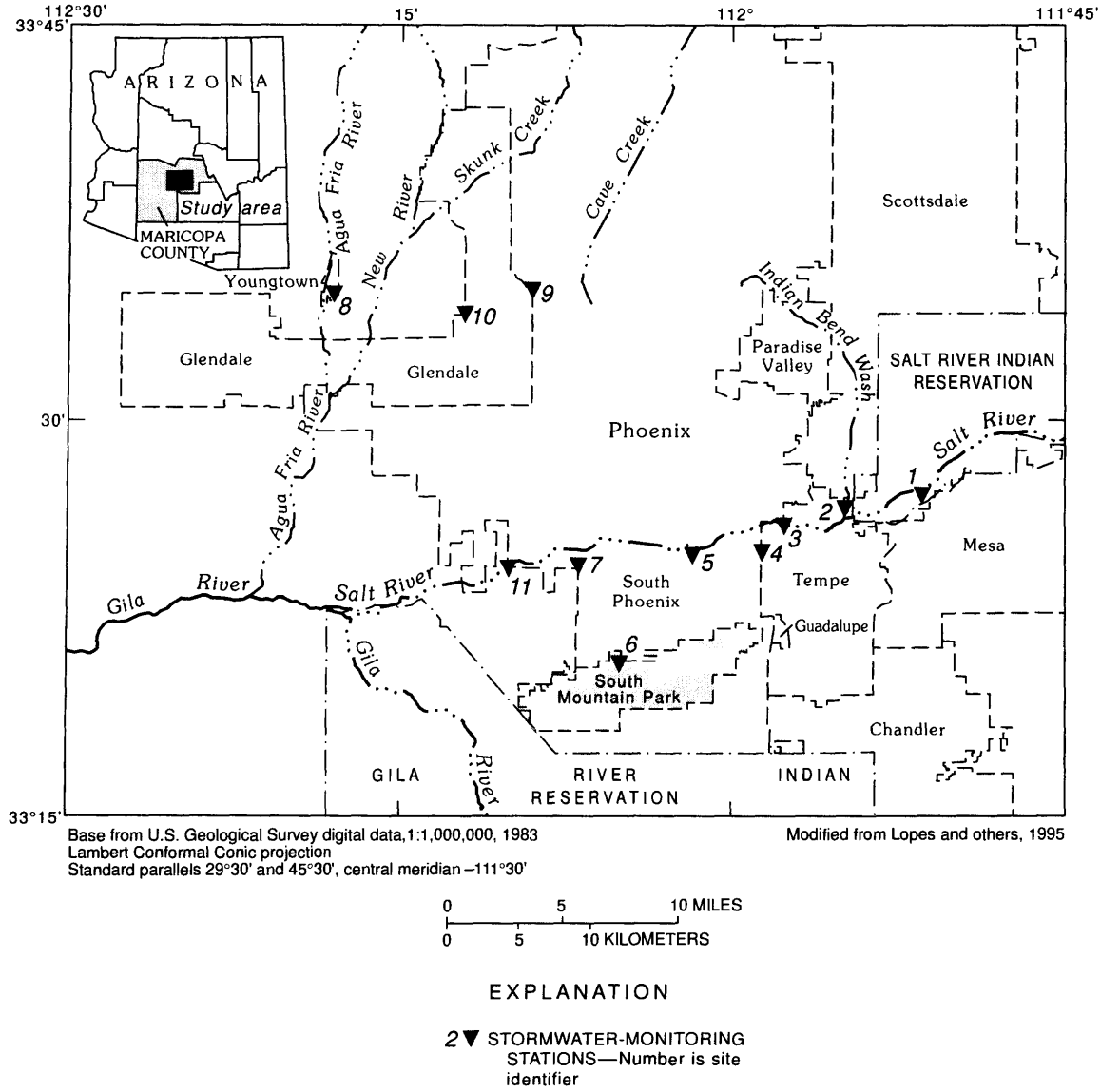
The U.S. Geological Survey monitored stormwater from October 1, 1991, through September 30, 1995, in selected basins in the Phoenix metropolitan area in Maricopa County, Arizona, that are affected by National Pollution Discharge Elimination System regulations. Stormwater was monitored to (1) determine factors that contribute to the variability of stormwater chemistry and toxicity at basins with residential, commercial, light industrial, heavy industrial, and undeveloped land uses; and (2) characterize chemistry and toxicity of Salt River streamflow at various discharge rates and determine if urban runoff from Indian Bend Wash influences chemistry and toxicity of streamflow in the Salt River.

Physical, chemical, biological, and acute toxicity data were collected from stormwater in six single land-use urban drainage basins with residential, commercial, light industrial, heavy industrial, and undeveloped land uses. Physical, chemical, biological and acute toxicity data also were collected at a streamflow-gaging station on Indian Bend Wash, a basin comprised of multiple land uses. Physical, chemical, and biological data were collected at four streamflow-gaging stations on the Salt River.

INTRODUCTION

The U.S. Environmental Protection Agency (USEPA), under section 402(p) of the Water Quality Act of 1987 requires that municipalities with populations of 100,000 or more obtain National Pollution Discharge Elimination System (NPDES) permits for urban stormwater discharge. This permit is intended to identify and characterize source areas of pollutants and therefore provide the framework for reductions in nonpoint loadings from urbanized areas and preserve the quality of streams or lakes that receive urban stormwater. To apply for a NPDES permit, municipalities must characterize the chemistry and toxicity of stormwater and provide data to estimate annual stormwater-pollutant loads and event-mean concentrations of 12 constituents commonly found in stormwater. After the permit is issued, monitoring must continue through the term of the permit. The estimates are used to evaluate the magnitude of pollutant loadings and the efficiency of management strategies used to reduce pollutant loads and to determine if the quality of streams that receive urban runoff is being degraded.

From October 1, 1991, through September 30, 1995, the U.S. Geological Survey (USGS) monitored stormwater in selected basins in the Phoenix metropolitan area in Maricopa County, Arizona (fig. 1). The basins were characterized as residential, commercial, light industrial, heavy industrial, and undeveloped land uses, and water



Site	Station number	Station name	Land use
1	09512060	Salt River at Alma School Road, near Mesa	Channel
2	09512162	Indian Bend Wash at Curry Road, at Tempe	Multiple
3	09512165	Salt River at Priest Drive, near Phoenix[1]	Channel
4	09512184	Box culvert at 48th Street drain, at Tempe[1]	Light Industrial
5	09512190	Salt River at 24th Street, at Phoenix	Channel
6	09512200	Salt River tributary in South Mountain Park, at Phoenix	Undeveloped
7	09512403	27th Avenue at Salt River, at Phoenix[1]	Heavy Industrial
8	09513700	Agua Fria River tributary at Youngtown	Residential
9	09513885	43rd Avenue and Peoria Avenue at Phoenix[1]	Commercial
10	09513925	Olive Avenue and 67th Avenue at Glendale[1]	Residential
11	332427112100601	Salt River at 51st Avenue bridge, at Phoenix	Channel

[1]Revised from Lopes and others, 1995, fig. 1.

Figure 1. Study area and stormwater-monitoring stations, Maricopa County, Arizona.

chemistry and acute toxicity samples were collected and analyzed. The USGS also monitored streamflow from Indian Bend Wash and the Salt River to characterize chemistry and toxicity at various discharge rates and determine if urban runoff from Indian Bend Wash affects the chemistry and toxicity of streamflow in the Salt River. The ongoing study is being done in cooperation with the Flood Control District of Maricopa County (FCDMC).

Purpose and Scope

Physical, chemical, biological, and acute toxicity data were collected from stormwater in six urban drainage basins with residential, commercial, light industrial, heavy industrial, and undeveloped land uses. Physical, chemical, biological, and acute toxicity data also were collected at a streamflow station on Indian Bend Wash. Physical, chemical, and biological data were collected at four streamflow-gaging stations on the Salt River. In the interest of completeness, some data that have been published elsewhere are included here.

Previous Investigations

Previous investigations of the characteristics of urban stormwater and sediment in Maricopa County include Ingersoll and others (1995), Lopes and Fossum (1995), Lopes and others (1995), and Rector (1993). Ingersoll and others (1995) presented data from a study of urban sediments in Maricopa County. Lopes and Fossum (1995) presented results of a study of toxicity of stormwater, streamflow, and bed material in urban Maricopa County. Lopes and others (1995) presented results of a study of the physical, chemical, and microbial characteristics of stormwater from October 1991 to October 1993 at four drainage basins with urban land uses in Maricopa County. Rector (1993) reported on contaminant levels in sediments and in tissues of fish and birds at 22 sites throughout Arizona.

Acknowledgments

Dave Gardner, Catesby Moore, David Phillips, and Roland Wass of FCDMC, provided support and cooperation during the study. Carol Davis, FCDMC; Tom Ankenny, City of Tempe; and Grant Anderson, City of Glendale, obtained permits to install the monitoring stations. Mattie Cahill and Jess and Sons, an automobile recycling company, allowed access through their property at 27th Avenue.

DATA-COLLECTION METHODS

Stream-discharge data, precipitation data, and water samples were collected by the USGS using the following equipment.

- Campbell Scientific Instruments, Inc., CR10 datalogger and SM192 storage module.
- Sierra-Misco Environment Ltd., model 2500 tipping-bucket rain gage.
- Druck PDCR 940 pressure transducer.
- Conoflow and pressure-regulator system.
- Isco, Inc., model 3700 automatic-pumping sampler.
- Motorola MC310 cellular telephone or telephone line.

Measurement of streamflow stage and precipitation and activation of the automatic-pumping sampler were managed by the datalogger. The datalogger was programmed to record gage height and precipitation, calculate stream discharge, and activate the automatic-pumping sampler when a specified volume of water had been discharged from the drainage basin. The datalogger also initiated a telephone call to project personnel when precipitation or discharge was measured so that personnel could make manual discharge measurements and manually collect water samples during runoff. Data were recorded at 1-minute intervals when either rainfall or stream discharge was measured. Data were recorded once a day (at midnight) during dry periods.

Precipitation Measurements

Precipitation was measured at all urban monitoring sites using tipping-bucket rain gages.

The gage transmitted an electrical pulse to the datalogger each time 0.01 in. of rainfall was measured. Rainfall intensity was measured by calculating the number of pulses received by the datalogger each minute. Accumulated rainfall was calculated by summing the number of pulses for each storm period. The rain gages generally were cleaned and calibrated two or three times a year.

Stream-Discharge Measurements

Stream discharge is computed from rating curves that define the relation between gage height (the water-surface elevation of the stream) and an associated discharge. Gage height was measured at the six urban drainage basins using a Conoflow and pressure-regulator system. The Conoflow and pressure regulator maintain a constant rate of nitrogen flowing through a tube that extends from the gaging station to an orifice at the bottom of the channel or culvert. The pressure required to maintain a constant-flow rate through the tube increase as stage increases. Pressure in the tube was measured by a pressure transducer, which was calibrated to within 0.02 ft and placed 3 to 5 ft underground to reduce effects of ambient temperature on measurements, except for the urban drainage basin, 27th Avenue at Salt River, at Phoenix (09512403). At the 27th Avenue site, the transducer was placed in the culvert and thermally insulated. Gage height was continuously measured by a float at Indian Bend Wash at Curry Road, at Tempe (09512162), and at Salt River at 24th Street, at Phoenix (09512190); and intermittently measured by a wire-weight gage at Salt River at Priest Drive, near Phoenix (09512165). Gage heights were not measured at the Salt River sites at Alma School Road and at 51st Avenue because a gage datum was not available to relate to the measurements.

Stage-discharge ratings for five of the six urban drainage basins originally were developed on the basis of channel geometry and slope using the slope-conveyance method (Kennedy, 1984). The ratings were refined later by making manual discharge measurements at each of the sites. Instantaneous discharges at urban drainage basins were computed by programming the datalogger with a log-normal regression equation that was fitted to the stage-discharge rating of each site (Kolb, 1983). The log-normal equations compared well with all stage-discharge ratings (correlation coefficients were 0.99 or greater). Stream-discharge volumes were computed by multiplying the mean of two consecutive instantaneous discharge measurements by 60 seconds to obtain the mean volume of stream discharge during that 1-minute interval. The mean volumes were summed to obtain the total volume of runoff.

A stage-discharge rating based on historic recorded gage height and instantaneous discharge measurements was used at the Indian Bend Wash and South Mountain sites. Discharge measurements were made using either a Price pygmy meter or Price AA meter and the 0.6-depth or 0.2- and 0.8-depth wading method or bridge method (Rantz and others, 1982). Discharge measurements were made when streamflow samples were collected from the Salt River at Priest Drive and at 24th Street. Discharge measurements compared well with developed stage-discharge ratings. Discharge was estimated from flows at upstream stations, plus or minus any estimated gain or loss, when streamflow samples were collected from Salt River at Alma School Road, near Mesa (09512060) and from Salt River at 51st Avenue bridge, at Phoenix (332427112100601).

Water-Sample Collection and Processing

Water samples were collected from all urban drainage basins by automatic-pumping samplers and by manually collecting grab samples. Field measurements were made when samples were collected manually. The automatic-pumping sampler is a portable, nonrefrigerated unit calibrated to pump a specified volume of stormwater. Intakes are anchored to the streambed in the centroid of flow. Twenty-four Teflon-lined, 1-liter, polyethylene bottles were used to hold discrete samples that were pumped when a specified volume of water had discharged from the drainage basin. Samples were chilled and transported to the field office for processing. The specific electrical conductance of discrete samples was measured for selected samples before the bottles were com-

posited. The samples were poured into a Teflon-lined, stainless-steel churn splitter to split the composite sample into bottles required for each chemical analysis. In additon to the whole-water samples, samples for the determination of dissolved constituents were collected and filtered using 0.45-micrometer effective pore-size cellulose filters. Preservatives then were added to sample bottles as required. All components of the sampling equipment that came into contact with sample water were constructed of either glass, Teflon, or stainless steel except for the silicon-rubber distribution hose in the automatic-pumping sampler. Equipment that was in contact with sample water was cleaned by washing with Liquinox followed by a rinse of tap water, a rinse of ultrapure methanol, and a final rinse of deionized water.

Manual grab samples were collected in an open bottle by hand, for fecal bacteria counts (determined using methods presented in Britton and Greeson, 1987) and volatile organic compounds. These samples were collected by depth integration at the deepest and swiftest part of flow to represent the largest volume of discharge in the cross section. Samples were kept chilled until laboratory analyses were done. Field measurements of dissolved-oxygen concentration, pH, specific electrical conductance, and temperature were measured at the point where grab samples were collected. A Corning Checkmate 90 meter and electrodes were used for all field measurements and were calibrated with standard solutions before each measurement.

Water samples were collected from Indian Bend Wash and the Salt River using the equal-width-increment method (Edwards and Glysson, 1988) and by collecting grab samples. Field measurements were made using the methods described for measurements made at the urban drainage basins. For the equal-width-increment method, depth-integrated samples were collected at equal distances perpendicular to the direction of flow. Samples then were composited in a Teflon-lined churn splitter in the field to obtain a single sample that is representative of the stream at a specific time. The composite was transported back to the office and processed as stated above.

All chemical analyses, except 5-day biochemical oxygen demand (BOD), were done by the USGS National Water-Quality Laboratory in Arvada, Colorado; or by the USGS Laboratory in Ocala, Florida. BOD was analyzed by a laboratory contracted by FCDMC. Alkalinity was measured using the inflection-point method. Alkalinity, fecal-bacteria counts, and acute toxicity were measured in the USGS office in Tempe, Arizona.

Acute Toxicity Measurements

Acute toxicity was measured using the photoluminescent marine bacterium *Photobacterium phosphoreum* to identify adverse effects of stormwater on aquatic organisms (Microbics Corporation, 1992). These bacteria emit light as a byproduct of metabolic processes that are sensitive to sample toxicity. Four different concentrations of a sample with unknown toxicity were prepared, and roughly one million bacteria were exposed to each concentration. The effective concentration, expressed as a percentage of sample that reduces the bacteria's light output by 20 percent (EC20), was determined using a spectrophotometer after a sample exposure of 5 and 15 minutes. These measurements were compared to the light output of a reagent blank not exposed to the sample. The difference in light output between the blank and the sample is attributed to the effect of the sample on the organisms. Acute toxicity was measured for whole- and filtered-water samples. Certain constituents have a nearly immediate toxic effect, and other constituents are toxic over longer periods of time. Some chemicals or compounds in concentrations just below toxic levels can stimulate the organisms to emit more light.

SELECTED REFERENCES

Britton, L.J., and Greeson, P.E., 1987, Methods for collection and analysis of aquatic biological and microbiological samples: U.S. Geological Survey Techniques of Water-Resources Investigations, book 5, chap. A4, 363 p.

Edwards, T.K., and Glysson, G.D., 1988, Field methods for measurement of fluvial sediment: U.S. Geological Survey Open-File Report 86–531, 118 p.

Hem, J.D., 1985, Study and interpretation of the chemical characteristics of natural water, 3d edition:

U.S. Geological Survey Water-Supply Paper 2254, 263 p.

Ingersoll, T.L., Parker, J.T.C., and Fossum, K.D., 1995, Chemistry and toxicity of urban sediments, Maricopa County, Arizona—Data and summary statistics: U.S. Geological Survey Open-File Report 95–752, 27 p.

Kennedy, E.J., 1984, Discharge ratings at gaging stations: U.S. Geological Survey Techniques of Water-Resources Investigations, book 3, chap. A10, 59 p.

Kolb, W.M., 1983, Curve fitting for programmable calculators: Bowie, Maryland, IMTEC, p. 94

Lopes, T.J., and Fossum, K.D., 1995, Selected chemical characteristics and acute toxicity of urban stormwater, streamflow, and bed material, Maricopa County, Arizona: U.S. Geological Survey Water-Resources Investigations Report 95—4074, 52 p.

Lopes, T.J., Fossum, K.D., Phillips, J.V., and Monical, J.E., 1995, Statistical summary of selected physical, chemical, and microbial characteristics, and estimates of constituent loads in urban stormwater, Maricopa County, Arizona: U.S. Geological Survey Water-Resources Investigations Report 94—4240, 62 p.

Microbics Corporation, 1992, Microtox manual, a toxicity testing handbook, Volumes I—IV: Carlsbad, California, Microbics Corporation, 476 p.

Rantz, S.E., and others, 1982, Measurement and computation of streamflow—Volume 1, Measurement of stage and discharge: U.S. Geological Survey Water-Supply Paper 2175, 284 p.

Rector, Samuel, 1993, Arizona priority pollutant sampling program–1993 report: Phoenix, Arizona Department of Environmental Quality report, 34 p.

PHYSICAL, CHEMICAL, BIOLOGICAL, AND TOXICITY DATA

[Most of the column headings in the data tables include a five-digit parameter code, which is used by the USGS computer system, WATSTORE, to uniquely identify a specific constituent]

- page 9 follows -

09512162 INDIAN BEND WASH AT CURRY ROAD, AT TEMPE

LOCATION:—Lat 33°26'25", long 111°54'52", in SE 1/4 NW 1/4 SE 1/4 sec 11, T. 1 N., R. 4 E., Maricopa County, Hydrologic Unit 15060106, on upstream side of Curry Road bridge, 2 mi northeast of downtown Tempe, Arizona.

DRAINAGE AREA:—82 mi^2.

PERIOD OF RECORD:—February 1994 to current year.

INSTRUMENTATION:—Water-stage recorder. Datum of gage is 1,162.45 ft above sea level, from levels.

REMARKS:—Natural flow of wash affected by urbanization and partly regulated by artificial lakes upstream.

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES

[US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; <, actual value is known to be less than value shown; WH, whole; IT, incremental titration; DIS, dissolved; TOT, total; dashes indicate no data]

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. (CUBIC FEET PER SECOND) (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)
02-08-94	1445	1.17	129	93	7.6	17.5	--	--	90
10-15-94	1215	0.87	22	834	7.7	19.0	730	8.9	15
12-06-94	0600	1.10	98	791	7.4	16.0	729	6.8	330
12-06-94	1710	0.96	48	656	8.0	17.0	724	8.9	15
01-05-95	0830	1.72	449	342	7.7	14.0	722	11.2	--
01-06-95	0600	1.16	124	219	7.8	12.5	730	10.1	15
08-20-95	2300	1.39	124	448	7.8	26.5	733	8.1	36
09-28-95	1105	2.36	979	314	8.4	27.0	732	8.3	44

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)
02-08-94	8.5	3.5	12	2.2	--	--	--	--	--
10-15-94	44	16	110	6.0	150	147	0	0	123
12-06-94	28	3.4	19	5.2	181	177	0	0	148
12-06-94	34	25	76	3.5	170	165	0	0	139
01-05-95	19	9.7	35	2.6	127	103	0	0	116
01-06-95	15	5.3	21	2.4	89	88	0	0	73
08-20-95	27	23	47	3.5	95	85	0	0	78
09-28-95	13	7.2	47	3.9	164	145	0	0	135

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)
02-08-94	--	7.8	14	4.4	94	394	3.46	0.140	3.60
10-15-94	120	70	150	--	483	67	0.340	0.010	0.350
12-06-94	145	14	26	--	192	920	1.76	0.040	1.80
12-06-94	136	58	110	--	419	9	1.27	0.030	1.30
01-05-95	84	21	43	--	199	46	0.640	0.030	0.670
01-06-95	72	11	16	--	125	30	0.380	0.030	0.410
08-20-95	70	36	100	--	320	92	1.04	0.060	1.10
09-28-95	119	14	23	--	211	166	0.330	0.050	0.380

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)
02-08-94	0.920	2.0	0.320	0.170	0.280	23	<0.010	--	--
10-15-94	0.050	0.40	0.180	0.060	0.100	4.7	<0.010	<1	<1
12-06-94	0.170	0.60	0.110	0.080	0.060	39	<0.010	16	<1
12-06-94	<0.040	0.53	0.050	<0.020	0.020	5.9	<0.010	8	<1
01-05-95	0.020	1.0	0.170	0.040	0.030	12	<0.010	<1	<1
01-06-95	0.080	0.86	0.160	0.040	0.080	9.1	<0.010	2	<1
08-20-95	0.270	1.2	0.330	0.110	0.140	14	--	2	<1
09-28-95	0.230	1.9	0.520	0.150	0.230	16	<0.010	<1	<1

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)	BERYLLIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)
02-08-94	7	16	<10	<0.5	<1	<1.0	13	<5	<3
10-15-94	2	--	<10	--	<1	--	2	--	--
12-06-94	18	--	<10	--	3	--	37	--	--
12-06-94	5	--	<10	--	<1	--	2	--	--
01-05-95	5	--	<10	--	<1	--	3	--	--
01-06-95	8	--	<10	--	<1	--	2	--	--
08-20-95	4	--	<10	--	<1	--	4	--	--
09-28-95	34	--	<10	--	<1	--	7	--	--

09512162 INDIAN BEND WASH AT CURRY ROAD, AT TEMPE - Continued

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)
02-08-94	19	<10	170	27	<10	10	10	<0.10	<10
10-15-94	12	--	--	5	--	--	--	<0.10	--
12-06-94	130	--	--	240	--	--	--	<0.10	--
12-06-94	5	--	--	2	--	--	--	<0.10	--
01-05-95	7	--	--	6	--	--	--	<0.10	--
01-06-95	5	--	--	3	--	--	--	<0.10	--
08-20-95	8	--	--	9	--	--	--	<0.10	--
09-28-95	25	--	--	13	--	--	--	<0.10	--

DATE	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
02-08-94	12	<10	<1	<1	<1.0	110	<6	120	6
10-15-94	4	--	<1	<1	--	--	--	20	--
12-06-94	57	--	<1	<1	--	--	--	600	--
12-06-94	1	--	<1	<1	--	--	--	10	--
01-05-95	2	--	<1	<1	--	--	--	20	--
01-06-95	2	--	<1	<1	--	--	--	20	--
08-20-95	4	--	<1	<1	--	--	--	40	--
09-28-95	7	--	<1	<1	--	--	--	40	--

TOXICITY ANALYSES

[EC20, effective concentration for 20-percent reduction in biological activity; N/T, nontoxic; STIM, stimulatory effect; dashes indicate no data]

DATE	TIME	EC20, WHOLE WATER AT 5 MINUTES (percent)	EC20, WHOLE WATER, AT 15 MINUTES (percent)	EC20, FILTERED WATER, AT 5 MINUTES (percent)	EC20, FILTERED WATER, AT 15 MINUTES (percent)
02-08-94	1445	71.6	37.8	N/T	N/T
10-15-94	1215	110	---	---	---
12-06-94	0600	STIM	STIM	STIM	STIM
12-06-94	1710	STIM	STIM	STIM	STIM
01-05-95	0830	STIM	STIM	STIM	STIM
01-06-95	0600	STIM	STIM	STIM	STIM
08-20-95	2300	STIM	STIM	---	---
09-28-95	1105	55.2	63.0	262	102

09512184 BOX CULVERT AT 48TH STREET DRAIN, AT TEMPE

LOCATION:—Lat 33°25'01", long 111°58'38", in NW 1/4 SW 1/4 sec 20, T. 1 N., R. 4 E., Maricopa County, Hydrologic Unit 15060106, 2,000 ft south of University Dr., 2 mi west of downtown Tempe, Arizona.

DRAINAGE AREA:—49.1 acres, of which 80 percent is impervious area.

PERIOD OF RECORD:—November 1991 to current year. Published as "Box culvert at 48th Street drain," 1991-94.

INSTRUMENTATION:—Water-stage recorder, datalogger, and automatic sampler. Datum of gage is 1,130 ft above sea level, from topographic map.

REMARKS:—Light industrial land-use site.

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES

[MGD, million gallons per day; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; <, actual value is known to be less than value shown; >, actual value is known to be greater than value shown; K, nonideal colony count; UM, micrometer; MF, membrane filter; REC, recoverable; UNF, unfiltered; WH, whole; WAT, water; dashes indicate no data]

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	STORM WATER FLOW (MGD) (81395)	PRECIP-ITATION (TOTAL (INCHES/ STORM) (82381)	MAXIMUM 5 MINUTE PRECIP-ITATION INTEN-SITY (INCHES) (00129)	ELAPSED TIME OF STORM (HOURS) (00135)	DRY DAYS BEFORE PRECIP-ITATION EVENT (DAYS) (00132)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
11-10-91	1957	0.31	7.7	0.22	0.48	0.05	2.3	13.0	80	7.5
12-10-91	2036	0.39	16	0.17	0.46	0.19	10.0	29.0	--	--
12-18-91	0546	0.15	0.97	0.13	0.56	0.02	8.8	7.0	109	7.6
03-08-92	0716	0.20	2.1	0.15	0.35	0.04	5.6	1.0	194	8.0
03-27-92	0602	0.22	2.7	0.32	0.51	0.03	5.8	18.0	97	7.0
05-20-92	1348	0.27	5.0	0.29	0.28	0.09	2.7	1.0	128	6.5
08-05-92	0841	0.49	32	0.30	0.44	0.16	2.7	6.0	93	8.0
03-25-94	1958	0.15	1.0	0.07	0.34	0.04	2.5	6.0	91	6.7
05-24-94	1602	0.40	16	0.28	0.42	0.33	0.18	29.0	131	6.9
09-25-94	1203	0.31	7.4	0.06	0.13	0.06	0.78	3.0	174	7.5
10-15-94	1102	0.36	11	0.14	0.33	0.09	1.5	20.0	356	7.3
11-12-94	0440	0.24	3.5	0.08	0.45	0.04	3.3	27.0	99	5.9
01-04-95	1819	0.18	1.7	0.13	0.51	0.02	17.9	7.0	97	8.1
08-14-95	2110	0.33	5.7	0.06	0.37	0.11	1.2	32.0	409	6.7
08-19-95	1912	0.44	23	0.11	0.54	0.18	0.50	4.0	131	6.9

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, 0.45 UM-MF (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
11-10-91	18.0	729	8.2	69	<5.0	5700	8800	9.1	1.2	4.7
12-10-91	--	--	--	--	--	--	--	--	--	--
12-18-91	15.0	731	8.3	300	200	4500	K12000	8.6	1.0	4.0
03-08-92	16.5	727	8.9	53	<5.0	5000	4400	13	1.5	8.2
03-27-92	17.5	725	7.9	87	60	2500	5500	8.1	0.90	3.5
05-20-92	--	724	6.9	120	18	1400	27000	13	1.8	12
08-05-92	26.0	731	7.2	93	100	>6000	K11000	8.7	1.0	3.9
03-25-94	17.0	--	--	140	--	--	--	6.9	1.2	4.5
05-24-94	26.5	--	--	230	--	--	--	11	2.2	6.3
09-25-94	31.5	730	5.7	250	--	--	--	14	2.7	16
10-15-94	19.0	731	9.1	210	--	--	--	14	3.2	20
11-12-94	16.0	730	7.8	100	--	--	--	7.9	2.0	7.7
01-04-95	13.0	724	8.3	76	--	--	--	8.1	1.1	4.1
08-14-95	28.5	730	6.6	360	--	--	--	23	5.2	43
08-19-95	28.5	731	7.3	210	--	--	--	12	2.7	18

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
11-10-91	2.0	20	20	0	0	17	16	8.3	6.6	1.7
12-10-91	--	--	--	--	--	--	--	--	--	--
12-18-91	1.5	25	--	0	--	21	--	6.3	4.5	2.2
03-08-92	2.1	41	32	0	0	34	27	13	10	2.1
03-27-92	1.6	29	23	0	0	24	19	4.0	5.2	1.4
05-20-92	3.4	29	24	0	0	24	19	10	17	2.1
08-05-92	1.6	48	25	0	0	39	21	4.4	5.3	1.6
03-25-94	1.4	24	20	0	0	20	16	5.6	4.0	--
05-24-94	3.2	61	23	0	0	50	19	12	8.0	--
09-25-94	3.6	48	29	0	0	39	24	16	18	--
10-15-94	4.1	49	31	0	0	40	26	16	24	--
11-12-94	2.3	30	23	0	0	24	19	8.5	9.2	--
01-04-95	1.4	31	28	0	0	25	23	4.7	4.2	--
08-14-95	6.1	46	31	0	0	38	25	36	60	--
08-19-95	3.5	40	22	0	0	33	18	14	22	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
11-10-91	57	57	0.720	0.050	0.770	0.770	1.9	0.330	0.210
12-10-91	--	680	--	--	--	--	--	--	--
12-18-91	92	10	0.610	0.080	0.690	0.380	1.0	0.190	0.110
03-08-92	89	142	1.54	0.060	1.60	0.220	0.60	0.150	0.070
03-27-92	44	108	0.380	0.080	0.460	0.610	1.1	0.140	0.110
05-20-92	116	167	0.870	0.080	0.950	1.10	2.4	0.260	0.210
08-05-92	63	564	0.770	0.040	0.810	0.380	1.4	0.260	0.130
03-25-94	55	174	0.600	0.060	0.660	0.890	2.8	0.550	0.280
05-24-94	98	528	1.34	0.060	1.40	1.30	6.1	1.50	0.320
09-25-94	137	432	1.64	0.060	1.70	1.40	8.7	0.730	0.390
10-15-94	153	276	1.32	0.080	1.40	1.70	4.1	1.20	0.840
11-12-94	76	74	1.17	0.030	1.20	1.30	3.1	0.330	0.310
01-04-95	52	82	0.550	0.080	0.630	0.370	1.5	0.250	0.110
08-14-95	335	296	2.24	0.060	2.30	2.40	15	2.50	1.50
08-19-95	140	308	1.86	0.040	1.90	1.60	7.0	1.20	0.600

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)	ANTI-MONY TOTAL (UG/L AS SB) (99897)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)
11-10-91	--	18	<0.010	4	3	<10.0	3	23	<10
12-10-91	--	--	--	--	--	<10.0	8	--	<10
12-18-91	--	63	<0.010	14	3	<10.0	3	35	<10
03-08-92	--	12	<0.010	4	<1	<10.0	4	25	<10
03-27-92	--	20	<0.010	7	<1	<20.0	2	19	<10
05-20-92	--	54	<0.010	10	2	<10.0	4	35	<10
08-05-92	--	20	<0.010	16	6	<10.0	6	13	<10
03-25-94	0.280	32	<0.010	9	2	--	2	--	<10
05-24-94	0.300	71	<0.010	6	3	--	8	--	<10
09-25-94	0.410	49	<0.010	6	3	--	8	--	<10
10-15-94	0.670	54	<0.010	7	5	--	3	--	<10
11-12-94	0.170	29	<0.010	4	4	--	2	--	<10
01-04-95	0.100	18	<0.010	9	9	--	2	--	<10
08-14-95	0.990	100	0.020	24	3	--	5	--	<10
08-19-95	0.380	55	--	9	4	--	5	--	<10

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
11-10-91	1	<1	<1.0	5	<5	<3	30	10	38
12-10-91	--	2	--	44	--	--	--	--	--
12-18-91	<0.5	<1	<1.0	3	<5	<3	--	<10	39
03-08-92	<0.5	<1	<1.0	7	<5	<3	10	<10	15
03-27-92	<0.5	<1	<1.0	4	<5	<3	72	10	23
05-20-92	0.7	1	<1.0	8	<5	<3	50	20	80
08-05-92	<0.5	1	<1.0	15	<5	<3	55	<10	67
03-25-94	--	2	--	9	--	--	90	--	--
05-24-94	--	3	--	27	--	--	100	--	--
09-25-94	--	6	--	24	--	--	99	--	--
10-15-94	--	1	--	10	--	--	55	--	--
11-12-94	--	<1	--	5	--	--	23	--	--
01-04-95	--	<1	--	4	--	--	20	--	--
08-14-95	--	3	--	15	--	--	140	--	--
08-19-95	--	2	--	43	--	--	120	--	--

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
11-10-91	18	<10	5	45	0.10	<10	13	<10	<1
12-10-91	130	--	--	--	0.20	--	63	--	<2
12-18-91	15	<10	<4	24	<0.10	<10	5	<10	<2
03-08-92	12	<10	7	17	<0.10	<10	9	<10	<2
03-27-92	11	<10	<4	26	<0.10	<10	6	<10	<2
05-20-92	33	<10	9	70	0.10	<10	20	<10	<2
08-05-92	50	<10	4	17	0.10	<10	33	<10	1
03-25-94	33	--	--	--	0.10	--	10	--	<1
05-24-94	100	--	--	--	<0.10	--	54	--	<1
09-25-94	100	--	--	--	0.10	--	54	--	<1
10-15-94	30	--	--	--	<0.10	--	18	--	<1
11-12-94	14	--	--	--	<0.10	--	7	--	<1
01-04-95	15	--	--	--	<0.10	--	6	--	<1
08-14-95	52	--	--	--	<0.10	--	27	--	<1
08-19-95	90	--	--	--	<0.10	--	27	--	<1

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, TOTAL (UG/L AS AG) (99895)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (99896)
11-10-91	<1	<1.00	<1.0	55	<10	<6	120	37	<0.010
12-10-91	<1	<5.00	--	--	<10	--	560	--	--
12-18-91	<1	<2.00	<1.0	120	<10	<6	110	22	<0.010
03-08-92	<1	<1.00	<1.0	88	<10	<6	80	9	<0.010
03-27-92	<1	<1.00	<1.0	44	<5	<6	100	19	<0.010
05-20-92	<1	<1.00	<1.0	85	<10	6	270	59	<0.010
08-05-92	<1	<0.500	<1.0	50	<5	<6	290	7	<10.0
03-25-94	<1	--	--	--	--	--	140	--	--
05-24-94	<1	--	--	--	--	--	960	--	--
09-25-94	<1	--	--	--	--	--	690	--	--
10-15-94	<1	--	--	--	--	--	340	--	--
11-12-94	<1	--	--	--	--	--	180	--	--
01-04-95	<1	--	--	--	--	--	180	--	--
08-14-95	<1	--	--	--	--	--	850	--	--
08-19-95	<1	--	--	--	--	--	560	--	--

ORGANICS ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; REC, recoverable; UNF, unfiltered; WH, whole; WAT, water]

DATE	TIME	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)
11-10-91	1957	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
12-18-91	0546	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
03-08-92	0716	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
03-27-92	0602	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
05-20-92	1348	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
08-05-92	0841	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2

DATE	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-TRANSDI-CHLORO-ETHENE TOTAL (UG/L) (34546)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)
11-10-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
12-18-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-08-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-27-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
05-20-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
08-05-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)
11-10-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
12-18-91	<0.2	0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
03-08-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
03-27-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
05-20-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
08-05-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2

ORGANICS ANALYSES - Continued

DATE	METHYL-CHLORIDE TOTAL (UG/L) (34418)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	STYRENE TOTAL (UG/L) (77128)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,1-DI CHLORO-PROPENE, WAT, WH TOTAL (UG/L) (77168)	2,2-DI CHLORO-PROPANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)
11-10-91	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
12-18-91	<0.2	<0.20	<0.2	<0.2	0.5	0.20	<1.0	<0.2	<0.2	<0.2
03-08-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
03-27-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
05-20-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
08-05-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2

DATE	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	METHYL ETHER TERT-BUTYL WAT UNF REC (UG/L) (78032)	METHANE BROMO-CHLORO-WAT UNFLTRD REC (UG/L) (77297)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)
11-10-91	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
12-18-91	<0.2	<0.20	<0.2	<0.2	<20	<20	1.2	<0.20	<0.2	<1.0
03-08-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
03-27-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
05-20-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
08-05-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	PSEUDO-CUMENE WATER UNFLTRD REC (UG/L) (77222)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	NAPHTH-ALENE TOTAL (UG/L) (34696)
11-10-91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
12-18-91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	0.2
03-08-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
03-27-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
05-20-92	<0.20	<0.20	<0.20	<0.20	<0.20	0.70	<0.20	<0.20	<0.2	<0.2
08-05-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2

09512184 BOX CULVERT AT 48TH STREET DRAIN, AT TEMPE - Continued

ORGANICS ANALYSES - Continued

DATE	1,2,3-TRICHLOROBENZENE WAT, WH REC (UG/L) (77613)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	MESITYLENE WATER UNFLTRD REC (UG/L) (77226)	BROMOBENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	PARACHLOROMETA CRESOL TOTAL (UG/L) (34452)	2-CHLOROPHENOL TOTAL (UG/L) (34586)	2,4-DICHLOROPHENOL TOTAL (UG/L) (34601)	2,4,6-TRICHLOROPHENOL TOTAL (UG/L) (34621)	2,4-DIMETHYLPHENOL TOTAL (UG/L) (34606)	4,6-DINITRO-ORTHOCRESOL TOTAL (UG/L) (34657)
11-10-91	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
12-18-91	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
03-08-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
03-27-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
05-20-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
08-05-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0

DATE	2,4,-DINITROPHENOL TOTAL (UG/L) (34616)	2-NITROPHENOL TOTAL (UG/L) (34591)	4-NITROPHENOL TOTAL (UG/L) (34646)	PENTACHLOROPHENOL TOTAL (UG/L) (39032)	PHENOL (C6H5OH) TOTAL (UG/L) (34694)	ACENAPHTHENE TOTAL (UG/L) (34205)	ACENAPHTHYLENE TOTAL (UG/L) (34200)	ANTHRACENE TOTAL (UG/L) (34220)	BENZIDINE TOTAL (UG/L) (39120)
11-10-91	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
12-18-91	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
03-08-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
03-27-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
05-20-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
08-05-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0

DATE	BENZO A ANTHRACENE 1,2-BENZANTHRACENE TOTAL (UG/L) (34526)	BENZO B FLUORANTHENE TOTAL (UG/L) (34230)	BENZO K FLUORANTHENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZOGHI PERYLENE 1,12-BENZOPERYLENE TOTAL (UG/L) (34521)	N-BUTYL BENZYL PHTHALATE TOTAL (UG/L) (34292)	BIS (2-CHLOROETHOXY) METHANE TOTAL (UG/L) (34278)	BIS 2-CHLOROETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLOROISOPROPYL) ETHER TOTAL (UG/L) (34283)
11-10-91	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
12-18-91	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
03-08-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
03-27-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
05-20-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
08-05-92	<10.0	<10.0	<10.0	<10.0	16.0	<5.0	<5.0	<5.0	<5.0

ORGANICS ANALYSES - Continued

DATE	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/L) (34641)	CHRY-SENE TOTAL (UG/L) (34320)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	DI-N-BUTYL-PHTHAL-ATE TOTAL (UG/L) (39110)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	DIETHYL-PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL-PHTHAL-ATE TOTAL (UG/L) (34341)
11-10-91	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
12-18-91	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
03-08-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
03-27-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
05-20-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
08-05-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0

DATE	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	FLUOR-ENE TOTAL (UG/L) (34381)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)
11-10-91	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
12-18-91	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-08-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-27-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
05-20-92	<5.0	<5.0	<10.0	9.0	<5.0	7.0	<5.0	<5.0	<5.0
08-05-92	<5.0	<5.0	<10.0	5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	NITRO-BENZENE TOTAL (UG/L) (34447)	N-NITRO-SODI-METHYL-AMINE TOTAL (UG/L) (34438)	N-NITRO-SODI-PHENYL-AMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
11-10-91	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
12-18-91	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-08-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-27-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
05-20-92	27.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
08-05-92	17.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	11.0	<5.0

PESTICIDES ANALYSES

[UG/L, micrograms per liter; <,actual value is known to be less than value shown; PCB, polychlorinated biphenyl; DDE, dichlorodiphenylethylene; DDD, dichlorodiphenyldichloroethane; DDT, dichlorodiphenyltrichloroethane]

DATE	TIME	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	ALDRIN, TOTAL (UG/L) (39330)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)
11-10-91	1957	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
12-18-91	0546	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
03-08-92	0716	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
03-27-92	0602	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
05-20-92	1348	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
08-05-92	0841	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10

DATE	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	DI-ELDRIN TOTAL (UG/L) (39380)	P,P' DDE, TOTAL (UG/L) (39320)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ENDO-SULFAN BETA TOTAL (UG/L) (34356)	P,P' DDD, TOTAL (UG/L) (39310)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	P,P' DDT, TOTAL (UG/L) (39300)
11-10-91	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
12-18-91	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
03-08-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
03-27-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
05-20-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
08-05-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10

DATE	CHLOR-DANE, TOTAL (UG/L) (39350)	TOX-APHENE, TOTAL (UG/L) (39400)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)
11-10-91	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
12-18-91	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
03-08-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
03-27-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
05-20-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
08-05-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS

[US/CM, microsiemens per centimeter]

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
MAR 1992		
08...	0710	80
08...	0713	76
08...	0717	72
08...	0719	73
08...	0722	74
08...	0806	205
08...	0813	194
08...	0821	199
08...	0829	203
08...	0838	205
MAR 1992		
27...	0303	101
27...	0537	78
27...	0540	73
27...	0543	69
27...	0546	67
27...	0549	68
27...	0552	76
27...	0555	76
27...	0558	76
27...	0601	75
27...	0604	75
27...	0607	76
27...	0610	78
27...	0613	76
27...	0616	76
27...	0715	80
27...	0717	82
27...	0720	84
MAY 1992		
20...	1343	148
20...	1349	127
20...	1353	124
20...	1359	127
20...	1405	148
20...	1411	167
20...	1417	163
20...	1423	147
20...	1429	126
20...	1435	130
AUG 1992		
05...	0831	101
05...	0833	104
05...	0835	88
05...	0837	70
05...	0839	66
05...	0840	63
05...	0842	64
05...	0844	65
05...	0846	65
05...	0847	66
05...	0849	66
05...	0850	68
05...	0852	70
05...	0854	71
05...	0855	76
05...	0857	83
05...	0858	90
05...	0900	98
05...	0901	98
05...	0903	97
05...	0905	96
05...	0906	97
05...	0908	97

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
AUG 1992		
05...	0909	97
05...	0911	96
05...	0914	96
05...	0917	98
05...	0920	101
05...	0924	98
05...	0928	95
05...	0934	96
05...	0952	95
MAY 1994		
24...	1552	107
24...	1555	168
24...	1557	190
24...	1559	199
24...	1601	174
24...	1603	144
24...	1604	134
24...	1606	130
24...	1608	126
24...	1610	122
24...	1614	115
24...	1618	114
24...	1621	116
24...	1624	118
24...	1629	121
24...	1639	125
SEP 1994		
25...	1147	276
25...	1149	237
25...	1151	201
25...	1153	212
25...	1155	276
25...	1157	238
25...	1158	227
25...	1159	197
25...	1200	188
25...	1201	178
25...	1202	174
25...	1204	160
25...	1204	160
25...	1205	165
25...	1206	154
25...	1208	154
25...	1210	154
25...	1213	154
25...	1216	154
25...	1220	150
OCT 1994		
15...	1033	373
15...	1035	367
15...	1037	353
15...	1039	336
15...	1041	321
15...	1043	298
15...	1045	273
15...	1046	251
15...	1047	237
15...	1048	219
15...	1049	207
15...	1050	210
15...	1051	199
15...	1052	196
15...	1053	199
15...	1054	178

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS - Continued

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
OCT 1994			JAN 1995		
15...	1055	189	04...	1846	97
15...	1056	172	04...	2046	136
15...	1057	165	04...	2053	91
15...	1058	162	04...	2058	73
15...	1059	157	04...	2103	66
15...	1100	140	04...	2108	63
15...	1101	125	04...	2113	68
15...	1103	113	04...	2118	74
NOV 1994			04...	2124	78
12...	0428	207	04...	2130	82
12...	0431	187	AUG 1995		
12...	0433	179	14...	2055	1230
12...	0435	168	14...	2056	1080
12...	0437	156	14...	2057	920
12...	0441	147	14...	2058	794
12...	0443	146	14...	2100	706
12...	0446	134	14...	2103	600
12...	0450	119	14...	2105	471
12...	0455	110	14...	2107	404
12...	0531	91	14...	2108	399
12...	0535	88	14...	2109	384
12...	0539	89	14...	2111	371
12...	0543	94	14...	2113	338
12...	0547	88	14...	2115	291
12...	0551	86	14...	2117	281
12...	0555	87	14...	2119	256
12...	0600	88	14...	2121	236
12...	0605	89	14...	2123	228
12...	0611	94	14...	2126	250
12...	0616	99	14...	2129	287
12...	0621	94	14...	2132	316
12...	0625	103	14...	2136	340
12...	0629	99	14...	2143	371
JAN 1995			AUG 1995		
04...	1759	92	19...	1902	284
04...	1801	81	19...	1903	262
04...	1803	87	19...	1904	257
04...	1805	75	19...	1905	242
04...	1807	74	19...	1906	274
04...	1809	76	19...	1908	258
04...	1811	77	19...	1910	231
04...	1813	79	19...	1911	205
04...	1818	82	19...	1913	194
04...	1822	82	19...	1914	178
04...	1826	85	19...	1915	241
04...	1830	86	19...	1916	151
04...	1835	90	19...	1917	158
04...	1840	94	19...	1918	128

TOXICITY ANALYSES

[EC20, effective concentration for 20-percent reduction in biological activity; N/T, nontoxic; STIM, stimulatory effect; dashes indicate no data]

DATE	TIME	EC20, WHOLE WATER AT 5 MINUTES (percent)	EC20, WHOLE WATER, AT 15 MINUTES (percent)	EC20, FILTERED WATER, AT 5 MINUTES (percent)	EC20, FILTERED WATER, AT 15 MINUTES (percent)
03-25-94	1958	44.7	N/T	64.7	N/T
05-24-94	1602	--	--	39.3	N/T
09-25-94	1203	21.1	34.8	21.8	24.0
10-15-94	1102	27.2	28.4	35.2	33.7
11-12-94	0440	34.6	55.5	40.3	55.8
01-04-95	1819	103	STIM	STIM	STIM
08-14-95	2110	13.7	16.9	25.6	33.3
08-19-95	1912	14.0	15.5	37.7	31.7

09512200 SALT RIVER TRIBUTARY IN SOUTH MOUNTAIN PARK, AT PHOENIX

LOCATION:—Lat 33°20'49", long 112°05'03", in NE 1/4 NE 1/4 sec 18, T. 1 S., R. 3 E., Maricopa County, Hydrologic Unit 15060106, in South Mountain Park, on left bank, 6.5 mi south of Phoenix main post office.

DRAINAGE AREA:—1,120 acres, of which 1 percent is impervious area.

PERIOD OF RECORD:—January and February 1992, discontinued.

INSTRUMENTATION:—Water-stage recorder, datalogger, and automatic-sampler. Datum of gage is 1,405.20 ft above sea level, from levels.

REMARKS:—Undeveloped land-use site.

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES

[MGD, million gallons per day; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; <, actual value is known to be less than value shown; WH, whole; IT, incremental titration; DIS, dissolved; TOT, total; MF, membrane filter. Dashes indicate no data]

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	STORM WATER FLOW (MGD) (81395)	PRECIP-ITATION TOTAL (INCHES/ STORM) (82381)	MAXIMUM 5 MINUTE PRECIP-ITATION INTEN-SITY (INCHES) (00129)	ELAPSED TIME OF STORM (HOURS) (00135)	DRY DAYS BEFORE PRECIP-ITATION EVENT (DAYS) (00132)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)
01-12-92	0032	5.81	163	1.4	0.60	0.15	3.0	6.0	75
02-07-92	1524	5.06	128	0.77	0.41	0.10	19.8	3.0	--

DATE	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, 0.45 UM-MF (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
01-12-92	8.3	7.5	720	7.3	59	20	2500	9800	11
02-07-92	--	--	--	--	21000	--	--	--	--

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	CAR-BONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	ALKA-LINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
01-12-92	0.85	0.90	4.3	40	0	33	7.2	1.6	2.0
02-07-92	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITRO-GEN, NITRATE TOTAL (MG/L AS N) (00620)	NITRO-GEN, NITRITE TOTAL (MG/L AS N) (00615)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)
01-12-92	35	365	1.29	0.110	1.40	0.230	2.0	0.760	0.180
02-07-92	--	3390	0.560	0.030	0.590	0.070	1.6	0.530	--

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)	ANTI-MONY TOTAL (UG/L AS SB) (99897)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
01-12-92	17	<0.010	<1	<1	<20.0	4	11	<10	<0.5
02-07-92	210	--	--	--	--	7	--	<10	--

DATE	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
01-12-92	<1	<1.0	14	<5	<3	27	<10	11	10
02-07-92	2	--	120	--	--	210	--	--	150

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)
01-12-92	<10	<4	<1	<0.10	<10	12	<10	<2	<1
02-07-92	--	--	--	<0.10	--	100	--	<2	3

DATE	SILVER, TOTAL (UG/L AS AG) (99895)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (99896)
01-12-92	<10.0	<1.0	50	<5	<6	60	<3	<0.010
02-07-92	--	--	--	--	--	390	--	--

ORGANICS ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; REC, recoverable; UNF, unfiltered; WH, whole, WAT, water]

DATE	TIME	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)
01-12-92	0032	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2

DATE	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-TRANSDI-CHLORO-ETHENE TOTAL (UG/L) (34546)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)
01-12-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)
01-12-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2

DATE	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	STYRENE TOTAL (UG/L) (77128)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)	2,2-DI-CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)
01-12-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2

DATE	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	METHYL ETHER TERT-BUTYL WAT UNF REC (UG/L) (78032)	METHANE BROMO CHLORO-WAT UNFLTRD REC (UG/L) (77297)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)
01-12-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0

ORGANICS ANALYSES - Continued

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	PSEUDO-CUMENE WATER UNFLTRD REC (UG/L) (77222)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	NAPHTH-ALENE TOTAL (UG/L) (34696)
01-12-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2

DATE	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	MESITY-LENE WATER UNFLTRD REC (UG/L) (77226)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)
01-12-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0

DATE	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZI-DINE TOTAL (UG/L) (39120)
01-12-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0

DATE	BENZO A ANTHRA-CENE 1,2-BENZANT HRACENE TOTAL (UG/L) (34526)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZOGH I PERYL-ENE 1,12-BENZO-PERYLENE TOTAL (UG/L) (34521)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)
01-12-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0

DATE	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/L) (34641)	CHRY-SENE TOTAL (UG/L) (34320)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	DI-N-BUTYL-PHTHAL-ATE TOTAL (UG/L) (39110)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	DIETHYL-PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL-PHTHAL-ATE TOTAL (UG/L) (34341)
01-12-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0

ORGANICS ANALYSES - Continued

DATE	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	FLUOR-ENE TOTAL (UG/L) (34381)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)
01-12-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	NITRO-BENZENE TOTAL (UG/L) (34447)	N-NITRO-SODI-METHY-LAMINE TOTAL (UG/L) (34438)	N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
01-12-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

PESTICIDES ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown]

DATE	TIME	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	ALDRIN, TOTAL (UG/L) (39330)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)
01-12-92	0032	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10

DATE	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	DI-ELDRIN TOTAL (UG/L) (39380)	P,P' DDE, TOTAL (UG/L) (39320)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ENDO-SULFAN BETA TOTAL (UG/L) (34356)	P,P' DDD, TOTAL (UG/L) (39310)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	P,P' DDT, TOTAL (UG/L) (39300)
01-12-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10

DATE	CHLOR-DANE, TOTAL (UG/L) (39350)	TOX-APHENE, TOTAL (UG/L) (39400)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)
01-12-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

09512403 27TH AVENUE AT SALT RIVER, AT PHOENIX

LOCATION:—Lat 33°24'31", long 112°06'56", in SW 1/4 SW 1/4 sec 24, T. 1 N., R. 2 E., Maricopa County, Hydrologic Unit 15060106, on left bank of Salt River, 1,000 ft north of intersection of Broadway Avenue and 27th Avenue.

DRAINAGE AREA:—44.8 acres, of which 15 percent is impervious area.

PERIOD OF RECORD:—December 1991 to current year. Published as "27th Avenue at Salt River," 1991-94.

INSTRUMENTATION:—Water-stage recorder, datalogger, and automatic-sampler. Datum of gage is 1,040 ft above sea level, from topographic map.

REMARKS:—Heavy industrial land-use site.

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES

[MGD, million gallons per day; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; K, nonideal colony count; WH, whole; IT, incremental titration; DIS, dissolved; TOT, total; MF, membrane filter. Dashes indicate no data]

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	STORM WATER FLOW (MGD) (81395)	PRECIP-ITATION TOTAL (INCHES/ STORM) (82381)	MAXIMUM 5 MINUTE PRECIP-ITATION INTEN-SITY (INCHES) (00129)	ELAPSED TIME OF STORM (HOURS) (00135)	DRY DAYS BEFORE PRECIP-ITATION EVENT (DAYS) (00132)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
12-10-91	2113	0.42	3.0	0.08	0.60	0.08	11.0	11.0	163	8.4
12-18-91	0733	0.30	1.2	0.10	0.25	0.01	12.0	7.0	177	7.8
02-07-92	0445	0.18	0.28	0.01	0.18	0.02	5.5	17.0	--	--
03-02-92	1327	0.35	1.8	0.05	0.23	0.08	17.6	18.0	266	9.0
03-08-92	1439	0.31	0.63	0.05	0.41	0.02	13.0	1.0	159	8.7
07-11-92	0105	0.36	2.0	0.09	0.53	0.03	3.3	4.0	169	8.4
08-22-92	0926	0.38	2.3	0.04	0.37	0.13	2.1	14.0	150	8.8
12-08-92	0713	0.40	2.7	0.13	0.88	0.05	6.7	41.0	129	7.8
02-07-94	2305	0.19	0.33	0.02	0.46	0.02	6.9	83.0	193	7.4
03-25-94	1910	0.30	0.96	0.02	0.23	0.02	2.8	6.0	139	8.2
10-15-94	1103	0.31	1.3	0.02	0.33	0.08	2.2	22.0	197	8.5
12-05-94	1521	0.23	0.50	0.08	0.51	0.02	18.9	49.0	175	7.5
01-04-95	1821	0.21	0.50	0.03	0.50	0.02	14.1	6.0	209	8.5

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, 0.45 UM-MF (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
12-10-91	17.5	727	7.3	4300	3600	3100	K22000	13	1.5	8.9
12-18-91	16.0	730	9.0	520	270	K11000	K26000	16	1.9	9.3
02-07-92	--	--	--	--	--	--	--	--	--	--
03-02-92	17.0	730	8.5	340	8.5	5500	6500	23	3.0	15
03-08-92	17.0	731	7.6	590	31	5800	6600	16	2.1	11
07-11-92	28.0	732	7.1	180	33	4500	9800	18	2.2	11
08-22-92	27.5	732	5.9	180	21	5800	4200	16	1.7	8.2
12-08-92	12.5	730	10.2	110	12	4500	K15000	12	2.0	7.5
02-07-94	15.0	--	--	140	--	--	--	19	2.7	14
03-25-94	16.5	--	--	220	--	--	--	16	2.2	10
10-15-94	21.0	730	7.6	310	--	--	--	18	2.4	13
12-05-94	17.0	734	6.8	18	--	--	--	35	28	87
01-04-95	16.5	723	9.6	240	--	--	--	22	2.8	15

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
12-10-91	3.3	--	--	--	--	--	--	12	13	--
12-18-91	3.5	78	46	0	0	64	38	9.7	10	3.3
02-07-92	--	--	--	--	--	--	--	--	--	--
03-02-92	5.3	278	39	0	0	228	32	20	27	3.0
03-08-92	4.3	261	49	0	0	214	40	11	14	4.5
07-11-92	6.7	105	38	0	0	86	31	9.2	17	4.5
08-22-92	4.5	229	34	0	0	188	28	9.1	13	4.2
12-08-92	2.9	127	--	0	--	104	--	5.3	9.1	3.4
02-07-94	4.0	--	43	--	0	--	36	11	22	3.6
03-25-94	3.9	112	38	0	0	92	31	8.8	16	3.9
10-15-94	4.7	220	37	0	0	180	30	13	17	--
12-05-94	3.5	203	70	0	0	166	57	61	130	--
01-04-95	3.7	159	63	0	0	130	52	15	18	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
12-10-91	110	925	1.50	0.200	1.70	0.250	2.3	0.960	0.110
12-18-91	122	316	1.92	0.080	2.00	0.140	1.7	0.720	0.100
02-07-92	--	--	--	--	--	--	--	--	--
03-02-92	158	1120	4.63	0.070	4.70	0.410	2.6	0.850	0.140
03-08-92	112	1480	1.59	0.110	1.70	0.070	3.0	1.70	0.090
07-11-92	138	586	2.55	0.050	2.60	0.750	3.8	1.10	0.230
08-22-92	121	1430	2.06	0.040	2.10	0.390	2.2	0.650	0.180
12-08-92	70	1030	1.68	0.120	1.80	0.130	1.0	0.510	0.170
02-07-94	143	168	0.430	0.050	0.480	0.210	1.4	0.740	0.180
03-25-94	124	524	1.92	0.080	2.00	0.310	3.4	0.800	0.160
10-15-94	128	1230	1.81	0.090	1.90	0.690	3.9	1.10	0.210
12-05-94	464	8	3.92	0.280	4.20	0.440	5.0	1.80	0.140
01-04-95	143	916	3.33	0.170	3.50	0.030	4.7	1.70	0.070

09512403 27TH AVENUE AT SALT RIVER, AT PHOENIX - Continued

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)	ANTI-MONY TOTAL (UG/L AS SB) (99897)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)
12-10-91	--	1100	<0.010	5	<1	--	10	--	<10
12-18-91	--	120	<0.010	<1	<1	<10.0	8	21	<10
02-07-92	--	--	<0.010	8	<1	--	21	--	<10
03-02-92	--	65	<0.010	1900	2	<10.0	16	34	<10
03-08-92	--	130	<0.010	8	2	<20.0	16	14	<10
07-11-92	--	52	<0.010	6	6	<10.0	2	28	<10
08-22-92	--	74	<0.010	9	1	<20.0	14	24	<10
12-08-92	--	21	<0.010	8	2	<10.0	11	15	<10
02-07-94	0.330	17	<0.010	52	6	--	5	28	<10
03-25-94	0.240	44	<0.010	11	4	--	9	22	<10
10-15-94	0.540	80	<0.010	9	2	--	13	--	<10
12-05-94	0.260	4.7	<0.010	1	<1	--	5	--	<10
01-04-95	0.160	63	0.010	4	1	--	16	--	<10

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
12-10-91	--	2	--	47	--	--	--	--	--
12-18-91	<0.5	1	<1.0	20	<5	<3	--	10	20
02-07-92	--	6	--	89	--	--	320	--	--
03-02-92	<0.5	4	<1.0	25	<5	<3	200	20	32
03-08-92	0.6	4	<1.0	3	<5	<3	200	10	81
07-11-92	<0.5	2	<1.0	25	<5	<3	50	20	140
08-22-92	<0.5	3	<1.0	52	<5	<3	160	20	140
12-08-92	<0.5	<2	2.0	34	<5	<3	100	<10	170
02-07-94	0.6	<1	1.0	8	<5	<3	37	20	16
03-25-94	<0.5	2	<1.0	22	<5	<3	72	20	70
10-15-94	--	3	--	40	--	--	22	--	--
12-05-94	--	<1	--	3	--	--	2	--	--
01-04-95	--	3	--	28	--	--	130	--	--

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
12-10-91	230	--	--	--	<0.10	--	58	--	<2
12-18-91	120	<10	4	11	<0.10	<10	23	<10	<2
02-07-92	620	--	--	--	<0.10	--	120	--	<2
03-02-92	430	<10	8	21	<0.10	<10	53	<10	<2
03-08-92	380	10	10	17	<0.10	<10	95	<10	<2
07-11-92	210	<10	7	34	<0.10	<10	40	<10	<2
08-22-92	300	<10	7	15	0.20	<10	68	<10	<1
12-08-92	170	<10	5	13	<0.10	<10	68	<10	<2
02-07-94	51	<10	7	22	<0.10	<10	12	<10	<1
03-25-94	170	<10	8	18	0.10	<10	32	<10	<1
10-15-94	310	--	--	--	0.10	--	69	--	<1
12-05-94	2	--	--	--	<0.10	--	1	--	<1
01-04-95	350	--	--	--	0.10	--	64	--	<1

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, TOTAL (UG/L AS AG) (99895)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (99896)
12-10-91	<1	--	--	--	--	--	450	--	--
12-18-91	<1	<2.00	<1.0	170	<10	<6	230	5	<0.010
02-07-92	<1	--	--	--	--	--	980	--	--
03-02-92	<1	<1.00	<1.0	210	<500	6	690	<3	<0.010
03-08-92	<1	<1.00	<1.0	140	<10	6	720	7	<0.010
07-11-92	<1	<1.00	<1.0	140	<10	10	310	8	<10.0
08-22-92	<1	<0.500	<1.0	120	<10	9	680	4	<0.010
12-08-92	<1	<0.500	<1.0	82	<10	<6	340	<3	<0.010
02-07-94	<1	--	<1.0	150	--	<6	170	4	--
03-25-94	<1	--	<1.0	130	--	9	350	9	--
10-15-94	<1	--	--	--	--	--	710	--	--
12-05-94	<1	--	--	--	--	--	<10	--	--
01-04-95	<1	--	--	--	--	--	520	--	--

ORGANICS ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; REC, recoverable; UNF, unfiltered; WH, whole, WAT, water]

DATE	TIME	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)
12-10-91	2113	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
12-18-91	0733	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
02-07-92	0445	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
03-02-92	1327	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
03-08-92	1439	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
07-11-92	0105	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
08-22-92	0926	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
12-08-92	0713	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2

DATE	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-TRANSDI-CHLORO-ETHENE TOTAL (UG/L) (34546)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)
12-10-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
12-18-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
02-07-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-02-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-08-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.2	<0.2
07-11-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
08-22-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
12-08-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)
12-10-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
12-18-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
02-07-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
03-02-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
03-08-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
07-11-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
08-22-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
12-08-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2

ORGANICS ANALYSES - Continued

DATE	METHYL-CHLORIDE TOTAL (UG/L) (34418)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	STYRENE TOTAL (UG/L) (77128)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)	2,2-DI-CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)
12-10-91	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
12-18-91	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
02-07-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
03-02-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
03-08-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
07-11-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
08-22-92	<0.2	<0.20	<0.2	<0.2	<0.2	0.20	<1.0	<0.2	<0.2	<0.2
12-08-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2

DATE	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	123-TRI-CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	METHYL-ETHER TERT-BUTYL WAT UNF REC (UG/L) (78032)	METHANE BROMO-CHLORO-WAT UNFLTRD REC (UG/L) (77297)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)
12-10-91	<0.2	<0.20	<0.2	<0.2	<20	<20	1.0	<0.20	<0.2	<1.0
12-18-91	<0.2	<0.20	<0.2	<0.2	<20	<20	1.0	<0.20	<0.2	<1.0
02-07-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
03-02-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
03-08-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
07-11-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
08-22-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
12-08-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	PSEUDO-CUMENE WATER UNFLTRD REC (UG/L) (77222)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	NAPHTH-ALENE TOTAL (UG/L) (34696)
12-10-91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
12-18-91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
02-07-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
03-02-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
03-08-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
07-11-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
08-22-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
12-08-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2

ORGANICS ANALYSES - Continued

DATE	1,2,3-TRICHLOROBENZENE WAT, WH REC (UG/L) (77613)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	MESITYLENE WATER UNFLTRD REC (UG/L) (77226)	BROMOBENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	2-CHLOROPHENOL TOTAL (UG/L) (34586)	2,4-DICHLOROPHENOL TOTAL (UG/L) (34601)	2,4,6-TRICHLOROPHENOL TOTAL (UG/L) (34621)	2,4-DIMETHYLPHENOL TOTAL (UG/L) (34606)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)
12-10-91	<0.20	<0.5	<0.20	<3.0	--	--	--	--	--	--
12-18-91	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
02-07-92	<0.20	<0.5	<0.20	<0.2	--	--	--	--	--	--
03-02-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
03-08-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
07-11-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
08-22-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
12-08-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0

DATE	2,4,-DINITROPHENOL TOTAL (UG/L) (34616)	2-NITROPHENOL TOTAL (UG/L) (34591)	4-NITROPHENOL TOTAL (UG/L) (34646)	PENTACHLOROPHENOL TOTAL (UG/L) (39032)	PHENOL (C6H5OH) TOTAL (UG/L) (34694)	ACENAPHTHENE TOTAL (UG/L) (34205)	ACENAPHTHYLENE TOTAL (UG/L) (34200)	ANTHRACENE TOTAL (UG/L) (34220)	BENZIDINE TOTAL (UG/L) (39120)
12-10-91	--	--	--	--	--	--	--	--	--
12-18-91	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
02-07-92	--	--	--	--	--	--	--	--	--
03-02-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
03-08-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
07-11-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
08-22-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
12-08-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0

DATE	BENZO A ANTHRACENE1,2-BENZANTHRACENE TOTAL (UG/L) (34526)	BENZO B FLUORANTHENE TOTAL (UG/L) (34230)	BENZO K FLUORANTHENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZOGHI PERYLENE1,12-BENZOPERYLENE TOTAL (UG/L) (34521)	N-BUTYLBENZYLPHTHALATE TOTAL (UG/L) (34292)	BIS (2-CHLOROETHOXY) METHANE TOTAL (UG/L) (34278)	BIS 2-CHLOROETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLOROISOPROPYL) ETHER TOTAL (UG/L) (34283)
12-10-91	--	--	--	--	--	--	--	--	--
12-18-91	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
02-07-92	--	--	--	--	--	--	--	--	--
03-02-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
03-08-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
07-11-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
08-22-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
12-08-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0

ORGANICS ANALYSES - Continued

DATE	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/L) (34641)	CHRY-SENE TOTAL (UG/L) (34320)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L) (39110)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	DIETHYL-PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL-PHTHAL-ATE TOTAL (UG/L) (34341)
12-10-91	--	--	--	--	--	--	--	--	--
12-18-91	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
02-07-92	--	--	--	--	--	--	--	--	--
03-02-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
03-08-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
07-11-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
08-22-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
12-08-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0

DATE	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	DI-N-OCTYL-PHTHAL-ATE TOTAL (UG/L) (34596)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	FLUOR-ENE TOTAL (UG/L) (34381)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)
12-10-91	--	--	--	--	--	--	--	--	--
12-18-91	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
02-07-92	--	--	--	--	--	--	--	--	--
03-02-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-08-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
07-11-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
08-22-92	<5.0	<5.0	<10.0	5.0	<5.0	<5.0	<5.0	<5.0	<5.0
12-08-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	NITRO-BENZENE TOTAL (UG/L) (34447)	N-NITRO-SODI-METHYL-AMINE TOTAL (UG/L) (34438)	N-NITRO-SODI-PHENYL-AMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
12-10-91	--	--	--	--	--	--	--	--	--
12-18-91	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
02-07-92	--	--	--	--	--	--	--	--	--
03-02-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-08-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
07-11-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
08-22-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
12-08-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

PESTICIDES ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; DDE, dichlorodiphenylethylene; DDD, dichlorodiphenyldichloroethane; DDT, dichlorodiphenyltrichloroethane; PCB, polychlorinated biphenyl]

DATE	TIME	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXACHLORIDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	DELTA BENZENE HEXACHLORIDE TOTAL (UG/L) (34259)	HEPTACHLOR, TOTAL (UG/L) (39410)	ALDRIN, TOTAL (UG/L) (39330)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	CHLORDANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	ENDOSULFAN-I WATER WHOLE REC (UG/L) (34361)
12-18-91	0733	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
03-02-92	1327	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
03-08-92	1439	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
07-11-92	0105	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
08-22-92	0926	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
12-08-92	0713	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10

DATE	CHLORDANE CIS WATER WHOLE TOTAL (UG/L) (39062)	DIELDRIN TOTAL (UG/L) (39380)	P,P' DDE, TOTAL (UG/L) (39320)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ENDOSULFAN BETA TOTAL (UG/L) (34356)	P,P' DDD, TOTAL (UG/L) (39310)	ENDRIN ALDEHYDE TOTAL (UG/L) (34366)	ENDOSULFAN SULFATE TOTAL (UG/L) (34351)	P,P' DDT, TOTAL (UG/L) (39300)
12-18-91	<0.10	<0.020	0.14	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
03-02-92	<0.10	<0.020	0.67	<0.060	<0.04	<0.10	<0.20	<0.60	0.10
03-08-92	<0.10	<0.020	1.1	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
07-11-92	<0.10	<0.020	0.35	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
08-22-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
12-08-92	<0.10	<0.020	0.40	<0.060	<0.04	<0.10	<0.20	<0.60	0.10

DATE	CHLORDANE, TOTAL (UG/L) (39350)	TOXAPHENE, TOTAL (UG/L) (39400)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)
12-18-91	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
03-02-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
03-08-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	0.3	<0.1
07-11-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
08-22-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
12-08-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS

[US/CM, microsiemens per centimeter]

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
MAR 1992		
02...	1318	157
02...	1329	198
02...	1335	274
02...	1342	275
02...	1350	283
02...	1400	266
02...	1411	246
02...	1423	230
02...	1436	230
02...	1448	256
02...	1459	266
MAR 1992		
08...	1431	120
08...	1441	183
08...	1449	182
08...	1459	165
08...	1509	162
08...	1520	164
08...	1527	174
08...	1534	186
08...	1541	190
08...	1554	187
JUL 1992		
10...	2324	254
10...	2326	314
10...	2329	315
10...	2332	285
10...	2338	253
10...	2351	226
11...	0012	209
11...	0029	219
11...	0041	207
11...	0053	177
11...	0102	159
11...	0111	154
11...	0123	148
11...	0138	148
11...	0154	148
11...	0206	147
DEC 1992		
08...	0336	159
08...	0338	170
08...	0340	163
08...	0343	165
08...	0345	166
08...	0356	121
08...	0402	126
08...	0408	133
08...	0414	146
08...	0421	142
08...	0429	139
08...	0438	134
08...	0449	128
08...	0502	125
08...	0517	117
08...	0534	113
08...	0553	113
08...	0655	119
08...	0707	85
08...	0711	94
08...	0715	92
08...	0719	93
08...	0724	89
08...	0730	97
FEB 1994		
07...	2021	281
07...	2024	266
07...	2026	267
07...	2029	265
07...	2031	263
07...	2040	231
07...	2049	207
07...	2059	197
07...	2110	199
07...	2118	190
07...	2126	188
07...	2135	178
07...	2144	178
07...	2253	193
07...	2301	192
07...	2307	185
07...	2313	184
07...	2319	184
07...	2325	183
07...	2332	180
07...	2340	182
OCT 1994		
15...	1056	155
15...	1056	155
15...	1058	186
15...	1100	200
15...	1102	302
15...	1104	268
15...	1106	219
15...	1108	228
15...	1110	215
15...	1112	199
15...	1114	198
15...	1116	199
15...	1118	192
15...	1120	184
15...	1122	183
15...	1124	184
15...	1126	174
15...	1128	171
15...	1130	168
15...	1132	163
15...	1134	157
15...	1136	154
15...	1139	159
15...	1142	163
DEC 1994		
05...	0939	220
05...	1425	295
05...	1428	285
05...	1430	283
05...	1433	288
05...	1439	286
05...	1444	293
05...	1449	293
05...	1453	291
05...	1457	256
05...	1501	258
05...	1506	274
05...	1510	271
05...	1514	265
05...	1518	265
05...	1522	269
05...	1526	272

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS - Continued

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
DEC 1994			JAN 1995		
05...	1530	276	04...	1835	262
05...	1534	271	04...	1841	251
05...	1538	263	04...	1848	246
05...	1542	258	04...	1857	247
05...	1546	253	04...	1908	251
05...	1550	249	04...	2103	254
05...	1555	250	04...	2112	195
JAN 1995			04...	2121	206
04...	1802	278	04...	2130	224
04...	1805	256	04...	2139	225
04...	1807	237	04...	2148	215
04...	1809	226	04...	2157	200
04...	1811	217	04...	2205	191
04...	1817	215	04...	2213	196
04...	1823	295	04...	2221	193
04...	1829	272	04...	2229	209

TOXICITY ANALYSES

[EC20, effective concentration for 20-percent reduction in biological activity; N/T, nontoxic; STIM, stimulatory effect; dashes indicate no data]

DATE	TIME	EC20, WHOLE WATER AT 5 MINUTES (percent)	EC20, WHOLE WATER, AT 15 MINUTES (percent)	EC20, FILTERED WATER, AT 5 MINUTES (percent)	EC20, FILTERED WATER, AT 15 MINUTES (percent)
02-07-94	2305	45.2	41.3	33.4	N/T
03-25-94	1910	N/T	N/T	32.7	52.9
10-15-94	1103	28.4	15.9	51.4	38.0
12-05-94	1521	55.4	32.7	51.5	45.8
01-04-95	1821	STIM	STIM	STIM	STIM

09513700 AGUA FRIA RIVER TRIBUTARY AT YOUNGTOWN

LOCATION:—Lat 33°34'47", long 112°18'02", in NW 1/4 NE 1/4 NW 1/4 sec 30, T. 3 N., R. 1 E., Maricopa County, Hydrologic Unit 15070102, on south-side of Peoria Avenue, 1,500 ft west of 111th Avenue.

DRAINAGE AREA:—81.4 acres, of which 33 percent is impervious area.

PERIOD OF RECORD:—October 1991 to October 1993, discontinued.

INSTRUMENTATION:—Water-stage recorder, datalogger, and automatic-sampler. Datum of gage is 1,040 ft above sea level, from topographic map.

REMARKS:—Residential land-use site.

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES

[MGD, million gallons per day; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; <, actual value is known to be less than value shown; K, nonideal colony count; WH, whole, IT, incremental titration; DIS, dissolved, TOT, total; WAT, water; MF, membrane filter. Dashes indicate no data]

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. (CUBIC FEET PER SECOND) (00061)	STORM WATER FLOW (MGD) (81395)	PRECIPITATION TOTAL (INCHES/ STORM) (82381)	MAXIMUM 5 MINUTE PRECIPITATION INTENSITY (INCHES) (00129)	ELAPSED TIME OF STORM (HOURS) (00135)	DRY DAYS BEFORE PRECIPITATION EVENT (DAYS) (00132)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
10-27-91	0909	0.86	1.7	0.07	0.52	0.13	3.1	57.0	87	7.2
11-29-91	2332	0.47	0.33	0.03	0.34	0.05	10.2	15.0	99	7.3
12-10-91	1817	1.75	18	0.40	0.72	0.28	7.8	11.0	76	7.9
02-07-92	0320	0.67	0.83	0.08	0.38	0.02	8.9	47.0	52	7.1
03-27-92	0333	0.61	0.65	0.06	0.34	0.02	8.0	50.0	76	7.9
07-24-92	0553	--	--	--	--	--	--	--	81	7.8
07-24-92	1037	0.40	0.22	--	--	--	--	--	--	--
08-22-92	2221	0.71	0.96	0.05	0.40	0.11	21.9	17.0	175	7.2

DATE	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, 0.45 UM-MF (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
10-27-91	25.0	723	6.5	140	12	4600	1000	9.3	0.78	1.8
11-29-91	10.0	724	10.0	150	55	5800	1700	14	1.6	7.1
12-10-91	15.0	727	9.8	<10	30	2600	K12000	7.6	0.80	1.5
02-07-92	14.5	727	8.7	60	<5.0	970	2600	6.7	0.63	2.2
03-27-92	16.5	725	8.8	120	65	2700	8500	12	0.97	2.3
07-24-92	28.0	725	8.6	--	--	--	--	--	--	--
07-24-92	--	--	--	--	--	--	--	--	--	--
08-22-92	30.0	729	5.7	150	18	>6000	1900	13	0.96	2.1

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)
10-27-91	1.7	46	22	0	0	38	18	3.2	2.8
11-29-91	2.0	34	36	0	0	28	29	7.3	12
12-10-91	1.2	156	23	0	0	128	19	3.0	2.3
02-07-92	1.0	22	23	0	0	18	19	2.0	1.0
03-27-92	1.6	34	26	0	0	28	22	3.6	2.5
07-24-92	--	--	--	--	--	--	--	--	--
07-24-92	--	--	--	--	--	--	--	--	--
08-22-92	1.4	30	30	0	0	24	24	6.8	2.1

DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
10-27-91	1.4	59	<1	0.640	0.080	0.720	0.630	2.3	0.430
11-29-91	3.9	100	92	1.44	0.060	1.50	0.890	1.7	0.190
12-10-91	1.9	51	910	0.540	0.080	0.620	0.170	2.2	0.680
02-07-92	2.6	46	3	0.380	0.040	0.420	0.480	0.90	0.110
03-27-92	2.4	64	117	0.590	0.060	0.650	0.520	1.2	0.150
07-24-92	--	--	216	0.530	0.020	0.550	0.480	1.7	0.300
07-24-92	--	--	88	0.380	0.020	0.400	0.310	0.80	0.160
08-22-92	3.2	105	118	0.960	0.040	1.00	0.980	1.9	0.140

DATE	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	ANTIMONY TOTAL (UG/L AS SB) (99897)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)
10-27-91	0.180	34	<0.010	7	8	<10.0	5	11	<10
11-29-91	0.120	36	<0.010	5	2	<10.0	4	15	<10
12-10-91	0.100	46	<0.010	2	3	<10.0	14	10	<10
02-07-92	0.080	14	<0.010	<1	<1	<20.0	3	6	<10
03-27-92	0.120	36	<0.010	6	1	<20.0	3	14	<10
07-24-92	--	--	--	--	--	<10.0	--	--	--
07-24-92	--	--	--	--	--	<10.0	--	--	--
08-22-92	0.030	48	<0.010	12	9	<20.0	2	16	<10

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)
10-27-91	<0.5	1	<1.0	12	<5	<3	33	<10	35
11-29-91	<0.5	<1	<1.0	10	<5	<3	--	<10	32
12-10-91	<0.5	1	<1.0	<1	<5	<3	--	<10	36
02-07-92	<0.5	<1	<1.0	4	<5	<3	7	<10	31
03-27-92	0.8	<1	<1.0	6	<5	<3	--	<10	19
07-24-92	--	--	--	--	--	--	--	--	--
07-24-92	--	--	--	--	--	--	--	--	--
08-22-92	<0.5	<1	<1.0	8	<5	<3	14	<10	66

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, TOTAL (UG/L AS SE) (01147)
10-27-91	51	<10	<4	34	<0.10	<10	17	<10	<1
11-29-91	23	<10	<4	43	<0.10	<10	11	<10	<2
12-10-91	99	<10	<4	6	<0.10	<10	35	<10	<2
02-07-92	8	<10	<4	20	<0.10	<10	4	<10	<2
03-27-92	19	<10	<4	29	<0.10	<10	8	<10	<2
07-24-92	--	--	--	--	--	--	--	--	--
07-24-92	--	--	--	--	--	--	--	--	--
08-22-92	28	10	<4	46	<0.10	<10	10	<10	<2

DATE	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, TOTAL (UG/L AS AG) (99895)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	THALLIUM, TOTAL (UG/L AS TL) (01059)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (99896)
10-27-91	<1	<1.00	<1.0	47	<10	<6	170	12	<0.010
11-29-91	<1	<2.00	1.0	73	<5	<6	110	15	<0.010
12-10-91	<1	<2.00	<1.0	55	<10	<6	250	8	<0.010
02-07-92	<1	<0.500	<1.0	32	<5	<6	30	8	<0.010
03-27-92	<1	<1.00	1.0	53	<5	<6	80	12	<0.010
07-24-92	--	<0.500	--	--	<5	--	--	--	--
07-24-92	--	<0.500	--	--	<5	--	--	--	--
08-22-92	<1	<0.500	<1.0	49	<5	8	100	18	<0.010

ORGANICS ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; REC, recoverable; UNF, unfiltered; WH, whole; WAT, water]

DATE	TIME	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)
10-27-91	0909	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
11-29-91	2332	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
12-10-91	1817	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
02-07-92	0320	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
03-27-92	0333	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
08-22-92	2221	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2

DATE	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-TRANSDI-CHLORO-ETHENE TOTAL (UG/L) (34546)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)
10-27-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
11-29-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
12-10-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
02-07-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-27-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
08-22-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)
10-27-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
11-29-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
12-10-91	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
02-07-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
03-27-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
08-22-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2

ORGANICS ANALYSES - Continued

DATE	METHYL-CHLORIDE TOTAL (UG/L) (34418)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	STYRENE TOTAL (UG/L) (77128)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,1-DI-CHLORO-PROPENE, WAT, WH TOTAL (UG/L) (77168)	2,2-DI-CHLORO-PROPANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)
10-27-91	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
11-29-91	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
12-10-91	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
02-07-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
03-27-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
08-22-92	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2

DATE	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	123-TRI-CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	METHYL-ETHER TERT-BUTYL WAT UNF REC (UG/L) (78032)	METHANE BROMO-CHLORO-WAT UNFLTRD REC (UG/L) (77297)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)
10-27-91	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
11-29-91	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
12-10-91	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
02-07-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
03-27-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
08-22-92	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	PSEUDO-CUMENE WATER UNFLTRD REC (UG/L) (77222)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	NAPHTH-ALENE TOTAL (UG/L) (34696)
10-27-91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
11-29-91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
12-10-91	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
02-07-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
03-27-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
08-22-92	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2

ORGANICS ANALYSES - Continued

DATE	1,2,3-TRICHLOROBENZENE WAT, WH REC (UG/L) (77613)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	MESITYLENE WATER UNFLTRD REC (UG/L) (77226)	BROMOBENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	PARACHLOROMETA CRESOL TOTAL (UG/L) (34452)	2-CHLOROPHENOL TOTAL (UG/L) (34586)	2,4-DICHLOROPHENOL TOTAL (UG/L) (34601)	2,4,6-TRICHLOROPHENOL TOTAL (UG/L) (34621)	2,4-DIMETHYLPHENOL TOTAL (UG/L) (34606)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)
10-27-91	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
11-29-91	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
12-10-91	<0.20	<0.5	<0.20	<3.0	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
02-07-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
03-27-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
08-22-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0

DATE	2,4,-DINITROPHENOL TOTAL (UG/L) (34616)	2-NITROPHENOL TOTAL (UG/L) (34591)	4-NITROPHENOL TOTAL (UG/L) (34646)	PENTACHLOROPHENOL TOTAL (UG/L) (39032)	PHENOL (C6H5OH) TOTAL (UG/L) (34694)	ACENAPHTHENE TOTAL (UG/L) (34205)	ACENAPHTHYLENE TOTAL (UG/L) (34200)	ANTHRACENE TOTAL (UG/L) (34220)	BENZIDINE TOTAL (UG/L) (39120)
10-27-91	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
11-29-91	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
12-10-91	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
02-07-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
03-27-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
08-22-92	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0

DATE	BENZO A ANTHRACENE 1,2-BENZANTHRACENE TOTAL (UG/L) (34526)	BENZO B FLUORANTHENE TOTAL (UG/L) (34230)	BENZO K FLUORANTHENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZOGHI PERYLENE 1,12-BENZOPERYLENE TOTAL (UG/L) (34521)	N-BUTYL BENZYLPHTHALATE TOTAL (UG/L) (34292)	BIS (2-CHLOROETHOXY) METHANE TOTAL (UG/L) (34278)	BIS 2-CHLOROETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLOROISOPROPYL) ETHER TOTAL (UG/L) (34283)
10-27-91	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
11-29-91	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
12-10-91	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
02-07-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
03-27-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
08-22-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0

ORGANICS ANALYSES - Continued

DATE	4-BROMOPHENYL PHENYL ETHER TOTAL (UG/L) (34636)	2-CHLORONAPHTHALENE TOTAL (UG/L) (34581)	4-CHLOROPHENYL PHENYL ETHER TOTAL (UG/L) (34641)	CHRYSENE TOTAL (UG/L) (34320)	1,2,5,6-DIBENZANTHRACENE TOTAL (UG/L) (34556)	DI-N-BUTYLPHTHALATE TOTAL (UG/L) (39110)	3,3'-DICHLOROBENZIDINE TOTAL (UG/L) (34631)	DIETHYLPHTHALATE TOTAL (UG/L) (34336)	DIMETHYLPHTHALATE TOTAL (UG/L) (34341)
10-27-91	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
11-29-91	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
12-10-91	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
02-07-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
03-27-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
08-22-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0

DATE	2,4-DINITROTOLUENE TOTAL (UG/L) (34611)	2,6-DINITROTOLUENE TOTAL (UG/L) (34626)	DI-N-OCTYLPHTHALATE TOTAL (UG/L) (34596)	BIS(2-ETHYLHEXYL)PHTHALATE TOTAL (UG/L) (39100)	FLUORENE TOTAL (UG/L) (34381)	FLUORANTHENE TOTAL (UG/L) (34376)	HEXACHLOROBENZENE TOTAL (UG/L) (39700)	HEXACHLOROCYCLOPENTADIENE TOTAL (UG/L) (34386)	HEXACHLOROETHANE TOTAL (UG/L) (34396)
10-27-91	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
11-29-91	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
12-10-91	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
02-07-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-27-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
08-22-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	INDENO(1,2,3-CD)PYRENE TOTAL (UG/L) (34403)	ISOPHORONE TOTAL (UG/L) (34408)	NITROBENZENE TOTAL (UG/L) (34447)	N-NITROSODIMETHYLAMINE TOTAL (UG/L) (34438)	N-NITROSODIPHENYLAMINE TOTAL (UG/L) (34433)	N-NITROSODI-N-PROPYLAMINE TOTAL (UG/L) (34428)	PHENANTHRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	1,2-DIPHENYLHYDRAZINE WATER TOT.REC (UG/L) (82626)
10-27-91	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
11-29-91	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
12-10-91	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
02-07-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-27-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
08-22-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

PESTICIDES ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; PCB, polychlorinated biphenyl; DDE, dichlorodiphenylethylene; DDD, dichlorodiphenyldichloroethane; DDT, dichlorodiphenyltrichloroethane]

DATE	TIME	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	ALDRIN, TOTAL (UG/L) (39330)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)
10-27-91	0909	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
11-29-91	2332	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
12-10-91	1817	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
02-07-92	0320	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
03-27-92	0333	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
08-22-92	2221	<0.03	<0.30	<0.030	<0.90	<0.030	<0.040	<8.0	<0.10	<1.0

DATE	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	DI-ELDRIN TOTAL (UG/L) (39380)	P,P' DDE, TOTAL (UG/L) (39320)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ENDO-SULFAN BETA TOTAL (UG/L) (34356)	P,P' DDD, TOTAL (UG/L) (39310)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	P,P' DDT, TOTAL (UG/L) (39300)
10-27-91	<0.10	<0.020	0.07	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
11-29-91	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
12-10-91	<0.10	0.040	0.50	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
02-07-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
03-27-92	<0.10	<0.020	0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
08-22-92	<0.10	<0.20	<0.04	<0.600	<0.40	<0.10	<2.0	<6.0	<0.10

DATE	CHLOR-DANE, TOTAL (UG/L) (39350)	TOX-APHENE, TOTAL (UG/L) (39400)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)
10-27-91	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
11-29-91	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
12-10-91	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
02-07-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
03-27-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
08-22-92	<0.1	<20	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS

[US/CM, microsiemens per centimeter]

Date	Time	Specific conductance (US/CM) 00095)	Date	Time	Specific conductance (US/CM) 00095)	Date	Time	Specific conductance (US/CM) 00095)
OCT 1991			MAR 1992			AUG 1992		
27	0750	105	27	0242	92	22	0901	169
27	0759	104	27	0256	83	22	1200	165
27	0807	63	27	0306	102	22	1202	161
27	0815	69	27	0315	102	22	1204	167
27	0821	75	27	0324	96	22	1206	169
27	0827	72	27	0332	76	22	2208	81
27	0833	70	27	0551	72	22	2222	85
27	0840	66	27	0621	75	22	2229	79
27	0847	67	27	0638	70	22	2239	74
27	0854	66	27	0650	67	22	2254	69
27	0900	63	27	0700	68	22	2330	69
27	0906	64	27	0710	67	22	2338	70
27	0912	58	27	0720	67	22	0353	91
27	0918	57	27	0730	62	22	0439	69
27	0924	55	27	0741	60	22	0544	69
27	0932	54	27	0754	71	23	0642	75
27	0943	51	27	0810	76	23		
27	1002	53	27	0834	84	23		
			27	0943	179			

09513885 43RD AVENUE AND PEORIA AVENUE, AT PHOENIX

LOCATION:—Lat 33°34'56", long 112°09'04", in SE 1/4 SE 1/4 sec 21, T. 3 N., R. 2 E., Maricopa County, Hydrologic Unit 15060106, 1,000 ft north of northwest corner of 43rd Avenue and Peoria Avenue, north side of Arizona Canal Diversion Channel.

DRAINAGE AREA:—4.0 acres, of which 94 percent is impervious area.

PERIOD OF RECORD:—December 1992 to current year. Published as "43rd and Peoria," 1992-94.

INSTRUMENTATION:—Water-stage recorder, datalogger, and automatic-sampler. Datum of gage is 1,225 ft above sea level, from topographic map.

REMARKS:—Commercial land-use site.

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES

[MGD, million gallons per day; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; UG/L, micrograms per liter; K, nonideal colony count; WH, whole; IT, incremental titration; Dis, dissolved, TOT, total; <, actual value is known to be less than value shown; MF, membrane filter. Dashes indicate no data]

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	STORM WATER FLOW (MGD) (81395)	PRECIP-ITATION TOTAL (INCHES/ STORM) (82381)	MAXIMUM 5 MINUTE PRECIP-ITATION INTEN-SITY (INCHES) (00129)	ELAPSED TIME OF STORM (HOURS) (00135)	DRY DAYS BEFORE PRECIP-ITATION EVENT (DAYS) (00132)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
12-04-92	0523	0.30	1.2	0.05	0.68	0.02	12.7	36.0	82	6.9
01-06-93	2103	0.25	0.82	0.03	0.44	0.02	24.1	3.0	99	6.8
02-08-93	1941	0.36	1.7	0.06	0.76	0.02	19.5	18.0	130	6.3
03-26-93	1557	0.40	2.0	0.02	0.22	0.09	4.5	45.0	894	6.5
08-24-93	2343	0.41	2.1	0.02	0.29	0.07	2.0	16.0	104	6.5
10-06-93	1231	0.30	1.2	0.03	0.39	0.06	11.7	22.0	80	7.0
02-07-94	1957	0.22	0.60	0.08	0.28	--	--	13.0	34	6.9
03-07-94	1323	0.34	1.5	0.03	0.16	--	--	27.0	56	6.7
07-28-94	1948	0.20	0.47	0.02	0.12	0.05	0.35	10.0	298	5.8
09-02-94	1936	0.69	5.3	0.04	0.73	0.25	0.75	22.0	164	6.6
11-12-94	0342	0.22	0.59	0.04	0.20	0.05	1.9	27.0	110	5.9
12-05-94	0856	0.21	0.54	0.05	0.19	0.01	11.2	23.0	67	7.0
08-19-95	2005	0.29	0.94	0.02	0.38	0.10	1.3	4.0	199	6.4
09-06-95	2219	0.43	2.2	0.02	0.33	0.14	1.3	13.0	117	6.4

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL 0.45 UM-MF (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
12-04-92	14.5	730	10.0	97	16	K8000	6700	4.6	0.54	1.4
01-06-93	12.0	725	8.6	97	66	2700	K12000	4.9	0.53	1.5
02-08-93	16.0	730	8.2	180	9.0	2300	5200	4.9	0.66	1.7
03-26-93	22.0	725	5.6	330	63	K41000	K21000	15	1.7	12
08-24-93	27.0	730	--	160	30	--	K130	11	1.4	5.7
10-06-93	25.0	732	--	210	33	K400	K670	13	2.0	8.4
02-07-94	13.0	--	--	220	--	--	--	4.0	0.57	2.7
03-07-94	18.5	--	--	--	--	--	--	5.8	0.74	3.1
07-28-94	27.0	727	7.2	510	--	--	--	35	4.6	14
09-02-94	28.0	730	5.0	100	--	--	--	6.0	0.82	3.0
11-12-94	12.5	730	6.2	140	--	--	--	8.1	1.9	6.8
12-05-94	16.0	728	7.4	180	--	--	--	8.1	1.8	5.0
08-19-95	28.0	730	7.9	230	--	--	--	12	2.5	9.0
09-06-95	30.0	731	6.3	200	--	--	--	10	1.6	5.3

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
12-04-92	0.90	13	12	0	0	11	10	3.2	1.7	1.0
01-06-93	0.70	16	16	0	0	13	13	3.0	1.1	1.8
02-08-93	0.70	12	12	0	0	10	10	4.6	1.6	1.1
03-26-93	1.7	59	32	0	0	48	26	<0.10	8.1	1.4
08-24-93	1.5	26	17	0	0	21	14	12	5.8	1.1
10-06-93	1.7	29	26	0	0	24	21	17	8.1	1.4
02-07-94	1.0	--	8	--	0	--	7	3.5	1.8	--
03-07-94	1.3	11	10	0	0	9	8	5.7	2.8	--
07-28-94	5.0	26	21	0	0	21	17	39	15	--
09-02-94	1.1	15	12	0	0	12	10	6.7	3.0	--
11-12-94	1.6	16	17	0	0	13	14	11	8.8	--
12-05-94	1.9	23	22	0	0	19	18	8.0	5.3	--
08-19-95	2.1	22	11	0	0	18	9	19	9.3	--
09-06-95	1.3	24	10	0	0	20	8	13	5.4	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
12-04-92	46	22	0.490	0.060	--	0.550	--	1.70	--	2.6
01-06-93	33	240	0.320	--	0.090	0.410	0.410	--	0.680	1.3
02-08-93	38	144	0.350	--	0.060	0.410	0.410	--	0.720	1.6
03-26-93	164	337	1.45	--	0.050	1.50	1.50	--	1.80	4.7
08-24-93	126	42	0.760	0.020	--	0.780	--	1.20	--	3.4
10-06-93	165	40	1.07	0.030	--	1.10	--	1.00	--	4.9
02-07-94	57	16	0.360	0.060	--	0.420	--	1.20	--	2.7
03-07-94	77	76	0.810	0.030	--	0.840	--	1.60	--	3.6
07-28-94	395	100	3.85	0.050	--	3.90	--	5.30	--	12
09-02-94	69	90	0.950	0.010	--	0.960	--	1.30	--	2.4
11-12-94	96	36	0.890	0.060	--	0.950	--	0.920	--	3.1
12-05-94	100	60	0.740	0.110	--	0.850	--	2.20	--	4.0
08-19-95	160	78	1.28	0.020	--	1.30	--	2.20	--	5.3
09-06-95	114	182	1.18	0.020	--	1.20	--	2.20	--	3.9

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)	ANTI-MONY TOTAL (UG/L AS SB) (99897)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
12-04-92	0.220	0.200	--	26	0.020	33	2	<10.0	2	6
01-06-93	0.160	0.050	--	21	<0.010	--	5	<10.0	3	6
02-08-93	0.180	0.070	--	29	<0.010	12	5	<10.0	1	7
03-26-93	0.380	0.240	--	96	0.010	21	5	<10.0	4	21
08-24-93	0.800	0.580	0.390	47	--	7	2	<10.0	2	10
10-06-93	0.750	0.630	0.370	76	0.010	29	1	<10.0	2	16
02-07-94	0.490	0.400	0.250	52	<0.010	29	2	--	<1	--
03-07-94	0.330	0.240	0.240	43	<0.010	6	3	--	<1	--
07-28-94	1.00	0.930	0.850	160	0.010	10	1	--	4	--
09-02-94	0.440	0.320	0.230	34	<0.010	12	3	--	1	--
11-12-94	0.590	0.470	0.340	43	0.010	10	4	--	1	--
12-05-94	0.480	0.430	0.360	50	0.010	30	<1	--	3	--
08-19-95	0.610	0.460	0.320	72	--	13	1	--	2	--
09-06-95	0.530	0.410	0.230	48	0.010	12	4	--	7	--

DATE	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
12-04-92	<10	0.8	<1	<1.0	3	<5	<3	9	<10	41
01-06-93	<10	<0.5	<1	<1.0	4	<5	<3	8	<10	27
02-08-93	<10	<0.5	<1	3.0	11	<5	<3	13	<10	27
03-26-93	<10	<0.5	<1	<1.0	11	<5	<3	26	10	110
08-24-93	<10	0.6	<1	<1.0	3	<5	<3	13	10	150
10-06-93	<10	<0.5	<1	<1.0	2	<5	<3	17	10	210
02-07-94	<10	--	<1	--	2	--	--	7	--	--
03-07-94	<10	--	<1	--	3	--	--	12	--	--
07-28-94	<10	--	1	--	10	--	--	44	--	--
09-02-94	<10	--	<1	--	4	--	--	17	--	--
11-12-94	<10	--	<1	--	3	--	--	11	--	--
12-05-94	<10	--	<1	--	3	--	--	14	--	--
08-19-95	<10	--	<1	--	4	--	--	21	--	--
09-06-95	<10	--	1	--	10	--	--	37	--	--

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
12-04-92	3	<10	<4	57	<0.10	10	5	<10	<2
01-06-93	8	<10	<4	28	<0.10	<10	5	<10	<2
02-08-93	12	<10	<4	47	<0.10	<10	13	<10	<2
03-26-93	27	<10	<4	140	<0.10	<10	23	10	<2
08-24-93	7	<10	<4	140	<0.10	<10	7	<10	<1
10-06-93	8	<10	<4	160	<0.10	<10	9	<10	1
02-07-94	5	--	--	--	<0.10	--	3	--	<1
03-07-94	7	--	--	--	<0.10	--	5	--	<1
07-28-94	16	--	--	--	0.10	--	24	--	<1
09-02-94	12	--	--	--	<0.10	--	8	--	<1
11-12-94	6	--	--	--	<0.10	--	5	--	<1
12-05-94	6	--	--	--	<0.10	--	5	--	<1
08-19-95	10	--	--	--	<0.10	--	11	--	<1
09-06-95	20	--	--	--	<0.10	--	19	--	<1

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, TOTAL (UG/L AS AG) (99895)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (99896)
12-04-92	<1	<0.500	<1.0	27	<5	<6	90	59	<0.010
01-06-93	<1	<1.00	<1.0	28	<5	<6	90	25	<0.010
02-08-93	<1	<0.500	<1.0	31	<5	<6	110	27	<0.010
03-26-93	<1	<1.00	<1.0	91	<5	11	270	56	<0.010
08-24-93	<1	<0.500	<1.0	63	<5	9	180	140	--
10-06-93	<1	<0.500	<1.0	83	<5	10	280	260	<0.010
02-07-94	<1	--	--	--	--	--	110	--	--
03-07-94	<1	--	--	--	--	--	130	--	--
07-28-94	<1	--	--	--	--	--	490	--	--
09-02-94	<1	--	--	--	--	--	200	--	--
11-12-94	<1	--	--	--	--	--	160	--	--
12-05-94	<1	--	--	--	--	--	140	--	--
08-19-95	<1	--	--	--	--	--	280	--	--
09-06-95	<1	--	--	--	--	--	270	--	--

ORGANICS ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; REC, recoverable; UNF, unfiltered; WH, whole; WAT, water]

DATE	TIME	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)
12-04-92	0523	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
01-06-93	2103	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
02-08-93	1941	<20	<20	<20	<20	<20	<20	<20	<20	<20
03-26-93	1557	<20	<20	<20	<20	<20	<20	<20	<20	<20
08-24-93	2343	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
10-06-93	1231	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-TRANSDI-CHLORO-ETHENE TOTAL (UG/L) (34546)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	ETHANE, 1,1,2,2 TETRA-CHLORO WAT UNF REC (UG/L) (34516)
12-04-92	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
01-06-93	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
02-08-93	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
03-26-93	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
08-24-93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
10-06-93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)
12-04-92	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
01-06-93	<0.2	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
02-08-93	<20	<20	<20	<20	<20	<20	<20	<5.0	<5.0	<20
03-26-93	<20	<20	<20	<20	<20	<20	<20	<5.0	<5.0	<20
08-24-93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
10-06-93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	STYRENE TOTAL (UG/L) (77128)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)	2,2-DI-CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)
12-04-92	<0.2	<0.20	<0.2	<0.2	<0.2	0.30	<1.0	<0.2	<0.2	<0.2
01-06-93	<0.2	<0.20	<0.2	<0.2	<0.2	0.20	<1.0	<0.2	<0.2	<0.2
02-08-93	<20	<5.0	<20	<20	<20	<20	<100	<20	<20	<20
03-26-93	<20	<5.0	<20	<20	<20	<20	<100	<20	<20	<20
08-24-93	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0	<1.0	<1.0	<1.0
10-06-93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0

ORGANICS ANALYSES - Continued

DATE	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	METHYL-ETHER TERT-BUTYL WAT UNF REC (UG/L) (78032)	METHANE BROMO-CHLORO-WAT UNFLTRD REC (UG/L) (77297)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)
12-04-92	<0.2	<0.20	<0.2	<0.2	<20	<20	2.5	<0.20	<0.2	<1.0
01-06-93	<0.2	<0.20	<0.2	<0.2	<20	<20	1.0	<0.20	<0.2	<1.0
02-08-93	<20	<20	<20	<20	<2000	<2000	<100	<20.0	<20	<100
03-26-93	<20	<20	<20	<20	<20	<20	<100	<20.0	<20	<100
08-24-93	<1.0	<1.0	<1.0	<1.0	<100	<100	<5.0	1.00	<1.0	<5.0
10-06-93	<5.0	<5.0	<5.0	<5.0	<500	<500	<25	<5.00	<5.0	<25

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	PSEUDO-CUMENE WATER UNFLTRD REC (UG/L) (77222)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	NAPHTH-ALENE TOTAL (UG/L) (34696)
12-04-92	<0.20	<0.20	<0.20	0.30	<0.20	<0.20	<0.20	<0.20	<0.2	<3.9
01-06-93	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	0.4
02-08-93	<20	<20	<20	<20	<20	<20	<20	<5.0	<5.0	<5.0
03-26-93	<20	<20	<20	<20	<20	<20	<20	<5.0	<5.0	<5.0
08-24-93	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
10-06-93	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	MESITY-LENE WATER UNFLTRD REC (UG/L) (77226)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)
12-04-92	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
01-06-93	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
02-08-93	<20	<50	<20	<20	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
03-26-93	<20	<50	<20	<20	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
08-24-93	<1.0	<2.5	<1.0	<1.0	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
10-06-93	<5.0	<13	<5.0	<5.0	--	--	--	--	--	--

DATE	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ACE-NAPHTHY-LENE TOTAL (UG/L) (34200)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZI-DINE TOTAL (UG/L) (39120)
12-04-92	<20.0	<5.0	<30.0	<30.0	7.0	<5.0	<5.0	<5.0	<40.0
01-06-93	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
02-08-93	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
03-26-93	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
08-24-93	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
10-06-93	--	--	--	--	--	--	--	--	--

ORGANICS ANALYSES - Continued

DATE	BENZO A ANTHRACENE 1,2-BENZANTHRACENE TOTAL (UG/L) (34526)	BENZO B FLUORANTHENE TOTAL (UG/L) (34230)	BENZO K FLUORANTHENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZOGHI PERYLENE 1,12-BENZOPERYLENE TOTAL (UG/L) (34521)	N-BUTYL BENZYL PHTHALATE TOTAL (UG/L) (34292)	BIS (2-CHLOROETHOXY) METHANE TOTAL (UG/L) (34278)	BIS 2-CHLOROETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLOROISOPROPYL) ETHER TOTAL (UG/L) (34283)
12-04-92	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
01-06-93	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
02-08-93	<10.0	14.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
03-26-93	<10.0	16.0	12.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
08-24-93	<10.0	19.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
10-06-93	--	--	--	--	--	--	--	--	--

DATE	4-BROMOPHENYL PHENYL ETHER TOTAL (UG/L) (34636)	2-CHLORONAPHTHALENE TOTAL (UG/L) (34581)	4-CHLOROPHENYL PHENYL ETHER TOTAL (UG/L) (34641)	CHRYSENE TOTAL (UG/L) (34320)	1,2,5,6-DIBENZANTHRACENE TOTAL (UG/L) (34556)	DI-N-BUTYL PHTHALATE TOTAL (UG/L) (39110)	3,3'-DICHLOROBENZIDINE TOTAL (UG/L) (34631)	DIETHYLPHTHALATE TOTAL (UG/L) (34336)	DIMETHYLPHTHALATE TOTAL (UG/L) (34341)
12-04-92	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
01-06-93	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
02-08-93	<5.0	<5.0	<5.0	13.0	<10.0	<5.0	<20.0	<5.0	<5.0
03-26-93	<5.0	<5.0	<5.0	17.0	<10.0	<5.0	<20.0	<5.0	<5.0
08-24-93	<5.0	<5.0	<5.0	14.0	<10.0	<5.0	<20.0	<5.0	<5.0
10-06-93	--	--	--	--	--	--	--	--	--

DATE	2,4-DINITROTOLUENE TOTAL (UG/L) (34611)	2,6-DINITROTOLUENE TOTAL (UG/L) (34626)	DI-N-OCTYLPHTHALATE TOTAL (UG/L) (34596)	BIS(2-ETHYLHEXYL) PHTHALATE TOTAL (UG/L) (39100)	FLUORENE TOTAL (UG/L) (34381)	FLUORANTHENE TOTAL (UG/L) (34376)	HEXACHLOROBENZENE TOTAL (UG/L) (39700)	HEXACHLOROCYCLOPENTADIENE TOTAL (UG/L) (34386)	HEXACHLOROETHANE TOTAL (UG/L) (34396)
12-04-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
01-06-93	<5.0	<5.0	<10.0	<5.0	<5.0	5.0	<5.0	<5.0	<5.0
02-08-93	<5.0	<5.0	<10.0	8.0	<5.0	13.0	<5.0	<5.0	<5.0
03-26-93	<5.0	<5.0	<10.0	8.0	<5.0	18.0	<5.0	<5.0	<5.0
08-24-93	<5.0	<5.0	<10.0	<5.0	<5.0	16.0	<5.0	<5.0	<5.0
10-06-93	--	--	--	--	--	--	--	--	--

DATE	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISOPHORONE TOTAL (UG/L) (34408)	NITROBENZENE TOTAL (UG/L) (34447)	N-NITROSODIMETHYLAMINE TOTAL (UG/L) (34438)	N-NITROSODIPHENYLAMINE TOTAL (UG/L) (34433)	N-NITROSODI-N-PROPYLAMINE TOTAL (UG/L) (34428)	PHENANTHRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	1,2-DIPHENYLHYDRAZINE WATER TOT.REC (UG/L) (82626)
12-04-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
01-06-93	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
02-08-93	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	10.0	<5.0
03-26-93	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	13.0	<5.0
08-24-93	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	11.0	<5.0
10-06-93	--	--	--	--	--	--	--	--	--

PESTICIDES ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; PCB, polychlorinated biphenyl; DDE, dichlorodiphenylethylene; DDD, dichlorodiphenyldichloroethane; DDT, dichlorodiphenyltrichloroethane]

DATE	TIME	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXACHLORIDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	DELTA BENZENE HEXACHLORIDE TOTAL (UG/L) (34259)	HEPTACHLOR, TOTAL (UG/L) (39410)	ALDRIN, TOTAL (UG/L) (39330)	HEPTACHLOR EPOXIDE TOTAL (UG/L) (39420)	CHLORDANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	ENDOSULFAN-I WATER WHOLE REC (UG/L) (34361)
12-04-92	0523	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
01-06-93	2103	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
02-08-93	1941	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
03-26-93	1557	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
08-24-93	2343	<0.03	<0.30	<0.030	<0.90	<0.030	<0.040	<8.0	<0.10	<1.0

DATE	CHLORDANE CIS WATER WHOLE TOTAL (UG/L) (39062)	DIELDRIN TOTAL (UG/L) (39380)	P,P' DDE, TOTAL (UG/L) (39320)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ENDOSULFAN BETA TOTAL (UG/L) (34356)	P,P' DDD, TOTAL (UG/L) (39310)	ENDRIN ALDEHYDE TOTAL (UG/L) (34366)	ENDOSULFAN SULFATE TOTAL (UG/L) (34351)	P,P' DDT, TOTAL (UG/L) (39300)
12-04-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
01-06-93	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
02-08-93	<0.10	<0.020	0.05	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
03-26-93	<0.10	<0.020	0.15	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
08-24-93	<0.10	<0.20	<0.04	<0.600	<0.40	<0.10	<2.0	<6.0	<0.10

DATE	CHLORDANE, TOTAL (UG/L) (39350)	TOXAPHENE, TOTAL (UG/L) (39400)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)
12-04-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
01-06-93	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
02-08-93	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
03-26-93	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
08-24-93	<0.1	<20	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS

[US/CM, microsiemens per centimeter]

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
DEC 1992		
03...	2351	181
04...	0026	113
04...	0058	87
04...	0131	72
04...	0211	56
04...	0244	53
04...	0352	66
04...	0417	45
04...	0446	36
04...	0509	31
04...	0526	27
04...	0547	27
04...	0616	26
04...	0637	22
04...	0655	21
04...	0714	19
04...	0743	20
04...	0817	22
04...	0849	25
04...	0918	25
JAN 1993		
06...	0008	76
06...	0411	45
06...	0812	52
06...	1059	66
06...	1136	55
06...	1211	49
06...	1308	52
06...	1409	58
06...	1515	59
06...	1603	50
06...	1626	50
06...	1716	48
06...	2043	51
06...	2105	44
06...	2119	38
06...	2136	34
06...	2155	32
06...	2213	30
06...	2231	28
06...	2253	29
06...	2332	30
FEB 1993		
08...	0600	116
08...	0602	116
08...	0604	110
08...	0606	114
08...	0645	104
08...	1303	80
08...	1401	61
08...	1450	48
08...	1536	46
08...	1557	36
08...	1617	30
08...	1645	29
08...	1930	42
08...	1939	24
08...	1946	18
08...	1956	18
08...	2016	19
08...	2051	18
08...	2108	17

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
FEB 1993		
08...	2122	15
08...	2137	15
08...	2155	15
08...	2233	17
08...	2400	24
FEB 1994		
07...	1741	98
07...	1743	114
07...	1745	119
07...	1747	130
07...	1805	106
07...	1833	82
07...	1900	68
07...	1925	51
07...	1944	42
07...	2002	38
07...	2020	31
07...	2039	30
07...	2104	30
07...	2156	31
07...	2241	35
07...	2303	29
07...	2333	30
08...	0021	34
08...	0124	33
JUL 1994		
28...	1944	223
28...	1947	538
28...	1949	497
28...	1951	436
28...	1953	461
28...	2000	407
28...	2009	349
28...	2019	305
28...	2028	299
28...	2037	302
28...	2048	303
28...	2100	272
SEP 1994		
02...	1927	232
02...	1929	1220
02...	1931	477
02...	1933	167
02...	1934	107
02...	1935	133
02...	1937	109
02...	1938	94
02...	1939	80
02...	1942	75
02...	1944	75
02...	1946	75
02...	1948	66
02...	1950	60
02...	1952	56
02...	1954	50
02...	1956	46
02...	1958	44
02...	2000	40
02...	2002	39
02...	2004	38
02...	2006	36
02...	2008	38
02...	2010	39

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS - Continued

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)	DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
NOV 1994			DEC 1994		
12...	0313	390	05...	0844	69
12...	0315	295	05...	0850	64
12...	0317	160	05...	0855	70
12...	0319	173	AUG 1995		
12...	0321	158	19...	1958	817
12...	0328	152	19...	1959	410
12...	0335	171	19...	2000	375
12...	0339	125	19...	2001	221
12...	0343	116	19...	2003	151
12...	0347	114	19...	2006	138
12...	0351	104	19...	2010	107
12...	0355	92	19...	2013	117
12...	0359	83	19...	2017	126
12...	0403	76	19...	2022	129
12...	0408	73	19...	2028	132
12...	0413	70	19...	2041	125
12...	0418	71	19...	2101	128
12...	0424	68	19...	2114	115
12...	0430	66	19...	2122	105
12...	0436	67	19...	2127	101
12...	0443	68	19...	2132	95
12...	0450	68	19...	2137	92
12...	0457	72	19...	2142	90
12...	0504	73	19...	2149	88
DEC 1994			19...	2159	88
05...	0146	158	19...	2211	87
05...	0148	251	SEP 1995		
05...	0150	179	06...	2206	201
05...	0152	170	06...	2207	645
05...	0154	166	06...	2208	298
05...	0209	146	06...	2209	271
05...	0221	128	06...	2211	214
05...	0228	117	06...	2213	150
05...	0234	108	06...	2215	122
05...	0240	102	06...	2217	104
05...	0246	96	06...	2220	108
05...	0252	90	06...	2221	98
05...	0300	85	06...	2223	84
05...	0311	81	06...	2225	79
05...	0324	79	06...	2227	79
05...	0338	75	06...	2230	68
05...	0354	75	06...	2234	67
05...	0412	74	06...	2239	70
05...	0812	115	06...	2246	83
05...	0826	107	06...	2258	102
05...	0838	81	06...	2324	132

TOXICITY ANALYSES

[EC20, effective concentration for 20-percent reduction in biological activity; N/T, nontoxic; STIM, stimulatory effect; dashes indicate no data]

DATE	TIME	EC20, WHOLE WATER AT 5 MINUTES (percent)	EC20, WHOLE WATER, AT 15 MINUTES (percent)	EC20, FILTERED WATER, AT 5 MINUTES (percent)	EC20, FILTERED WATER, AT 15 MINUTES (percent)
03-26-93	1557	15.9	N/T	16.9	N/T
08-24-93	2343	26.0	N/T	30.1	N/T
02-07-94	1957	41.4	N/T	42.4	49.6
07-28-94	1948	7.55	8.83	9.52	9.07
11-12-94	0342	26.4	29.0	27.5	35.3
12-05-94	0856	30.4	31.1	68.7	65.2
08-19-95	2005	17.1	18.0	25.0	21.7
09-06-95	2219	25.5	39.6	19.3	28.1

09513925 OLIVE AVENUE AND 67TH AVENUE AT GLENDALE

LOCATION:—Lat 33°34'03", long 112°12'07", in SW 1/4 SW 1/4 SW 1/4 sec 30, T. 3 N., R. 2 E., Maricopa County, Hydrologic Unit 15060106, east-side of 67th Avenue, 500 ft north of Olive Avenue.

DRAINAGE AREA:—17.8 acres, of which 60 percent is impervious area.

PERIOD OF RECORD:—March 1994 to current year.

INSTRUMENTATION:—Water-stage recorder, datalogger, and automatic-sampler. Datum of gage is 1,155 ft above sea level, from topographic map.

REMARKS:—Residential land-use site.

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES

[MGD, million gallons per day; US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; K, nonideal colony count; UG/L, micrograms per liter; <, actual value is known to be less than value shown; WH, whole; IT, incremental titration; DIS, dissolved; TOT, total; MF, membrane filter. Dashes indicate no data]

DATE	TIME	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. (CUBIC FEET PER SECOND) (00061)	STORM WATER FLOW (MGD) (81395)	PRECIP-ITATION TOTAL (INCHES/ STORM) (82381)	MAXIMUM 5 MINUTE PRECIP-ITATION INTEN-SITY (INCHES) (00129)	ELAPSED TIME OF STORM (HOURS) (00135)	DRY DAYS BEFORE PRECIP-ITATION EVENT (DAYS) (00132)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
03-07-94	1826	0.35	1.6	0.02	0.27	0.03	6.3	28.0	97	6.9
03-25-94	1722	0.38	2.1	0.02	0.14	0.05	0.73	4.0	45	7.7
09-13-94	1638	0.38	2.6	0.01	0.70	0.21	1.5	1.0	92	7.2
10-15-94	0819	0.30	0.90	0.01	0.29	0.14	0.77	19.0	81	7.6
12-29-94	1949	0.33	0.72	0.01	0.16	0.11	0.90	2.0	128	7.3
01-04-95	2208	0.30	0.49	0.04	0.74	0.03	17.8	5.0	60	8.3
08-11-95	2249	0.57	4.7	0.07	0.50	0.18	0.72	96.0	215	6.5
08-19-95	2019	0.29	0.78	0.02	0.30	0.06	2.1	4.0	81	7.1

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEM-ICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIO-CHEM-ICAL, 5 DAY (MG/L) (00310)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, 0.45 UM-MF (COLS. PER 100 ML) (31673)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
03-07-94	15.0	--	--	130	22	K1300	4700	7.7	0.89	4.1
03-25-94	14.0	--	--	160	18	2300	5900	11	1.4	6.4
09-13-94	28.0	728	6.3	130	14	K33000	9300	6.9	0.77	3.0
10-15-94	20.0	727	8.3	200	--	--	--	12	1.7	7.5
12-29-94	12.5	731	7.2	87	--	--	--	11	1.1	7.8
01-04-95	17.5	724	8.9	32	--	--	--	5.3	0.54	3.1
08-11-95	--	731	--	310	--	--	--	23	2.6	8.5
08-19-95	28.0	728	8.0	180	--	--	--	11	1.5	6.6

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
03-07-94	2.4	29	17	0	0	23	14	3.4	4.2	2.1
03-25-94	2.4	30	23	0	0	25	19	6.0	7.2	2.6
09-13-94	1.8	21	16	0	0	17	13	3.6	3.6	1.8
10-15-94	2.6	24	20	0	0	20	16	9.1	10	--
12-29-94	6.9	17	16	0	0	13	13	16	12	--
01-04-95	1.3	23	23	0	0	19	19	1.9	2.4	--
08-11-95	3.8	30	26	0	0	24	21	27	10	--
08-19-95	2.8	23	12	0	0	19	10	9.0	8.9	--

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUSPENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)
03-07-94	55	156	0.930	0.050	0.980	0.970	3.4	0.410	0.190
03-25-94	74	140	1.14	0.060	1.20	1.20	3.5	0.410	0.200
09-13-94	62	140	0.640	0.030	0.670	0.750	2.7	0.560	0.190
10-15-94	110	152	1.24	0.060	1.30	2.00	--	0.520	0.300
12-29-94	88	94	2.13	0.070	2.20	0.800	3.3	0.940	0.700
01-04-95	34	19	0.520	0.050	0.570	0.240	0.90	0.140	0.110
08-11-95	246	280	0.950	0.040	0.990	3.40	11	1.10	0.600
08-19-95	136	54	1.64	0.060	1.70	1.80	4.1	0.420	0.420

DATE	PHOSPHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)	ANTIMONY TOTAL (UG/L AS SB) (99897)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)
03-07-94	0.200	30	<0.010	2	3	<10.0	2	9	<10
03-25-94	0.210	34	<0.010	6	2	<10.0	2	15	<10
09-13-94	0.250	33	<0.010	4	9	<10.0	2	10	<10
10-15-94	0.400	60	<0.010	4	2	--	1	--	<10
12-29-94	0.660	18	<0.010	3	<1	--	1	--	<10
01-04-95	0.080	9.4	<0.010	7	4	--	<1	--	<10
08-11-95	0.990	95	0.020	10	<1	--	4	--	<10
08-19-95	0.280	52	--	8	<1	--	2	--	<10

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
03-07-94	<0.5	<1	<1.0	6	<5	<3	18	<10	40
03-25-94	<0.5	<1	<1.0	8	<5	<3	17	<10	41
09-13-94	<0.5	<1	<1.0	8	<5	<3	16	<10	62
10-15-94	--	<1	--	8	--	--	28	--	--
12-29-94	--	<1	--	6	--	--	31	--	--
01-04-95	--	<1	--	2	--	--	5	--	--
08-11-95	--	2	--	17	--	--	50	--	--
08-19-95	--	<1	--	4	--	--	16	--	--

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
03-07-94	21	<10	<4	20	<0.10	<10	8	<10	<1
03-25-94	25	<10	<4	30	<0.10	<10	10	<10	<1
09-13-94	33	<10	<4	30	<0.10	<10	14	<10	<1
10-15-94	23	--	--	--	<0.10	--	12	--	<1
12-29-94	25	--	--	--	0.10	--	8	--	<1
01-04-95	8	--	--	--	<0.10	--	3	--	<1
08-11-95	76	--	--	--	0.10	--	<1	--	<1
08-19-95	12	--	--	--	<0.10	--	10	--	<1

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, TOTAL (UG/L AS AG) (99895)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (99896)
03-07-94	<1	<0.500	<1.0	42	<5	<6	150	38	<0.010
03-25-94	<1	<2.00	<1.0	65	<10	<6	160	32	0.130
09-13-94	<1	<0.500	2.0	42	<5	7	200	35	<0.010
10-15-94	<1	--	--	--	--	--	220	--	--
12-29-94	<1	--	--	--	--	--	160	--	--
01-04-95	<1	--	--	--	--	--	40	--	--
08-11-95	<1	--	--	--	--	--	630	--	--
08-19-95	<1	--	--	--	--	--	140	--	--

ORGANICS ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown;REC, recoverable; UNF, unfiltered; WH, whole; WAT, water; dashes indicate no data]

DATE	TIME	DI-BROMO-METHANE WATER WHOLE RECOVER (UG/L) (30217)	BENZENE TOTAL (UG/L) (34030)	BROMO-FORM TOTAL (UG/L) (32104)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHLORO-FORM TOTAL (UG/L) (32106)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)
03-07-94	1826	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
03-25-94	1722	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2
09-13-94	1638	<0.2	<0.2	<0.2	<0.2	<0.20	<0.2	<0.2	<0.2	<0.2

DATE	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,2-TRANSDI-CHLORO-ETHENE TOTAL (UG/L) (34546)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	ETHYL-BENZENE TOTAL (UG/L) (34371)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	ETHANE, 1,1,2,2 TETRA-CHLORO-WAT UNF REC (UG/L) (34516)
03-07-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
03-25-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
09-13-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2

DATE	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TOLUENE TOTAL (UG/L) (34010)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	TRI-CHLORO-FLUORO-METHANE TOTAL (UG/L) (34488)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	1,2-DIBROMO-ETHANE WATER WHOLE TOTAL (UG/L) (77651)
03-07-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
03-25-94	<0.2	<0.2	<0.3	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2
09-13-94	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.20	<0.20	<0.2

DATE	METHYL-CHLO-RIDE TOTAL (UG/L) (34418)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	CIS 1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34704)	TRANS-1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34699)	STYRENE TOTAL (UG/L) (77128)	XYLENE WATER UNFLTRD REC (UG/L) (81551)	DIBROMO-CHLORO-PROPANE WATER WHOLE TOT.REC (UG/L) (82625)	1,1-DI-CHLORO-PRO-PENE, WAT, WH TOTAL (UG/L) (77168)	2,2-DI-CHLORO-PRO-PANE WAT, WH TOTAL (UG/L) (77170)	1,3-DI-CHLORO-PROPANE WAT. WH TOTAL (UG/L) (77173)
03-07-94	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
03-25-94	<0.2	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2
09-13-94	--	<0.20	<0.2	<0.2	<0.2	<0.20	<1.0	<0.2	<0.2	<0.2

ORGANICS ANALYSES - Continued

DATE	O-CHLORO-TOLUENE WATER WHOLE TOTAL (UG/L) (77275)	TOLUENE P-CHLOR WATER UNFLTRD REC (UG/L) (77277)	123-TRI CHLORO-PROPANE WATER WHOLE TOTAL (UG/L) (77443)	ETHANE, 1112-TETRA-CHLORO-WAT UNF REC (UG/L) (77562)	ACRO-LEIN TOTAL (UG/L) (34210)	ACRYLO-NITRILE TOTAL (UG/L) (34215)	METHYL-ETHER TERT-BUTYL WAT UNF REC (UG/L) (78032)	METHANE-BROMO-CHLORO-WAT UNFLTRD REC (UG/L) (77297)	CIS-1,2-DI-CHLORO-ETHENE WATER TOTAL (UG/L) (77093)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)
03-07-94	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
03-25-94	<0.2	<0.20	<0.2	<0.2	<20	<20	<1.0	<0.20	<0.2	<1.0
09-13-94	<0.2	<0.20	<0.2	<0.2	<20	<20	<0.2	<0.20	<0.2	<1.0

DATE	ISO-PROPYL-BENZENE WATER WHOLE REC (UG/L) (77223)	BENZENE N-PROPY WATER UNFLTRD REC (UG/L) (77224)	BENZENE TERT-BUTYL-WATER UNFLTRD REC (UG/L) (77353)	PSEUDO-CUMENE WATER UNFLTRD REC (UG/L) (77222)	BENZENE SEC BUTYL-WATER UNFLTRD REC (UG/L) (77350)	P-ISO-PROPYL-TOLUENE WATER WHOLE REC (UG/L) (77356)	BENZENE N-BUTYL WATER UNFLTRD REC (UG/L) (77342)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	NAPHTH-ALENE TOTAL (UG/L) (34696)
03-07-94	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
03-25-94	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2
09-13-94	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.2	<0.2

DATE	1,2,3-TRI-CHLORO BENZENE WAT, WH REC (UG/L) (77613)	FREON-113 WATER UNFLTRD REC (UG/L) (77652)	MESITY-LENE WATER UNFLTRD REC (UG/L) (77226)	BROMO-BENZENE WATER, WHOLE, TOTAL (UG/L) (81555)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)
03-07-94	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
03-25-94	<0.20	<0.5	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0
09-13-94	<0.20	<0.2	<0.20	<0.2	<30.0	<5.0	<5.0	<20.0	<5.0	<30.0

DATE	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZI-DINE TOTAL (UG/L) (39120)
03-07-94	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
03-25-94	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0
09-13-94	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0	<5.0	<40.0

ORGANICS ANALYSES - Continued

DATE	BENZO A ANTHRACENE 1,2-BENZANTHRACENE TOTAL (UG/L) (34526)	BENZO B FLUORANTHENE TOTAL (UG/L) (34230)	BENZO K FLUORANTHENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZOGHI PERYLENE1,12-BENZOPERYLENE TOTAL (UG/L) (34521)	N-BUTYL BENZYLPHTHALATE TOTAL (UG/L) (34292)	BIS (2-CHLOROETHOXY) METHANE TOTAL (UG/L) (34278)	BIS 2-CHLOROETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ISOPROPYL) ETHER TOTAL (UG/L) (34283)
03-07-94	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
03-25-94	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0
09-13-94	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0	<5.0

DATE	4-BROMOPHENYL PHENYL ETHER TOTAL (UG/L) (34636)	2-CHLORONAPHTHALENE TOTAL (UG/L) (34581)	4-CHLOROPHENYL PHENYL ETHER TOTAL (UG/L) (34641)	CHRYSENE TOTAL (UG/L) (34320)	1,2,5,6-DIBENZANTHRACENE TOTAL (UG/L) (34556)	DI-N-BUTYLPHTHALATE TOTAL (UG/L) (39110)	3,3'-DICHLOROBENZIDINE TOTAL (UG/L) (34631)	DIETHYLPHTHALATE TOTAL (UG/L) (34336)	DIMETHYLPHTHALATE TOTAL (UG/L) (34341)
03-07-94	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
03-25-94	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
09-13-94	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0

DATE	2,4-DINITROTOLUENE TOTAL (UG/L) (34611)	2,6-DINITROTOLUENE TOTAL (UG/L) (34626)	DI-N-OCTYLPHTHALATE TOTAL (UG/L) (34596)	BIS(2-ETHYL HEXYL) PHTHALATE TOTAL (UG/L) (39100)	FLUORENE TOTAL (UG/L) (34381)	FLUORANTHENE TOTAL (UG/L) (34376)	HEXACHLOROBENZENE TOTAL (UG/L) (39700)	HEXACHLOROCYCLOPENTADIENE TOTAL (UG/L) (34386)	HEXACHLOROETHANE TOTAL (UG/L) (34396)
03-07-94	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-25-94	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
09-13-94	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

DATE	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISOPHORONE TOTAL (UG/L) (34408)	NITROBENZENE TOTAL (UG/L) (34447)	N-NITROSODIMETHYLAMINE TOTAL (UG/L) (34438)	N-NITROSODIPHENYLAMINE TOTAL (UG/L) (34433)	N-NITROSODI-N-PROPYLAMINE TOTAL (UG/L) (34428)	PHENANTHRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	1,2-DIPHENYLHYDRAZINE WATER TOT.REC (UG/L) (82626)
03-07-94	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
03-25-94	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
09-13-94	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

PESTICIDES ANALYSES

[UG/L, micrograms per liter; <, actual value is known to be less than value shown; PCB, polychlorinated biphenyl; DDE, dichlorodiphenylethylene; DDD, dichlorodiphenyldichloroethane; DDT, dichlorodiphenyltrichloroethane]

DATE	TIME	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	ALDRIN, TOTAL (UG/L) (39330)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)
03-07-94	1826	<0.03	<0.03	0.060	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
03-25-94	1722	<0.03	<0.03	0.040	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
09-13-94	1638	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10

DATE	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	DI-ELDRIN TOTAL (UG/L) (39380)	P,P' DDE, TOTAL (UG/L) (39320)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ENDO-SULFAN BETA TOTAL (UG/L) (34356)	P,P' DDD, TOTAL (UG/L) (39310)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	P,P' DDT, TOTAL (UG/L) (39300)
03-07-94	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
03-25-94	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
09-13-94	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10

DATE	CHLOR-DANE, TOTAL (UG/L) (39350)	TOXA-PHENE, TOTAL (UG/L) (39400)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)
03-07-94	0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
03-25-94	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
09-13-94	0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS

[US/CM, microsiemens per centimeter]

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
MAR 1994		
07...	1800	152
07...	1803	134
07...	1805	115
07...	1808	92
07...	1810	86
07...	1812	85
07...	1814	81
07...	1816	78
07...	1818	76
07...	1820	73
07...	1822	71
07...	1827	66
07...	1831	63
07...	1835	60
07...	1839	58
07...	1843	57
07...	1847	60
07...	1851	62
07...	1855	65
07...	1900	64
07...	1908	74
07...	1919	81
SEP 1994		
13...	1522	130
13...	1524	70
13...	1526	66
13...	1528	65
13...	1530	66
13...	1531	66
13...	1533	68
13...	1535	63
13...	1537	67
13...	1539	70
13...	1541	69
13...	1543	68
SEP 1994		
13...	1545	67
13...	1547	66
13...	1549	64
13...	1552	63
13...	1555	65
13...	1600	67
13...	1607	71
13...	1631	88
13...	1634	53
13...	1636	48
13...	1637	47
13...	1639	48
OCT 1994		
15...	0807	133
15...	0809	125
15...	0811	120
15...	0813	121
15...	0815	119
15...	0818	134
15...	0820	130
15...	0822	126
15...	0825	128
15...	0828	135
15...	0831	126
15...	0834	116
DEC 1994		
29...	1937	342
29...	1939	187
29...	1941	145
29...	1943	120
29...	1945	122
29...	1952	120
29...	1958	116
29...	2004	101
29...	2012	106
29...	2024	116

SPECIFIC-CONDUCTIVITY DATA FOR SELECTED STORMS - Continued

DATE	TIME	SPECIFIC CONDUCTANCE (US/CM) (00095)
JAN 1995		
04...	1728	108
04...	1731	93
04...	1733	79
04...	1735	73
04...	1737	71
04...	1745	62
04...	1753	56
04...	1801	56
04...	1810	52
04...	1820	56
04...	1833	56
04...	1900	62
04...	2037	64
04...	2051	65
04...	2105	61
04...	2122	59
04...	2134	54
04...	2143	49
04...	2152	48
04...	2201	49
04...	2209	43
04...	2217	45
04...	2226	46
04...	2236	50
AUG 1995		
11...	2228	525
11...	2229	394
11...	2230	319
11...	2231	286
11...	2232	259
11...	2234	224
AUG 1995		
11...	2236	201
11...	2238	205
11...	2240	208
11...	2242	205
11...	2244	185
11...	2245	192
11...	2246	208
11...	2247	201
11...	2248	199
11...	2250	191
11...	2251	184
11...	2253	179
11...	2255	174
11...	2257	176
11...	2259	172
11...	2301	167
11...	2303	155
11...	2305	149
AUG 1995		
19...	2008	264
19...	2009	222
19...	2010	200
19...	2011	190
19...	2016	202
19...	2021	168
19...	2026	160
19...	2032	146
19...	2040	119
19...	2128	85
19...	2134	79
19...	2141	80
19...	2151	80

TOXICITY ANALYSES

[EC20, effective concentration for 20-percent reduction in biological activity; N/T, nontoxic; STIM, stimulatory effect; dashes indicate no data]

DATE	TIME	EC20, WHOLE WATER AT 5 MINUTES (percent)	EC20, WHOLE WATER, AT 15 MINUTES (percent)	EC20, FILTERED WATER, AT 5 MINUTES (percent)	EC20, FILTERED WATER, AT 15 MINUTES (percent)
03-25-94	1722	N/T	N/T	N/T	N/T
09-13-94	1638	56.2	44.9	65.9	75.4
10-15-94	0822	24.6	32.3	21.9	23.3
12-29-94	1949	42.7	STIM	STIM	STIM
01-04-95	2208	STIM	STIM	STIM	STIM
08-11-95	2249	12.4	15.6	21.1	24.8
08-19-95	2019	20.9	21.8	25.1	24.7

SALT RIVER MONITORING SITES

SITE IDENTIFICATION	SITE NAME	LATITUDE (DEGREES)	LONGITUDE (DEGREES)	HYDROLOGIC UNIT (OWDC)
09512060	Salt River at Alma School Road, near Mesa	33°27'11"	111°51'25"	15060106
09512165	Salt River at Priest Drive, near Phoenix	33°26'01"	111°57'37"	15060106
09512190	Salt River at 24th Street, at Phoenix	33°24'56"	112°01'45"	15060106
332427112100601	Salt River at 51st Avenue bridge, at Phoenix	33°24'27"	112°10'06"	15060106

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSIS

[US/CM, microsiemens per centimeter; MM, millimeters; MG/L, milligrams per liter; E, estimated value; <, actual value is known to be less than value shown; WH, whole; IT, incremental titration; DIS, dissolved; TOT, total; MF, membrane filter. Dashes indicate no data]

STATION NUMBER	DATE	TIME	GAGE HEIGHT (FEET) (00065)	DISCHARGE, INST. (CUBIC FEET PER SECOND) (00061)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL) (MG/L) (00340)	OXYGEN DEMAND, BIOCHEMICAL, 5 DAY (MG/L) (00310)
09512060	01-07-95	1100	--	E730	694	8.1	14.0	725	12.7	15	--
	01-30-95	0945	--	E110	556	8.2	15.0	727	7.4	<10	--
	02-16-95	1245	--	E22000	400	8.3	14.0	728	9.9	35	--
09512165	12-31-92	0005	--	10	880	8.9	13.0	--	--	25	--
	01-04-93	1630	6.92	8600	607	7.9	13.0	720	10.2	17	7.0
	01-12-93	1910	10.25	47800	500	8.2	12.0	730	8.1	39	<5.0
	02-11-93	0900	7.82	25500	309	8.0	11.0	725	8.7	13	<5.0
	01-06-95	1630	3.50	1430	338	7.8	16.0	729	11.8	53	--
	01-12-95	1545	2.57	60	672	8.6	18.0	731	8.6	13	--
	02-15-95	1745	11.59	53100	593	8.4	14.5	730	8.4	61	--
09512190	08-24-92	1430	6.75	16500	406	7.3	--	732	5.6	33	10
	09-02-92	1055	2.22	1140	761	8.1	25.5	730	5.9	12	30
332427112100601	01-07-95	1415	--	E675	590	8.1	15.0	728	10.9	30	--
	01-30-95	1230	--	E140	852	8.2	17.0	725	7.2	10	--
	02-17-95	0900	--	E19500	381	8.3	12.0	728	10.2	38	--

STATION NUMBER	DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, 0.45 UM-MF (COLS. PER 100 ML) (31673)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER WH IT FIELD (MG/L AS HCO3) (00450)	BICARBONATE WATER DIS IT FIELD (MG/L AS HCO3) (00453)	CARBONATE WATER WH IT FIELD (MG/L AS CO3) (00447)	CARBONATE WATER DIS IT FIELD (MG/L AS CO3) (00452)
09512060	01-07-95	--	--	41	12	76	3.1	141	139	0	2
	01-30-95	--	--	36	17	44	2.9	178	177	0	0
	02-16-95	--	--	32	15	29	2.5	184	157	0	0
09512165	12-31-92	--	--	43	20	100	--	--	--	--	--
	01-04-93	--	540	37	12	63	3.0	150	130	0	0
	01-12-93	290	1300	29	8.3	54	2.8	128	109	0	0
	02-11-93	100	230	27	8.6	19	2.0	--	116	--	0
	01-06-95	--	--	26	8.1	36	2.5	109	98	0	0
	01-12-95	--	--	44	13	88	3.5	152	152	0	0
	02-15-95	--	--	44	25	37	4.8	287	243	8	0
09512190	08-24-92	3000	3400	32	11	29	2.8	179	--	0	--
	09-02-92	450	48	40	11	87	3.6	139	138	0	0
332427112100601	01-07-95	--	--	32	11	68	4.0	135	130	0	0
	01-30-95	--	--	46	22	93	5.7	224	223	0	0
	02-17-95	--	--	30	14	28	2.3	171	140	0	0

SALT RIVER MONITORING SITES - Continued

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

STATION NUMBER	DATE	ALKALINITY WAT WH TOT IT FIELD (MG/L AS CACO3) (00419)	ALKALINITY WAT DIS TOT IT FIELD (MG/L AS CACO3) (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	RESIDUE TOTAL AT 105 DEG. C, SUS-PENDED (MG/L) (00530)	NITROGEN, NITRATE TOTAL (MG/L AS N) (00620)
09512060	01-07-95	115	115	46	110	--	--	--	402	85	0.130
	01-30-95	146	145	42	52	--	--	--	319	28	0.130
	02-16-95	151	129	29	30	--	--	--	252	500	0.080
09512165	12-31-92	--	150	72	150	0.10	0.090	7.1	491	9	--
	01-04-93	123	107	38	92	--	--	16	347	47	0.140
	01-12-93	105	89	26	83	--	--	15	292	318	<0.170
	02-11-93	--	95	20	21	--	--	15	180	149	<0.180
	01-06-95	90	80	24	54	--	--	--	230	408	0.220
	01-12-95	125	125	52	130	--	--	--	440	7	0.140
	02-15-95	242	199	61	26	--	--	--	349	1140	0.110
09512190	08-24-92	147	--	--	--	--	--	17	225	720	0.130
	09-02-92	114	113	41	140	--	--	15	445	3	--
332427112100601	01-07-95	111	107	49	88	--	--	--	347	186	0.840
	01-30-95	184	182	80	110	--	--	--	513	23	1.45
	02-17-95	140	115	26	30	--	--	--	233	472	--

STATION NUMBER	DATE	NITROGEN, NITRITE TOTAL (MG/L AS N) (00615)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DIS-SOLVED (MG/L AS P) (00666)
09512060	01-07-95	0.010	--	0.140	--	0.020	--	0.35	0.140	0.020
	01-30-95	<0.010	--	0.130	--	0.020	--	<0.20	0.070	<0.020
	02-16-95	0.010	--	0.090	--	0.060	--	0.81	0.520	0.040
09512165	12-31-92	--	--	--	--	--	--	--	--	--
	01-04-93	--	<0.010	0.140	0.140	--	0.020	0.30	0.090	0.030
	01-12-93	<0.050	0.040	0.210	0.210	0.390	0.030	0.60	0.430	0.060
	02-11-93	<0.050	0.080	0.260	0.260	<0.100	0.030	0.30	0.200	0.060
	01-06-95	0.020	--	0.240	--	0.040	--	1.4	0.910	0.090
	01-12-95	0.010	--	0.150	--	0.030	--	0.22	<0.020	0.020
	02-15-95	0.010	--	0.120	--	0.050	--	1.7	1.90	0.020
09512190	08-24-92	0.020	--	0.150	--	0.030	--	0.30	0.080	--
	09-02-92	<0.010	--	<0.050	--	0.030	--	<0.20	0.030	0.010
332427112100601	01-07-95	0.030	--	0.870	--	0.090	--	0.94	0.550	--
	01-30-95	0.050	--	1.50	--	0.100	--	0.47	0.470	0.410
	02-17-95	0.010	--	<0.020	--	<0.010	--	0.81	0.370	0.030

SALT RIVER MONITORING SITES - Continued

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

STATION NUMBER	DATE	PHOS-PHORUS ORTHO TOTAL (MG/L AS P) (70507)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CYANIDE TOTAL (MG/L AS CN) (00720)	PHENOLS TOTAL (UG/L) (32730)	OIL AND GREASE, TOTAL RECOV. GRAVI-METRIC (MG/L) (00556)	ANTI-MONY TOTAL (UG/L AS SB) (99897)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)
09512060	01-07-95	0.060	5.2	<0.010	<1	<1	--	5	--	<10
	01-30-95	0.080	4.2	<0.010	<1	<1	--	8	--	<10
	02-16-95	0.080	12	<0.010	<1	<1	--	18	--	<10
09512165	12-31-92	--	7.3	--	--	<1	--	7	50	<10
	01-04-93	--	4.8	<0.010	<1	<1	<10.0	8	40	<10
	01-12-93	--	13	<0.010	1	<1	<10.0	9	27	<10
	02-11-93	--	6.7	<0.010	1	<1	<10.0	8	24	<10
	01-06-95	0.150	17	<0.010	3	<1	--	10	--	<10
	01-12-95	0.020	4.9	<0.010	<1	<1	--	4	--	<10
	02-15-95	0.050	19	<0.010	3	9	--	31	--	<10
09512190	08-24-92	--	9.5	<0.010	2	<1	<10.0	13	--	<10
	09-02-92	--	4.9	<0.010	<1	<1	<10.0	1	44	<10
332427112100601	01-07-95	0.230	9.6	<0.010	<1	<1	--	10	--	<10
	01-30-95	0.420	4.3	<0.010	<1	<1	--	10	--	<10
	02-17-95	0.050	8.9	<0.010	<1	<1	--	17	--	<10

STATION NUMBER	DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
09512060	01-07-95	--	<1	--	2	--	--	4	--	--
	01-30-95	--	<1	--	2	--	--	2	--	--
	02-16-95	--	<1	--	13	--	--	47	--	--
09512165	12-31-92	<0.5	<1	<1.0	8	<5	<3	3	<10	<3
	01-04-93	<0.5	<1	<1.0	8	<5	<3	6	<10	9
	01-12-93	<0.5	<1	<1.0	15	<5	<3	25	<10	58
	02-11-93	<0.5	<1	<1.0	6	<5	<3	13	<10	70
	01-06-95	--	<1	--	11	--	--	27	--	--
	01-12-95	--	<1	--	<1	--	--	2	--	--
	02-15-95	--	<1	--	21	--	--	58	--	--
09512190	08-24-92	--	<1	--	25	--	--	300	--	--
	09-02-92	<0.5	<1	<1.0	1	<5	<3	2	<10	4
332427112100601	01-07-95	--	<1	--	6	--	--	15	--	--
	01-30-95	--	<1	--	2	--	--	3	--	--
	02-17-95	--	<1	--	12	--	--	23	--	--

SALT RIVER MONITORING SITES - Continued

PHYSICAL, CHEMICAL, AND BIOLOGICAL ANALYSES — Continued

STATION NUMBER	DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
09512060	01-07-95	2	--	--	--	<0.10	--	5	--	<1
	01-30-95	2	--	--	--	<0.10	--	3	--	<1
	02-16-95	22	--	--	--	<0.10	--	33	--	<1
09512165	12-31-92	<1	<10	61	1	<0.10	10	2	<10	<2
	01-04-93	3	<10	42	2	<0.10	<10	4	<10	<2
	01-12-93	22	<10	35	2	<0.10	<10	21	<10	<2
	02-11-93	7	<10	13	4	<0.10	<10	10	<10	<2
	01-06-95	20	--	--	--	0.40	--	24	--	<1
	01-12-95	<1	--	--	--	<0.10	--	<1	--	<1
	02-15-95	27	--	--	--	0.20	--	68	--	<1
09512190	08-24-92	27	--	--	--	<0.10	--	49	--	<2
	09-02-92	<1	<10	55	<1	<0.10	<10	2	<10	<2
332427112100601	01-07-95	9	--	--	--	0.10	--	13	--	<1
	01-30-95	2	--	--	--	<0.10	--	4	--	<1
	02-17-95	11	--	--	--	<0.10	--	24	--	<1

STATION NUMBER	DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, TOTAL (UG/L AS AG) (99895)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	THAL-LIUM, TOTAL (UG/L AS TL) (01059)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CYANIDE TOTAL (MG/L AS CN) (99896)
09512060	01-07-95	<1	--	--	--	--	--	10	--	--
	01-30-95	<1	--	--	--	--	--	<10	--	--
	02-16-95	<1	--	--	--	--	--	60	--	--
09512165	12-31-92	<1	--	2.0	600	--	7	<10	<3	--
	01-04-93	<1	<0.500	<1.0	370	<25	<6	<10	<3	<0.010
	01-12-93	<1	<0.500	<1.0	230	<20	<6	50	<3	<0.010
	02-11-93	<1	<0.500	<1.0	220	<10	<6	<10	<3	<0.010
	01-06-95	<1	--	--	--	--	--	50	--	--
	01-12-95	<1	--	--	--	--	--	<10	--	--
	02-15-95	<1	--	--	--	--	--	110	--	--
09512190	08-24-92	<1	2.50	--	--	<20	--	120	--	<0.010
	09-02-92	<1	<0.500	<1.0	310	<10	<6	<10	<3	0.012
332427112100601	01-07-95	<1	--	--	--	--	--	30	--	--
	01-30-95	<1	--	--	--	--	--	10	--	--
	02-17-95	<1	--	--	--	--	--	50	--	--

SALT RIVER MONITORING SITES - Continued

ORGANICS ANALYSES

[UG/L, micrograms per liter; REC, recoverable; UNF, unfiltered; WH, whole; WAT, water; <, actual value is known to be less than value shown]

STATION NUMBER	DATE	TIME	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34566)	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC (UG/L) (34571)	BENZENE O-CHLORO-WATER UNFLTRD REC (UG/L) (34536)	BENZENE 1,2,4-TRI-CHLORO-WAT UNF REC (UG/L) (34551)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)	NAPHTH-ALENE TOTAL (UG/L) (34696)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)
09512165	01-04-93	1630	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0
	01-12-93	1910	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0
	02-11-93	0900	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0
09512190	09-02-92	1055	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<30.0	<5.0	<5.0

STATION NUMBER	DATE	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	4,6-DINITRO-ORTHO-CRESOL TOTAL (UG/L) (34657)	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)
09512165	01-04-93	<20.0	<5.0	<30.0	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0
	01-12-93	<20.0	<5.0	<30.0	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0
	02-11-93	<20.0	<5.0	<30.0	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0
09512190	09-02-92	<20.0	<5.0	<30.0	<20.0	<5.0	<30.0	<30.0	<5.0	<5.0	<5.0

STATION NUMBER	DATE	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZI-DINE TOTAL (UG/L) (39120)	BENZO A ANTHRA-CENE 1,2-BENZANT HRACENE TOTAL (UG/L) (34526)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)	BENZOGH I PERYL-ENE 1,12-BENZO-PERYLENE TOTAL (UG/L) (34521)	N-BUTYL BENZYL-PHTHAL-ATE TOTAL (UG/L) (34292)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)
09512165	01-04-93	<5.0	<40.0	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0
	01-12-93	<5.0	<40.0	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0
	02-11-93	<5.0	<40.0	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0
09512190	09-02-92	<5.0	<40.0	<10.0	<10.0	<10.0	<10.0	<10.0	<5.0	<5.0	<5.0

STATION NUMBER	DATE	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/L) (34641)	CHRY-SENE TOTAL (UG/L) (34320)	1,2,5,6-DIBENZ-ANTHRA-CENE TOTAL (UG/L) (34556)	DI-N-BUTYL-PHTHAL-ATE TOTAL (UG/L) (39110)	3,3'-DI-CHLORO-BENZI-DINE TOTAL (UG/L) (34631)	DIETHYL-PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL-PHTHAL-ATE TOTAL (UG/L) (34341)
09512165	01-04-93	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
	01-12-93	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
	02-11-93	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0
09512190	09-02-92	<5.0	<5.0	<5.0	<5.0	<10.0	<10.0	<5.0	<20.0	<5.0	<5.0

STATION NUMBER	DATE	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	DI-N-OCTYL-PHTHAL-ATE TOTAL (UG/L) (34596)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	FLUOR-ENE TOTAL (UG/L) (34381)	FLUOR-ANTHENE TOTAL (UG/L) (34376)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)
09512165	01-04-93	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	01-12-93	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	02-11-93	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
09512190	09-02-92	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

SALT RIVER MONITORING SITES - Continued

ORGANICS ANALYSES - Continued

STATION NUMBER	DATE	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	NITRO-BENZENE TOTAL (UG/L) (34447)	N-NITRO-SODI-METHY-LAMINE TOTAL (UG/L) (34438)	N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) (34433)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	1,2-DI-PHENYL-HYDRA-ZINE WATER TOT.REC (UG/L) (82626)
09512165	01-04-93	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	01-12-93	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
	02-11-93	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
09512190	09-02-92	<10.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

PESTICIDES ANALYSES

[UG/L, micrograms per liter; <,actual value is known to be less than value shown; PCB, polychlorinated biphenyl; DDE, dichlorodiphenylethylene; DDD, dichlorodiphenyldichloroethane; DDT, dichlorodiphenyltrichloroethane]

STATION NUMBER	DATE	TIME	ALPHA BHC TOTAL (UG/L) (39337)	BETA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (39338)	LINDANE TOTAL (UG/L) (39340)	DELTA BENZENE HEXA-CHLOR-IDE TOTAL (UG/L) (34259)	HEPTA-CHLOR, TOTAL (UG/L) (39410)	ALDRIN, TOTAL (UG/L) (39330)	HEPTA-CHLOR EPOXIDE TOTAL (UG/L) (39420)	CHLOR-DANE TRANS WATER WHOLE TOTAL (UG/L) (39065)	ENDO-SULFAN-I WATER WHOLE REC (UG/L) (34361)
09512165	01-04-93	1630	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
	01-12-93	1910	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
	02-11-93	0900	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
09512190	08-24-92	1430	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10
	09-02-92	1055	<0.03	<0.03	<0.030	<0.09	<0.030	<0.040	<0.80	<0.10	<0.10

STATION NUMBER	DATE	CHLOR-DANE CIS WATER WHOLE TOTAL (UG/L) (39062)	DI-ELDRIN TOTAL (UG/L) (39380)	P,P' DDE, TOTAL (UG/L) (39320)	ENDRIN WATER UNFLTRD REC (UG/L) (39390)	ENDO-SULFAN BETA TOTAL (UG/L) (34356)	P,P' DDD, TOTAL (UG/L) (39310)	ENDRIN ALDE-HYDE TOTAL (UG/L) (34366)	ENDO-SULFAN SULFATE TOTAL (UG/L) (34351)	P,P' DDT, TOTAL (UG/L) (39300)
09512165	01-04-93	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
	01-12-93	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
	02-11-93	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
09512190	08-24-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10
	09-02-92	<0.10	<0.020	<0.04	<0.060	<0.04	<0.10	<0.20	<0.60	<0.10

STATION NUMBER	DATE	CHLOR-DANE, TOTAL (UG/L) (39350)	TOX-APHENE, TOTAL (UG/L) (39400)	AROCLOR 1221 PCB TOTAL (UG/L) (39488)	AROCLOR 1232 PCB TOTAL (UG/L) (39492)	AROCLOR 1016 PCB TOTAL (UG/L) (34671)	AROCLOR 1242 PCB TOTAL (UG/L) (39496)	AROCLOR 1248 PCB TOTAL (UG/L) (39500)	AROCLOR 1254 PCB TOTAL (UG/L) (39504)	AROCLOR 1260 PCB TOTAL (UG/L) (39508)
09512165	01-04-93	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	01-12-93	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	02-11-93	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
09512190	08-24-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	09-02-92	<0.1	<2	<1.0	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1