

GROUND-WATER QUALITY DATA FOR OKLAHOMA--1982-84

By Dale M. Ferree

U.S. GEOLOGICAL SURVEY

Open-File Report 85-417

**Prepared in cooperation with
the OKLAHOMA WATER RESOURCES BOARD,
the OKLAHOMA GEOLOGICAL SURVEY, and
the U.S. BUREAU OF LAND MANAGEMENT**



**Oklahoma City, Oklahoma
1985**

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CONTENTS

	Page
Introduction.....	1
Cooperation.....	1
Explanation of information in the tables.....	1
Local identifier.....	2
Station number.....	2
Site distribution.....	3
Geological unit.....	3
Definition of terms.....	4
Water quality records.....	6
Blaine County.....	6
Canadian County.....	6
Cimarron County.....	7
Coal County.....	7
Comanche County.....	8
Craig County.....	9
Custer County.....	12
Delaware County.....	13
Harmon County.....	16
Haskell County.....	17
Hughes County.....	22
Jackson County.....	22
Jefferson County.....	22
Kiowa County.....	23
Lincoln County.....	23
McIntosh County.....	23
Okfuskee County.....	23
Oklahoma County.....	24
Okmulgee County.....	27
Ottawa County.....	28
Pottawatomie County.....	36
Seminole County.....	38
Sequoyah County.....	39
Stephens County.....	39
Woodward County.....	39

ILLUSTRATIONS

	Page
Figure 1.--Diagram showing example of the township and range numbering system.....	2
2.--Diagram showing examples of the station numbering system.....	2
3.--Map showing counties included in report.....	3

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INTRODUCTION

The U.S. Geological Survey has collected data on Oklahoma's ground-water resources since 1934. Most of these data were collected as part of specific ground-water studies conducted in cooperation with various Federal, State, and local agencies. Ground-water quality data, as well as data on construction, yield, water levels, and other physical well parameters collected prior to 1982 are available from the U.S. Geological Survey, Room 621, 215 Dean A. McGee Avenue, Oklahoma City, Oklahoma, 73102.

Although water-quality data for wells, test holes, and springs have been published, they are scattered through a variety of reports and are not readily available on a statewide basis. The purpose of this report is to make available all of the ground-water quality data collected by the U.S. Geological Survey in the State of Oklahoma. This report contains 412 ground-water quality analyses since 1982 from 341 sites in 25 counties.

COOPERATION

Data presented in this report were collected in cooperation with the Oklahoma Water Resources Board, the Oklahoma Geological Survey, and the U.S. Bureau of Land Management.

EXPLANATION OF INFORMATION IN THE TABLES

Data in this report are arranged alphabetically by county. Within each county, the data are ordered by ascending well location numbers. Multiple entries for a single site are ordered by date of collection.

Local Identifier

The standard method of giving location by fractional section, section, township, and range is replaced by the method illustrated in figure 1 below. The location of the well indicated by the dot normally would be described as NE 1/4 SW 1/4 NW 1/4 Sec.6, T.24 N., R.13 E. The method used in this report reverses the order and indicates quarter subdivisions of the section by letters. By this method, the location of the well is given as 24N-13E-06 BCA 1. The final digit (1) is the sequence number of a well within the smallest fractional subdivision.

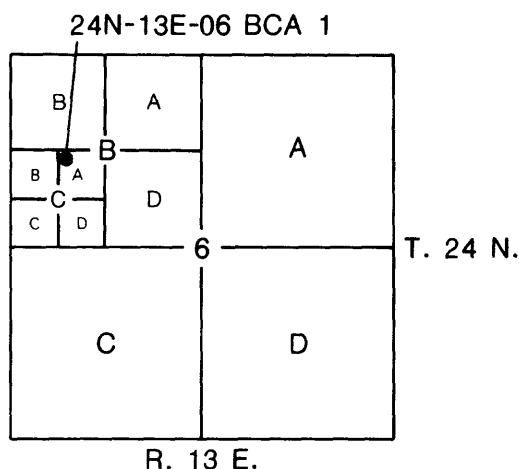


Figure 1.--Example of the township and range numbering system.

Station Number

The well-numbering system of the U.S. Geological Survey is based on latitude and longitude. The system provides the geographic location of the well and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 2 below.

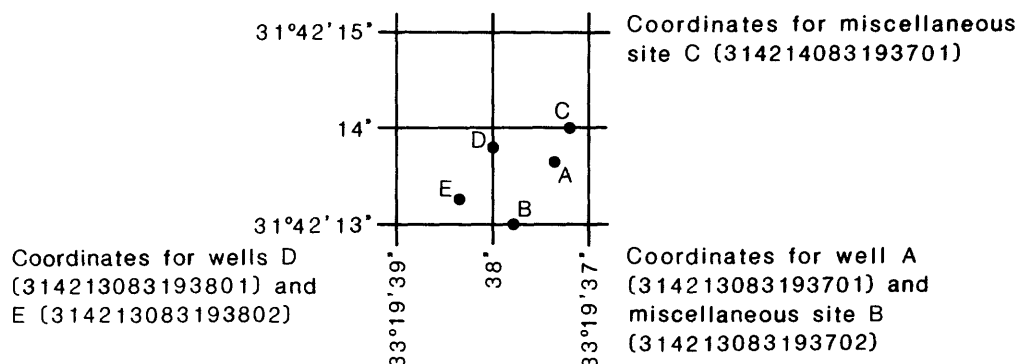


Figure 2.--Examples of the station numbering system.

Site Distribution

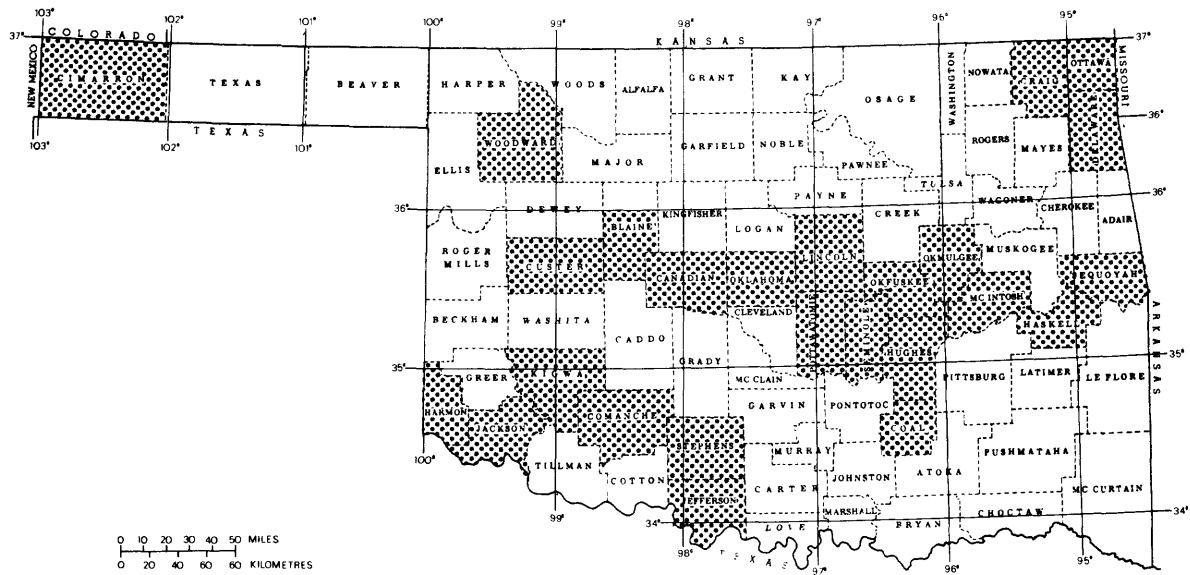


Figure 3.--Counties included in report.

Geologic Unit

The geologic information, group of formations, or part of a formation that contains sufficient saturated permeable material to yield quantities of water to wells and springs is the geologic unit. The abbreviations for geologic units used in this report are listed below:

MIDDLE PENNSYLVANIA

325HRSR Hartshorne Shale
325MCAL McAlester Shale

UPPER MISSISSIPPIAN

331B00N Boone Formation

LOWER ORDOVICIAN

367RBDX Roubidoux Formation

DEFINITION OF TERMS

Terms related to water-quality and other hydrologic data, as used in this report, are defined below:

Acidity--of a water is its quantitative capacity to neutralize a strong base to a designated pH.

Alkalinity--of a water is its quantitative capacity to neutralize a strong acid to a designated pH.

Color unit--is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Dissolved--refers to that material in a representative water sample which passes through a 0.45 μ m membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made on subsamples of the filtrate.

Fixed-pH endpoint titration-field (FET-FLD)--is a procedure for the determination of hydroxide, carbonate, and bicarbonate ions. Titrations with a standard acid to fixed endpoints at a pH of 10.4, 8.3, and 4.5 were made in the field for the determinations. The concentrations of the ions are equated to the volume of a standard acid added to the sample.

Gross Alpha--"Gross alpha particle activity" is the total radioactivity due to alpha particle emission as inferred from measurements on a dry sample.

Gross Beta--"Gross beta particle activity" is the total radioactivity due to beta particle emission as inferred from measurements on a dry sample.

Hardness--of water is a chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3) in milligrams per liter.

Incremental titration-field (IT-FLD)--is a method for measuring hydroxide, carbonate, and bicarbonate by titrating in increments of a standard acid small enough to accurately distinguish the inflection points of pH versus acid-volume curve, which are stoichiometric endpoints. The titration is done in the field.

Micrograms per liter ($\mu\text{g/L}$)--is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of solution. One thousand micrograms per liter is equivalent to one milligram per liter.

DEFINITION OF TERMS--Continued

Milligrams per liter (mg/L)--is a unit expressing the concentration of chemical constituents in solution as mass (milligrams) of solute per unit volume (liter) of solution. Concentration of suspended sediment also is expressed in milligrams per liter, and is based on the mass of sediment per liter of water-sediment mixture.

Picocurie (pCi)--is one trillionth (1×10^{-12}) of the amount of radio-activity that yields 3.7×10^{10} radioactive disintegrations per second. A picocurie yields 2.22 disintegrations per minute (dmp).

pH--is a number describing the acidity or alkalinity of an aqueous solution. The pH of a neutral solution is 7.0 at 25.0 °C. Solutions with a pH less than 7.0 are acidic. Solutions with a pH greater than 7.0 are alkaline. The pH is the negative logarithm of the hydrogen ion activity (or approximately the hydrogen ion concentration in moles per liter).

Sodium Adsorption Ratio (SAR)--is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio is used to evaluate the suitability of water used for irrigating farmland.

Solids, Residue at 180 °C--is the weight per unit volume (milligrams per liter) of the dissolved substances in the water after evaporation and then drying for two hours at 180 °C.

Solute--is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance--is a measure of the ability of water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the "total" dissolved-solids concentrations of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in microsiemens). This relation is not constant, and may vary with changes in the composition of the water.

Suspended, total--is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 µm membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total."

Turbidity--is the optical property of a suspension with reference to the extent to which the penetration of light is inhibited by the presence of insoluble material. It is a function of both the concentration and particle size of the suspended material. Turbidity is reported in nephelometric turbidity units.

BLAINE COUNTY

LOCAL IDENTI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
13N-11W-05 CAD 1	353742098233501	--	--	84-03-07	--	550	7.9	5.0
13N-11W-05 CCA 1	353736098235101	--	--	84-03-07	--	420	7.9	7.0
13N-12W-02 CAB 1	353749098265401	--	--	84-03-07	--	690	8.0	12.0
14N-12W-13 DBB 1	354118098253501	--	--	84-03-07	--	490	6.9	16.5
15N-10W-06 AAD 1	354835098174301	--	--	84-03-07	--	1300	8.0	11.0
15N-10W-08 DCD 1	354704098165501	--	--	84-03-06	--	645	7.4	12.0
15N-10W-32 DCC 1	354335098170301	--	--	84-03-01	--	650	7.2	15.5
15N-13W-07 BAA 1	354749098372501	--	--	84-03-06	--	520	8.1	13.0
15N-13W-07 BDC 1	354730098373301	--	--	84-03-06	--	430	7.1	15.0
17N-12W-23 DAA 1	355559098262701	--	--	84-03-01	--	2450	7.5	16.5
17N-12W-23 DAB 1	355559098263501	--	--	84-03-01	--	2700	7.2	16.5
17N-12W-23 DAC 1	355553098263501	--	--	84-03-01	--	2850	7.2	15.5
17N-12W-24 CAD 1	355553098255501	--	--	84-03-01	--	3700	7.0	16.5
19N-10W-08 CAC 1	360803098173001	--	--	84-04-18	--	1500	8.2	17.0
19N-10W-08 CDA 1	360756098172201	--	--	84-04-18	--	2010	8.4	18.0

CANADIAN COUNTY

11N-04W-09 BCC 1	352634097380801	--	1000	82-05-25	--	604	8.3	20.5
11N-05W-02 DDC 1	352702097413301	--	--	82-05-25	--	731	7.3	18.0
12N-05W-25 CCD 1	352844097410601	--	62.00	82-05-27	--	1050	7.4	16.5
12N-05W-27 BBC 1	352923097432501	--	11.79	82-05-28	--	1210	7.1	19.0
12N-05W-27 DAD 1	352902097422701	--	27.69	82-05-27	--	1590	6.9	19.0
12N-05W-36 AAA 1	352840097401901	--	--	82-05-27	--	1160	7.3	19.0
12N-05W-36 DAA 1	352815097401901	--	43.00	82-05-27	--	1140	7.2	19.0

CIMARRON COUNTY

LOCAL IDENTIFIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CONDUCTANCE (µS/cm)	pH (STANDARD ARD UNITS)	TEMPERATURE (DEG C)	SODIUM, DIS-SOLVED (mg/L as Na)
16N-22E-03 CCB 1	355319094574001	331B00N	1490	82-12-28	1330	500	6.1	13.5	5.2

DATE OF SAMPLE	SULFATE DIS-SOLVED (mg/L as SO ₄)	CHLO-RIDE, DIS-SOLVED (mg/L as Cl)	FLUO-RIDE, DIS-SOLVED (mg/L as F)	SOLIDS, RESIDUE AT 180 DEG. C	ALUM-INUM, DIS-SOLVED (µg/L as Al)	CADMIUM DIS-SOLVED (µg/L as Cd)	CHROMIUM, DIS-SOLVED (µg/L as Cr)	COPPER, DIS-SOLVED (µg/L as Cu)	IRON, DIS-SOLVED (µg/L as Fe)	LEAD, DIS-SOLVED (µg/L as Pb)	MANGANESE, DIS-SOLVED (µg/L as Mn)	ZINC, DIS-SOLVED (µg/L as Zn)
82-12-28	10	5.8	.10	286	<100	8	<10	<12	130	<5	40	550

COAL COUNTY

LOCAL IDENTIFIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CONDUCTANCE (µS/cm)	pH (STANDARD ARD UNITS)	TEMPERATURE (DEG C)
01S-10E-15 BDD 1	342812096144601	325MCAL	--	82-01-28	1445	530	7.5	16.0
01S-10E-17 CAD 1	342803096164101	325HRSR	--	82-01-28	0730	460	7.6	17.0
01S-10E-17 CDB 1	342755096164801	325HRSR	--	82-01-28	1535	780	4.3	12.0
01S-10E-20 ABB 1	342743096163701	325MCAL	--	82-01-28	1525	195	6.6	17.0
01S-10E-20 DCC 1	342655096163101	325HRSR	--	82-01-28	1610	380	7.2	15.0
01S-10E-21 ACB 1	342726096153201	325MCAL	--	82-01-28	0950	520	8.7	18.0
01S-10E-21 CCC 1	342655096160301	325MCAL	--	82-01-28	1110	615	8.9	18.0

COAL COUNTY--Continued

LOCAL IDENTI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
01S-10E-21 DBB 1	342714096153001	325HRSR	--	82-01-28	0930	455	8.3	18.0
01S-10E-21 DBC 1	342706096152701	325HRSR	--	82-01-28	0915	265	7.7	18.0
01S-10E-21 DCA 1	342703096152401	325MCAL	--	82-01-28	0900	350	7.5	19.0
01S-10E-21 DCD 1	342652096152001	325HRSR	--	82-01-28	0830	600	8.1	19.0
01S-10E-21 DCD 2	342658096151401	325HRSR	--	82-01-28	0850	1460	8.5	18.0
01S-10E-22 DDD 1	342653096135901	325MCAL	--	82-01-28	1650	544	7.8	15.0
01S-10E-23 CCC 1	342652096135501	325MCAL	--	82-01-28	1705	510	8.3	13.5
COMANCHE COUNTY								
02N-12W-16 ABC 1	343859098275201	--	--	84-07-12	--	531	7.0	18.5
03N-12W-19 DBA 1	344301098295001	--	--	84-07-12	--	275	6.2	18.5
04N-12W-13 CBC 1	344900098251401	--	--	84-07-11	--	578	7.0	18.0
04N-12W-25 DCC 1	344703098244301	--	--	84-07-11	--	593	7.0	17.0
04N-12W-36 BBB 1	344656098251401	--	--	84-07-11	--	486	6.9	18.5
04N-13W-02 CBC 1	345045098323601	--	--	84-07-23	--	689	7.0	17.0
04N-13W-11 BAA 1	345025098321201	--	--	84-07-16	--	623	7.5	18.5
04N-13W-17 DAC 1	344900098345801	--	--	84-07-19	--	478	7.1	17.0
04N-14W-04 DBA 1	345051098402201	--	--	84-07-10	--	751	7.1	17.0
04N-14W-13 BCA 1	344920098374401	--	--	84-07-10	--	525	7.0	18.0
04N-15W-12 AAA 1	345025098431501	--	--	84-07-10	--	439	7.6	17.0
04N-15W-15 AAC 1	344927098452901	--	--	84-07-20	--	478	8.0	18.0
04N-15W-17 BAD 1	344927098475901	--	--	84-07-24	--	602	7.2	18.0

CRAIG COUNTY

LOCAL IDENTIFI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE ($\mu\text{S}/\text{cm}$)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	SULFATE DIS- SOLVED (mg/L as SO_4)
24N-21E-11 BDB 1	363439095020901	367RBDX	1940	83-03-23	1330	140	7.2	17.0	3.0
		367RBDX	1940	83-03-23	1345	1120	7.8	18.0	10
		367RBDX	1940	83-03-23	1450	125000	6.3	18.0	690
27N-21E-20 DCD 1	364808095043501	367RBDX	1080	82-01-25	1130	838	8.0	21.5	--
		367RBDX	1080	82-04-19	1200	871	7.9	21.5	--
		367RBDX	1080	82-07-19	1400	878	7.9	24.5	--
		367RBDX	1080	82-10-19	1409	943	7.9	22.5	--
27N-21E-12 CCB 1	365000095010101	367RBDX	1350	82-01-26	1215	600	8.0	25.5	--
		367RBDX	1350	82-04-20	0830	644	7.9	20.5	--
		367RBDX	1350	82-07-21	0900	634	8.0	24.5	--
		367RBDX	1350	82-10-20	1330	618	8.0	20.5	--
27N-20E-12 BDD 1	365016095070501	367RBDX	1090	82-01-25	1230	1550	8.0	19.5	--
28N-21E-29 CBD 2	365240095051501	367RBDX	1250	82-06-15	1430	1990	6.9	21.5	--
		367RBDX	1250	82-07-20	1400	1820	7.8	25.5	--
		367RBDX	1250	82-10-21	1400	1730	7.8	23.0	--
28N-21E-29 CBC 1	365242095051701	367RBDX	--	82-01-25	1330	1820	7.9	21.0	--
		367RBDX	--	82-04-19	1400	1830	7.8	22.5	--
		367RBDX	--	82-06-15	1425	1850	7.7	24.5	--
		367RBDX	--	82-07-20	1400	1820	7.8	25.5	--
28N-20E-13 ACC 1	365440095065701	367RBDX	1500	83-03-23	1700	9120	9.3	16.5	100
		367RBDX	1500	83-03-23	1730	27000	7.9	16.5	20

CRAIG COUNTY--Continued

DATE OF SAMPLE	CHLO- RIDE, DIS- SOLVED (mg/L as Cl)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	ALUM- INUM, DIS- SOLVED (µg/L as Al)	CADMIUM DIS- SOLVED (µg/L as Cd)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr)	COPPER, DIS- SOLVED (µg/L as Cu)	IRON, DIS- SOLVED (µg/L as Fe)	LEAD, DIS- SOLVED (µg/L as Pb)	MANGA- NESE, DIS- SOLVED (µg/L as Mn)	ZINC, DIS- SOLVED (µg/L as Zn)	RADIUM, DIS- SOLVED, PLAN- CHET COUNT (pCi/L as ²²⁶ Ra)
83-03-23	2.7	.10	88	<100	<4	<10	<12	<10	<5	50	37	--
83-03-23	260	2.1	668	<100	<4	<10	<12	20	<5	30	<10	--
83-03-23	65000	.40	113000	440	13	<10	17	9800	--	2100	110	--
82-01-25	--	--	--	--	--	--	--	--	--	--	--	--
82-04-19	--	--	--	--	--	--	--	--	--	--	--	--
82-07-19	--	--	--	--	--	--	--	--	--	--	--	--
82-10-19	--	--	--	--	--	--	--	--	--	--	--	--
82-01-26	--	--	--	--	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-01-25	--	--	--	--	--	--	--	--	--	--	--	--
82-06-15	--	--	--	--	--	--	--	--	--	--	--	6.4
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
82-10-21	--	--	--	--	--	--	--	--	--	--	--	--
82-01-25	--	--	--	--	--	--	--	--	--	--	--	--
82-04-19	--	--	--	--	--	--	--	--	--	--	--	3.4
82-06-15	--	--	--	--	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
83-03-23	3100	.30	5300	<100	8	<10	<12	<10	<5	90	10	--
83-03-23	10000	.80	17800	<100	8	<10	<12	<10	--	2000	12	--

CRAIG COUNTY--Continued

DATE OF SAMPLE	RADIUM, DIS- SOLVED (pCi/L ²²⁸ Ra)
83-03-23	--
83-03-23	--
83-03-23	--
82-01-25	--
82-04-19	--
82-07-19	--
82-10-19	--
82-01-26	--
82-04-20	--
82-07-21	--
82-10-20	--
82-01-25	--
82-06-15	<3.0
82-07-20	--
82-10-21	--
82-01-25	--
82-04-19	--
82-06-15	<2.0
82-07-20	--
83-03-23	--
83-03-23	--

CUSTER COUNTY

LOCAL IDENTIFI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μS/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
13N-16W-28 BAC 1	353440098543601	--	--	84-07-05	--	1840	7.4	17.0
14N-16W-17 CAB 1	354118098554001	--	--	84-07-03	--	2800	7.5	19.0
15N-14W-01 BDD 1	354822098382901	--	--	84-03-06	--	560	8.0	10.0
15N-14W-01 CAB 1	354815098383701	--	--	84-03-06	--	500	7.3	15.0
15N-14W-11 ADD 1	354730098390101	--	--	84-03-06	--	540	8.2	10.0

DELAWARE COUNTY

LOCAL IDENTIFI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
20N-24E-17 CCC 1	361221094463901	367RBDX	1060	82-01-29	0845	469	8.0	18.0	--
		367RBDX	1060	82-04-23	0830	479	7.9	19.0	--
		367RBDX	1060	82-07-23	0845	472	8.0	20.0	--
		367RBDX	1060	82-10-22	0830	487	8.0	18.0	--
21N-25E-31 BBB 1	361544094500101	367RBDX	1350	82-01-28	1530	346	8.1	22.0	--
		367RBDX	1350	82-06-16	1330	379	8.0	21.5	--
		367RBDX	1350	82-07-22	1000	410	8.2	25.0	--
		367RBDX	1350	82-10-22	1500	361	8.0	20.5	--
22N-23E-05 DCA 1	362442094520801	367RBDX	1530	82-06-18	0950	1200	7.5	21.5	--
		367RBDX	1530	82-07-22	1200	1210	8.2	22.5	--
22N-23E-11 BBB 1	362427094493001	367RBDX	1440	82-07-27	--	475	7.7	16.5	--
		367RBDX	1440	83-03-21	1445	415	8.0	20.0	0
24N-23E-15 BBC 1	363357094503701	367RBDX	1140	82-06-17	1000	967	8.0	23.0	--
25N-22E-23 CCD 1	363740094553101	367RBDX	1340	82-01-28	1430	531	8.0	19.5	--
		367RBDX	1340	82-04-22	1400	593	8.0	19.5	--
		367RBDX	1340	82-07-21	1200	824	7.9	21.5	--
		367RBDX	1340	82-08-17	1115	590	7.9	22.0	--
		367RBDX	1340	82-10-21	1300	570	8.0	20.0	--

DELAWARE COUNTY--Continued

DATE OF SAMPLE	CALCIUM DIS- SOLVED (mg/L as Ca)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg)	SODIUM, DIS- SOLVED (mg/L as Na)	POTAS- SIUM, DIS- SOLVED (mg/L as K)	ALKA- LINITY FIELD (mg/L as CaCO ₃)	SULFATE DIS- SOLVED (mg/L as SO ₄)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	SILICA, DIS- SOLVED (mg/L as SiO ₂)	RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	ALUM- INUM, DIS- SOLVED (µg/L as Al)	ARSENIC DIS- SOLVED (µg/L as As)
82-01-29	--	--	--	--	--	--	--	--	--	--	--	--
82-04-23	--	--	--	--	--	--	--	--	--	--	--	--
82-07-23	--	--	--	--	--	--	--	--	--	--	--	--
82-10-22	--	--	--	--	--	--	--	--	--	--	--	--
82-01-28	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-10-22	--	--	--	--	--	--	--	--	--	--	--	--
82-06-18	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-07-27	--	--	--	--	--	--	--	--	--	--	--	--
83-03-21	20	7.9	59	2.1	121	11	49	1.2	12	234	<100	<10
82-06-17	--	--	--	--	--	--	--	--	--	--	--	--
82-01-28	--	--	--	--	--	--	--	--	--	--	--	--
82-04-22	--	--	--	--	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--	--	--	--	--
82-08-17	--	--	--	--	--	--	--	--	--	--	--	--
82-10-21	--	--	--	--	--	--	--	--	--	--	--	--

DELAWARE COUNTY--Continued

DATE OF SAMPLE	CADMIUM DIS- SOLVED (µg/L as Cd)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr)	COPPER, DIS- SOLVED (µg/L as Cu)	IRON, DIS- SOLVED (µg/L as Fe)	MANGA- NESE, DIS- SOLVED (µg/L as Mn)	MERCURY DIS- SOLVED (µg/L as Hg)	ZINC, DIS- SOLVED (µg/L as Zn)	GROSS ALPHA, DIS- SOLVED (µg/L as U-NAT)	GROSS ALPHA, SUSP. TOTAL (µg/L as U-NAT)	GROSS ALPHA, DIS- SOLVED (pCi/L as U-NAT)	GROSS BETA, DIS- SOLVED (pCi/L as 137Cs)	GROSS BETA, SUSP. TOTAL (pCi/L as 137Cs)
82-01-29	--	--	--	--	--	--	--	--	--	--	--	--
82-04-23	--	--	--	--	--	--	--	--	--	--	--	--
82-07-23	--	--	--	--	--	--	--	--	--	--	--	--
82-10-22	--	--	--	--	--	--	--	--	--	--	--	--
82-01-28	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-10-22	--	--	--	--	--	--	--	--	--	--	--	--
82-06-18	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-07-27	--	--	--	--	--	--	--	--	--	--	--	--
83-03-21	<1	<10	<12	50	10	<.5	43	31	<.4	21	10	<.4
82-06-17	--	--	--	--	--	--	--	--	--	--	--	--
82-01-28	--	--	--	--	--	--	--	--	--	--	--	--
82-04-22	--	--	--	--	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--	--	--	--	--
82-08-17	--	--	--	--	--	--	--	--	--	--	--	--
82-10-21	--	--	--	--	--	--	--	--	--	--	--	--

LOCAL IDENTIFIER	STATION NUMBER	DATE OF SAMPLE	HARMON COUNTY										SPE-CIFIC CON-DUCT-ANCE (µS/cm)	pH (STAND-ARD UNITS)	TEMPER-ATURE (DEG C)	
			GROSS BETA, DIS-SOLVED (pCi/L ⁹⁰ Sr/ ⁹⁰ Yt)	GROSS BETA, SUSP. TOTAL (pCi/L ⁹⁰ Sr/ ⁹⁰ Yt)	DEPTH OF WELL, TOTAL (FEET)	GEO-LOGIC UNIT	DATE OF SAMPLE	TIME								
06N-26W-04 DDD 1	350101099562801	82-01-29	--	--	--	--	--	--	--	--	--	--	--	20000	6.3	27.0
	350101099562701	82-04-23	--	--	--	--	--	--	--	--	--	--	--	20000	6.6	23.5
	350055099500701	82-07-23	--	--	--	--	--	--	--	--	--	--	--	20000	6.6	26.5
	350055099572301	82-10-22	--	--	--	--	--	--	--	--	--	--	--	20000	6.9	20.0
06N-26W-09 AAA 1		82-01-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		82-06-16	--	--	--	--	5.2	--	--	--	--	--	--	--	--	--
		82-07-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		82-10-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06N-26W-09 BBB 1		82-06-18	--	--	--	--	--	--	--	8.9	--	--	--	--	--	--
		82-07-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		82-07-27	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		83-03-21	9.9	<.4	--	--	--	--	7.5	--	--	--	--	--	--	--
06N-26W-09 DDD 1		82-06-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		82-01-28	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		82-04-22	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		82-07-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
06N-26W-09 EEE 1		82-08-17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
		82-10-21	--	--	--	--	--	--	--	--	--	--	--	--	--	--

HASKELL COUNTY

LOCAL IDENTIFIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (µS/cm)	pH (STANDARD UNITS)	TEMPERATURE (DEG C)	OXYGEN, DISSOLVED (mg/L)
08N-22E-16 DCB 1	350938094591201	--	118	82-03-24	1400	1700	6.8	17.0	--
		--	118	82-06-24	1200	1300	7.2	18.0	--
		--	118	82-09-01	1445	3300	7.2	17.0	--
		--	118	84-05-23	1400	2960	7.2	15.0	.0
08N-22E-16 DDA 1	350943094585701	--	--	82-03-24	1200	4700	6.8	19.0	--
		--	--	82-06-23	1200	3000	7.4	17.5	--
		--	--	82-12-01	1115	3900	7.6	18.0	--
		--	--	82-12-01	1400	3000	8.0	18.0	--
08N-22E-16 DDB 1	350941094590301	--	--	82-03-23	1400	2700	7.2	17.0	--
		--	--	82-06-23	1430	2400	7.0	18.0	--
		--	--	82-09-02	1000	3000	7.0	16.5	--
		--	--	82-12-01	1400	3000	8.0	18.0	--
08N-22E-16 DDB 2	350941094590601	--	--	84-05-24	1800	2720	7.4	16.5	.0
		--	--	82-03-24	1300	3200	7.0	18.0	--
		--	--	82-06-23	1530	2700	7.3	18.0	--
		--	--	82-09-01	1400	3000	--	19.0	--
08N-22E-16 DDB 3	350943094585901	--	--	82-12-01	1040	2800	7.3	18.5	--
		--	--	84-05-25	1000	2130	7.1	21.5	.8
		--	--	82-03-23	1300	7600	7.4	18.0	--
		--	--	82-06-23	1300	3300	7.1	17.5	--
08N-22E-16 DDC 1	350939094590501	--	--	82-09-02	1200	3300	7.2	18.0	--
		--	--	82-12-01	1230	3100	8.0	18.0	--
		--	--	84-05-24	1000	2850	7.7	18.0	.0
		--	--	82-03-23	1300	2370	7.4	18.5	--
		--	--	82-06-24	1100	2300	7.3	18.5	--
		--	--	82-09-01	1300	2900	--	17.0	--
		--	--	82-12-01	0900	2400	7.3	17.0	--

HASKELL COUNTY--Continued

DATE OF SAMPLE	BARO- METRIC PRES- SURE (mm of Hg)	HYDRO- GEN SULFIDE TOTAL (mg/L as H ₂ S)	HARD- NESS (mg/L as CaCO ₃)	HARD- NESS (mg/L as CaCO ₃)	HARD- NESS NONCAR- BONATE (mg/L as CaCO ₃)	CALCIUM DIS- SOLVED (mg/L as Ca)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg)	SODIUM, DIS- SOLVED (mg/L as Na)	PERCENT SODIUM	SODIUM AD- SORP- TION RATIO (SAR)	POTAS- SIUM, DIS- SOLVED (mg/L as K)	BICAR- BONATE FET-FLD (mg/L as HCO ₃)	BICAR- BONATE IT-FLD (mg/L as HCO ₃)
82-03-24	--	--	190	0	37	23	220	72	7	1.5	--	--	--
82-06-24	--	--	130	0	26	15	200	77	8	1.2	--	--	--
82-09-01	--	--	530	168	100	68	470	66	9	2.5	--	--	--
84-05-23	730	.0	530	145	98	70	440	64	8	2.4	--	475	--
82-03-24	--	--	2000	1700	270	310	690	43	7	5.5	--	--	--
82-06-23	--	--	1100	859	160	170	420	45	6	4.1	--	--	--
82-12-01	--	--	1600	1420	230	260	430	36	5	4.7	--	--	--
82-12-01	--	--	570	151	92	82	240	48	4	2.1	--	--	--
82-03-23	--	--	420	104	77	56	460	70	10	2.4	--	--	--
82-06-23	--	--	380	0	70	49	450	72	10	2.2	--	--	--
82-09-02	--	--	380	0	73	48	500	74	11	2.3	--	--	--
82-12-01	--	--	570	151	92	82	240	48	4	2.1	--	--	--
84-05-24	725	2.3	400	6	76	50	470	72	11	2.2	480	476	--
82-03-24	--	--	650	60	95	100	560	65	10	1.8	--	--	--
82-06-23	--	--	600	0	89	92	570	67	10	2.1	--	--	--
82-09-01	--	--	480	0	74	72	480	68	10	1.5	--	--	--
82-12-01	--	--	610	258	89	94	450	62	8	2.0	--	--	--
84-05-25	730	.0	400	0	71	55	330	64	7	1.9	640	642	--
82-03-23	--	--	77	0	18	7.6	550	94	28	1.6	--	--	--
82-06-23	--	--	310	0	54	43	460	76	12	2.2	--	--	--
82-09-02	--	--	160	0	33	19	560	88	20	2.5	--	--	--
82-12-01	--	--	66	0	15	6.8	670	96	37	1.8	--	--	--
84-05-24	725	2.4	110	0	25	11	560	92	24	1.5	610	610	--
82-03-23	--	--	360	0	65	49	400	70	9	1.6	--	--	--
82-06-24	--	--	480	28	81	68	450	67	9	2.2	--	--	--
82-09-01	--	--	440	0	77	60	450	69	10	2.6	--	--	--
82-12-01	--	--	330	0	56	45	440	75	11	1.8	--	--	--

HASKELL COUNTY--Continued

DATE OF SAMPLE	CAR- BONATE FET-FLD (mg/L as CO ₃)	ALKA- LINITY LAB (mg/L as CaCO ₃)	ALKA- LINITY, CARBON- ATE IT-FLD (mg/L as CaCO ₃)	SULFATE DIS- SOLVED (mg/L as SO ₄)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	SILICA, DIS- SOLVED (mg/L as SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (mg/L)	NITRO- GEN, NITRITE DIS- SOLVED (mg/L as N)	NITRO- GEN, NO ₂ +NO ₃ DIS- SOLVED (mg/L as N)	NITRO- GEN, AMMONIA DIS- SOLVED (mg/L as N)
82-03-24	--	290	--	360	23	.40	14	815	860	--	--	--
82-06-24	--	280	--	270	6.5	.40	14	679	700	--	--	--
82-09-01	--	363	--	850	190	.40	6.3	1970	1900	--	--	--
84-05-23	--	--	390	690	340	.30	6.0	--	1900	<.010	<.10	.300
82-03-24	--	250	--	3100	6.1	.30	5.2	4810	4500	--	--	--
82-06-23	--	242	--	1700	26	.30	4.5	2860	2600	--	--	--
82-12-01	--	227	--	2200	4.7	.30	4.1	3610	3300	--	--	--
82-12-01	--	418	--	660	30	.40	12	1300	1400	--	--	--
82-03-23	--	320	--	880	130	.50	6.9	1740	1800	--	--	--
82-06-23	--	451	--	710	120	.40	8.6	1690	1700	--	--	--
82-09-02	--	443	--	780	160	.40	7.1	1810	1800	--	--	--
82-12-01	--	418	--	660	30	.40	12	1300	1400	--	--	--
84-05-24	0	--	390	760	220	.40	6.7	--	1800	<.010	<.10	.360
82-03-24	--	590	--	1200	29	.90	10	2380	2400	--	--	--
82-06-23	--	610	--	1200	28	.90	11	2350	2400	--	--	--
82-09-01	--	710	--	700	60	.90	11	1820	1800	--	--	--
82-12-01	--	352	--	1100	33	.80	11	1970	2000	--	--	--
84-05-25	0	--	526	540	48	.50	19	--	1400	<.010	<.10	.440
82-03-23	--	560	--	590	84	.60	10	1640	1600	--	--	--
82-06-23	--	493	--	640	150	.50	12	1680	1700	--	--	--
82-09-02	--	514	--	730	84	.50	8.8	1780	1700	--	--	--
82-12-01	--	593	--	820	110	.60	9.5	2040	2000	--	--	--
84-05-24	0	--	500	690	120	.50	9.3	--	1700	.020	1.1	1.20
82-03-23	--	410	--	710	55	.60	8.8	1520	1500	--	--	--
82-06-24	--	455	--	850	54	.60	11	1790	1800	--	--	--
82-09-01	--	568	--	720	68	.70	11	1720	1700	--	--	--
82-12-01	--	492	--	680	93	.70	11	1620	1600	--	--	--

HASKELL COUNTY--Continued

DATE OF SAMPLE	NITRO- GEN, AM- MONIA + ORGANIC DIS. (mg/L as N)	PHOS- PHORUS, DIS- SOLVED (mg/L as P)	PHOS- PHORUS, ORTHO, DIS- SOLVED (mg/L as P)	ALUM- INUM, DIS- SOLVED (µg/L as Al)	ARSENIC DIS- SOLVED (µg/L as As)	BERYL- LIUM, DIS- SOLVED (µg/L as Be)	BORON, DIS- SOLVED (µg/L as B)	CADMIUM DIS- SOLVED (µg/L as Cd)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr)	COPPER, DIS- SOLVED (µg/L as Cu)	IRON, DIS- SOLVED (µg/L as Fe)	LEAD, DIS- SOLVED (µg/L as Pb)
82-03-24	--	--	--	40	1	2.0	--	<1	<10	<1	1300	<1
82-06-24	--	--	--	10	<1	.5	--	<1	<10	<1	19	<1
82-09-01	--	--	--	<10	<1	<10	--	<5	<10	5	60	10
84-05-23	.50	.010	.020	<10	--	--	480	--	--	--	190	--
82-03-24	--	--	--	60	1	--	--	1	10	1	170	2
82-06-23	--	--	--	30	1	<10	--	<1	<10	1	30	<1
82-12-01	--	--	--	20	1	<10	--	1	<10	4	40	1
82-12-01	--	--	--	<10	2	<10	--	<1	<10	<1	1200	<1
82-03-23	--	--	--	30	1	<10	--	1	<10	1	30	1
82-06-23	--	--	--	20	2	<10	--	<1	<10	<1	20	<1
82-09-02	--	--	--	<10	1	<10	--	<1	10	1	80	2
82-12-01	--	--	--	<10	2	<10	--	<1	<10	<1	1200	<1
84-05-24	.60	.010	.020	20	--	--	470	--	--	--	720	--
82-03-24	--	--	--	30	1	<10	--	2	<10	3	70	2
82-06-23	--	--	--	20	<1	<10	--	2	<10	4	30	3
82-09-01	--	--	--	<10	<1	<10	--	1	10	3	20	<1
82-12-01	--	--	--	50	1	<10	--	<1	<10	2	30	<1
84-05-25	1.0	.020	.020	20	--	--	280	--	10	--	50	--
82-03-23	--	--	--	20	2	<10	--	2	<--	3	1300	1
82-06-23	--	--	--	370	1	<10	--	1	<10	6	30	<1
82-09-02	--	--	--	340	2	<10	--	<1	10	1	1000	<1
82-12-01	--	--	--	90	2	<10	--	<1	<10	1	470	<1
84-05-24	2.2	.110	.040	20	--	--	530	--	--	--	4	--
82-03-23	--	--	--	30	1	<10	--	1	<10	1	30	<1
82-06-24	--	--	--	30	2	<10	--	<1	<10	<1	80	1
82-09-01	--	--	--	70	3	<10	--	1	10	1	300	2
82-12-01	--	--	--	50	2	<10	--	<1	<10	<1	1100	1

HASKELL COUNTY--Continued

DATE OF SAMPLE	LITHIUM DIS- SOLVED (µg/L as Li)	MANGA- NESE, DIS- SOLVED (µg/L as Mn)	MERCURY DIS- SOLVED (µg/L as Hg)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo)	NICKEL, DIS- SOLVED (µg/L as Ni)	SELE- NIUM, DIS- SOLVED (µg/L as Se)	STRON- TIUM, DIS- SOLVED (µg/L as Sr)	VANA- DIUM, DIS- SOLVED (µg/L as V)	ZINC, DIS- SOLVED (µg/L as Zn)
82-03-24	38	730	<.1	<1	<1	<1	250	<1	4
82-06-24	30	600	<.1	<1	1	<1	180	<1	34
82-09-01	80	760	<.1	<1	5	<1	740	<1	10
84-05-23	--	410	--	<1	--	<1	900	--	--
82-03-24	90	1400	<.1	1	5	5	1800	1	10
82-06-23	70	610	<.1	1	2	5	990	1	10
82-12-01	90	290	.2	<1	<1	17	1400	1	40
82-12-01	40	3400	.3	<1	1	<1	640	3	30
82-03-23	70	770	<.1	1	2	<1	590	2	10
82-06-23	70	930	<.1	<1	1	<1	520	<1	20
82-09-02	70	560	<.1	<1	3	<1	600	<1	10
82-12-01	40	3400	.3	<1	1	<1	640	3	30
84-05-24	--	510	--	<1	--	<1	750	--	--
82-03-24	30	510	.4	2	4	<1	560	2	10
82-06-23	20	470	<.1	1	3	<1	520	3	20
82-09-01	20	680	.6	<1	3	<1	410	<1	10
82-12-01	40	480	.1	<1	2	4	630	2	20
84-05-25	--	250	--	1	--	<1	580	--	--
82-03-23	50	180	.4	1	2	<1	240	2	20
82-06-23	40	1700	.1	<1	8	<1	350	<1	80
82-09-02	60	610	<.1	11	2	<1	280	<1	20
82-12-01	60	260	.1	<1	<1	<1	200	14	40
84-05-24	--	150	--	2	--	<1	380	--	--
82-03-23	40	310	<.1	2	2	<1	460	1	30
82-06-24	40	950	<.1	2	3	<1	540	<1	30
82-09-01	40	1700	<.1	7	4	<1	490	<1	10
82-12-01	50	930	<.1	<1	<1	<1	450	31	50

HUGHES COUNTY

LOCAL IDENTIFIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CONDUCTANCE (µS/cm)	pH (STANDARD UNITS)	TEMPERATURE (DEG C)
08N-08E-23 CCD 1	350846096234401	--	--	82-07-20	--	1510	8.4	22.0
08N-08E-25 AAA 1	350839096242301	--	188	82-07-20	--	150	5.8	19.0
08N-08E-25 BAB 1	350839096250501	--	--	82-07-20	--	461	5.8	22.0
08N-09E-01 DAA 1	351138096180201	--	85.53	82-07-20	--	856	7.4	21.0
08N-09E-16 CCC 1	350937096220801	--	32.89	82-07-20	--	449	5.7	20.0
08N-09E-17 ABA 1	351022096223301	--	31.41	82-07-20	--	570	6.4	18.0
08N-09E-19 ADD 1	350909096232201	--	--	82-07-20	--	850	7.7	21.0
09N-10E-11 CAB 1	351604096132401	--	--	82-07-13	--	565	6.9	27.5
09N-10E-13 BBB 1	351538096123401	--	--	82-07-13	--	--	6.9	19.0
09N-10E-24 DDD 1	351357096132101	--	46.00	82-07-21	--	640	6.8	19.0
09N-10E-25 BAA 1	351350096120901	--	20.51	82-07-21	--	475	6.4	19.0
09N-10E-27 CDD 1	351304096142201	--	36.54	82-07-20	--	370	6.4	16.5
09N-10E-35 DAD 1	351224096124601	--	--	82-07-21	--	672	5.4	24.0
09N-11E-15 BAB 1	351538096080301	--	--	82-07-14	--	1360	7.0	18.0
09N-11E-18 DDC 1	351450096104801	--	135	82-07-21	--	1330	7.2	19.0
09N-11E-19 CDB 1	351407096111601	--	65.18	82-07-21	--	1560	6.6	20.0
09N-11E-30 DDC 1	351304096104501	--	--	82-07-21	--	1470	6.2	21.0
JACKSON COUNTY								
01N-23W-21 CCC 1	343214099375001	--	--	84-07-27	--	5150	7.2	19.0
02N-22W-28 BCD 1	343702099312301	--	--	84-07-26	--	3650	7.3	20.0
JEFFERSON COUNTY								
06S-05W-14 AAC 1	340208097412401	--	--	84-08-15	--	286	7.3	21.0
07S-07W-28 DAA 1	335502097553801	--	--	84-08-14	--	810	7.5	20.0

KIOWA COUNTY									
LOCAL IDENTIFI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	
05N-14W-28 BCD 1	345244098411301	--	--	84-07-11	--	58	7.6	18.5	
05N-14W-28 BDB 1	345251098410501	--	--	84-07-11	--	34	7.6	19.5	
05N-14W-28 BDC 1	345244098410501	--	--	84-07-11	--	47	7.5	19.0	
05N-14W-28 BDD 1	345244098405701	--	--	84-07-11	--	44	7.4	19.0	
05N-14W-28 CAB 1	345238098410501	--	--	84-07-11	--	48	7.4	19.0	
06N-14W-09 CCD 1	350009098411301	--	--	84-07-12	--	14000	7.0	22.0	
LINCOLN COUNTY									
12N-02E-30 CDC 1	352847097080701	--	95.00	82-06-15	--	683	6.8	22.0	
12N-02E-31 CDC 1	352752097080401	--	--	82-06-15	--	250	5.6	17.5	
12N-02E-32 BCB 1	352823097072401	--	--	82-06-15	--	795	6.8	20.0	
MCINTOSH COUNTY									
10N-13E-23 BAA 1	351958095541101	--	17.54	82-07-14	--	474	6.0	28.0	
10N-14E-02 ABB 1	352234095474301	--	65.59	82-07-15	--	638	6.7	18.5	
11N-14E-27 AAD 1	352410095482301	--	--	82-07-15	--	1120	7.5	18.0	
11N-14E-36 BBB 1	352418095470801	--	57.56	82-07-15	--	575	7.3	19.0	
OKFUSKEE COUNTY									
10N-09E-13 DDA 1	352012096180101	--	--	82-07-12	--	862	6.7	22.0	
10N-09E-24 DAA 1	351930096180101	--	98.19	82-07-08	--	688	7.6	17.0	
10N-10E-19 ADA 1	351944096165701	--	23.29	82-07-08	--	967	5.9	18.0	
10N-11E-19 BBA 1	351959096112501	--	32.82	82-07-12	--	696	6.9	17.5	
10N-11E-22 CAC 1	351926096080401	--	38.45	82-07-13	--	2090	6.8	17.0	

OKFUSKEE COUNTY--Continued

LOCAL IDENTI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
10N-11E-23 CAD 1	351928096065101	--	--	82-07-14	--	1430	7.1	20.0
10N-11E-24 DAC 1	351923096052801	--	37.29	82-07-14	--	445	7.0	16.0
10N-12E-17 DBA 1	352020096032701	--	119	82-07-13	--	1060	6.5	22.0
10N-12E-21 ADC 1	351935096021801	--	54.45	82-07-14	--	906	6.6	21.0
10N-12E-26 BDA 1	351853096003401	--	--	82-07-14	--	183	5.7	22.0
11N-07E-02 BCC 1	352728096324701	--	146	82-07-06	--	421	6.4	19.0
11N-07E-03 CBB 1	352720096334901	--	--	82-07-02	--	584	6.8	17.5
11N-07E-20 CBC 1	352437096360001	--	58.00	82-07-02	--	363	6.6	17.0
11N-07E-20 DAA 1	352447096345901	--	270	82-07-02	--	603	6.6	19.0
11N-08E-12 DCA 1	352619096243701	--	31.00	82-07-06	--	1060	7.2	17.0
11N-09E-19 DDA 1	352432096231901	--	86.29	82-07-07	--	412	8.0	18.0

OKLAHOMA COUNTY

11N-02W-06 BAB 2	352748097271401	--	310	82-06-04	--	477	6.8	17.0
11N-03W-01 ABD 1	352740097275301	--	191	82-06-04	--	422	7.0	17.0
11N-03W-01 CAA 1	352724097280701	--	162	82-06-03	--	573	7.8	19.5
11N-03W-06 CCC 1	352703097335301	--	750	82-06-01	--	534	7.9	18.0
11N-03W-08 AAD 1	352651097315201	--	47.80	82-06-01	--	482	6.8	19.0
11N-04W-03 CBB 1	352721097370601	--	--	82-06-01	--	1140	7.3	21.0
11N-04W-04 BBA 1	352749097375901	--	--	82-06-01	--	773	7.0	18.0
11N-04W-05 DDD 1	352702097381601	--	--	82-05-28	--	1720	7.1	19.0
11N-04W-06 BAA 1	352746097394601	--	50.10	82-05-27	--	757	7.8	17.0
11N-04W-06 DAA 1	352721097391501	--	55.00	82-05-27	--	368	7.2	23.0
11N-04W-12 CBC 1	352624097345401	--	50.90	82-06-01	--	1510	6.9	19.0
11N-04W-15 BBA 1	352605097370201	--	16.64	82-06-01	--	3460	6.7	17.0

OKLAHOMA COUNTY--Continued

LOCAL IDENTIFI- FIER	STATION	NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
12N-01E-01 AAA 1	353302097145101		--	--	82-06-09	--	720	7.0	20.0
12N-01E-07 ABA 1	353209097140701		--	52.89	82-06-10	--	805	6.9	17.0
12N-01E-07 CBB 1	353142097144801		--	85.40	82-06-09	--	690	6.8	17.0
12N-01E-07 DAA 1	353143097134901		--	67.75	82-06-14	--	951	6.8	19.0
12N-01E-16 AAB 1	353116097115401		--	130	82-06-14	--	401	7.1	20.0
12N-01E-16 DDA 1	353107097114201		--	60.00	82-06-14	--	691	6.4	19.0
12N-01E-17 AAB 1	353117097125301		--	52.44	82-06-14	--	308	6.2	19.0
12N-01E-17 BCB 1	353358097134401		--	48.00	82-06-14	--	--	6.9	--
12N-01E-19 BBA 1	352940097152701		--	--	82-06-10	--	400	6.5	19.0
12N-01E-20 CCB 1	352947097134601		--	60.00	82-06-14	--	308	6.3	18.5
12N-01E-20 DDA 1	352949097124801		--	--	82-06-14	--	433	6.4	22.0
12N-01E-21 AAA 1	353023097114201		--	113	82-06-14	--	704	7.2	19.0
12N-01E-21 DBD 1	352951097115701		--	--	82-06-14	--	388	6.7	19.0
12N-01E-21 DDD 1	352941097114101		--	110	82-06-14	--	463	6.3	20.0
12N-01E-22 DDD 1	352938097103801		--	--	82-06-14	--	884	6.6	18.0
12N-01E-23 DAD 1	352948097093601		--	188	82-06-14	--	1670	7.1	18.5
12N-01E-24 CCA 1	352945097092201		--	164	82-06-14	--	1760	6.9	17.5
12N-01E-25 ABA 1	352930097084701		--	--	82-06-15	--	613	6.6	17.0
12N-01E-25 BBC 1	352927097092901		--	--	82-06-14	--	970	6.7	19.0
12N-01E-36 CBC 1	352808097093001		--	--	82-06-15	--	359	6.1	17.0
12N-01W-01 DCD 1	353214097150601		--	--	82-06-09	--	616	6.8	77.0
12N-02W-02 ABB 1	353303097224701		--	125	82-06-07	--	398	7.2	19.0
12N-02W-02 DAA 1	353231097221801		--	20.20	82-06-08	--	575	6.8	21.0
12N-02W-02 DCC 1	353214097224401		--	145	82-06-07	--	420	7.3	19.0
12N-02W-10 ADA 1	353157097232101		--	200	82-06-07	--	388	7.1	17.0

OKLAHOMA COUNTY--Continued

LOCAL IDENTIFI- FIER	STATION	NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
12N-02W-10 BAB 1	353210097240001		--	85.00	82-06-07	--	610	6.8	20.0
12N-02W-11 BCB 1	353727097230701		--	137	82-06-07	--	1030	7.0	19.0
12N-02W-11 CBC 1	353138097231601		--	106	82-06-07	--	664	7.1	18.0
12N-02W-11 DCC 1	353126097224001		--	35.87	82-06-08	--	594	6.4	17.0
12N-02W-12 BCB 1	353154097221101		--	91.09	82-06-08	--	473	6.7	20.5
12N-02W-15 ADD 1	353054097232001		--	--	82-06-07	--	575	6.6	20.0
12N-02W-15 BDC 1	353054097235901		--	45.00	82-06-07	--	1010	6.8	19.0
12N-02W-16 BBA 1	353147097251601		--	96.14	82-06-04	--	518	7.9	17.5
12N-02W-17 DDD 1	353102097252901		--	--	82-06-04	--	510	7.0	18.0
12N-02W-20 BBA 1	353024097261601		--	158	82-06-04	--	763	6.9	19.0
12N-02W-20 CCB 1	352947097262701		--	--	82-06-04	--	691	7.5	19.0
12N-02W-20 DCD 1	352939097254901		--	57.65	82-06-04	--	836	6.7	7.0
12N-02W-21 ABC 1	353017097245201		--	62.97	82-06-09	--	781	6.8	18.0
12N-02W-22 BBC 1	353019097242101		--	--	82-06-08	--	880	6.6	23.0
12N-02W-28 CCB 1	352855097252301		--	260	82-06-04	--	935	7.3	17.0
12N-02W-30 BAB 1	352933097271701		--	160	82-06-04	--	524	7.5	17.0
12N-02W-30 BBA 1	352934097272401		--	--	82-06-03	--	1210	7.0	19.0
12N-02W-31 AAA 1	352840097263201		--	150	82-06-03	--	1050	7.0	18.5
12N-02W-32 BAD 1	352838097260101		--	100	82-06-03	--	583	7.2	19.0
12N-04W-06 AAD 1	353253097391601		--	97.79	82-05-25	--	622	7.3	18.0
12N-04W-07 CAA 1	353145097394701		--	100	82-05-25	--	10200	7.4	18.0
12N-04W-30 CAA 1	352853097393101		--	45.00	82-05-27	--	579	6.5	18.0
12N-04W-30 DBC 1	343000097394401		--	78.00	82-05-27	--	795	7.1	17.0
12N-04W-32 CBA 1	352816097390601		--	49.09	82-05-28	--	806	6.7	20.0
12N-04W-33 CCD 1	352753097380501		--	--	82-05-29	--	598	7.2	17.5
12N-04W-35 BBC 1	352821097360101		--	--	82-06-01	--	1010	7.0	21.0
13N-01E-31 CBA 1	353328097144001		--	--	82-06-09	--	736	7.1	18.0
13N-01W-15 CBB 1	353606097175701		--	104	82-06-08	--	642	7.0	19.0

OKLAHOMA COUNTY--Continued

LOCAL IDENTI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
13N-01W-17 BAC 1	353622097194501	--	163	82-06-08	--	688	7.1	19.0
13N-01W-18 ADA 1	353618097201401	--	44.00	82-06-08	--	560	6.9	19.0
13N-01W-19 ADD 1	353515097201101	--	--	82-06-07	--	405	6.5	23.0
13N-01W-19 BCC 1	353539097203801	--	--	82-06-08	--	872	7.0	19.0
13N-01W-19 DCC 1	353452097203701	--	78.77	82-06-09	--	476	6.9	19.0
13N-01W-21 DCC 1	353451097183101	--	102	82-05-20	--	386	6.8	18.0
13N-01W-22 AAD 1	353532097170201	--	120	82-06-09	--	477	6.8	22.0
13N-01W-22 BBC 1	353528097175901	--	108	82-06-09	--	1060	6.8	18.5
13N-01W-22 DCC 1	353450097172701	--	48.44	82-06-09	--	780	6.9	19.0
13N-01W-23 CDA 1	353457097162701	--	143	82-05-20	--	500	7.2	18.0
13N-01W-25 BCA 1	353429097154401	--	200	82-06-09	--	535	6.5	22.0
13N-01W-26 AAA 1	353445097155601	--	130	82-06-09	--	483	6.8	21.0
13N-01W-26 DCC 1	353356097162301	--	250	82-06-10	--	1640	6.9	20.5
13N-01W-30 CCB 1	353403097210901	--	107	82-06-07	--	204	5.9	18.0
13N-01W-35 CDA 1	353313097162601	--	--	82-06-10	--	529	6.8	22.0
13N-01W-35 DDD 1	353305097155301	--	139	82-06-10	--	1620	6.6	18.0
13N-02W-23 DAA 1	353513097222201	--	--	82-06-09	--	6240	7.0	18.0
13N-02W-24 AAD 1	353530097211701	--	--	82-06-08	--	768	7.0	19.0
13N-02W-24 DCC 1	353454097213901	--	111	82-06-08	--	490	6.9	18.5
13N-02W-25 BAB 1	353447097215801	--	96.89	82-06-08	--	364	7.2	17.0
13N-02W-35 BBD 1	353351097230701	--	85.00	82-06-07	--	1230	7.0	19.0
13N-02W-35 CCC 1	353306097231801	--	--	82-06-07	--	846	7.0	18.0
13N-02W-36 ABB 1	353354097213901	--	84.63	82-06-07	--	232	6.0	20.0
14N-01E-31 DBD 1	353830097140501	--	--	84-06-13	--	351	7.1	15.0
14N-01W-11 CDA 1	354157097162901	--	--	84-06-11	--	761	7.5	20.0

OKMULGEE COUNTY

11N-13E-36 BDC 1	352307095531301	--	36.82	82-07-15	--	352	6.0	20.0
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OTTAWA COUNTY

LOCAL IDENTIFIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPECIFIC CONDUCTANCE (µS/cm)	pH (STANDARD UNITS)	TEMPERATURE (DEG C)	COLOR (PLATINUM-COBALT UNITS)
26N-22E-15 DDA 1	364349094554501	367RBDX	1110	82-01-26	1400	869	8.3	18.5	--
		367RBDX	1110	82-04-21	1100	913	8.2	20.0	--
		367RBDX	1110	82-07-22	1100	913	8.4	21.0	--
		367RBDX	1110	82-10-20	1100	898	8.3	19.5	--
26N-22E-20 BCC 1	364323094585101	367RBDX	1140	82-06-16	0900	1140	8.0	19.5	--
26N-22E-32 ADC 1	364135094580001	367RBDX	991	82-06-16	1005	1560	7.7	21.5	--
26N-22E-32 ADC 2	364135094580002	367RBDX	900	82-01-27	1330	1280	8.0	20.5	--
		367RBDX	900	82-04-21	1300	1390	7.9	20.5	--
		367RBDX	900	82-06-16	1000	1380	7.7	21.0	--
		367RBDX	900	82-07-21	1030	1520	8.0	22.5	--
26N-23E-09 BDD 1	364501094505301	367RBDX	1250	82-06-18	0800	819	7.5	21.5	--
26N-23E-09 DBC 1	364454094504401	367RBDX	1250	82-01-27	1030	602	7.9	20.0	--
		367RBDX	1250	82-04-22	1030	557	7.8	21.0	--
		367RBDX	1250	82-07-22	1000	593	8.0	22.0	--
		367RBDX	1250	82-10-21	0830	588	7.9	19.0	--
27N-23E-17 CBB 1	364951094522201	367RBDX	1200	82-01-26	1030	451	8.1	19.0	--
		367RBDX	1200	82-04-20	1000	476	7.9	19.0	--
		367RBDX	1200	82-07-21	0900	458	8.2	20.5	--
		367RBDX	1200	82-10-20	1000	471	7.8	19.0	--
27N-24E-28 CAD 1	364717094433101	367RBDX	1100	82-01-27	1505	317	8.0	19.0	--
		367RBDX	1100	82-04-21	1500	323	8.0	19.0	--
		367RBDX	1100	82-07-20	1500	332	8.0	23.0	--
		367RBDX	1100	82-10-20	1500	319	7.9	19.5	--
28N-22E-23 BAA 1	365357094541901	--	25.50	82-07-28	--	750	8.0	16.5	--
28N-23E-06 BAC 2	365627094522101	367RBDX	1250	82-10-20	1830	290	7.9	16.0	--

OTTAWA COUNTY--Continued

DATE OF SAMPLE	TUR- BID- ITY (NTU)	ACIDITY (mg/L as CaCO ₃)	CALCIUM DIS- SOLVED (mg/L as Ca)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg)	SODIUM, DIS- SOLVED (mg/L as Na)	POTAS- SIUM, DIS- SOLVED (mg/L as K)	ALKA- LINITY FIELD (mg/L as CaCO ₃)	SULFATE DIS- SOLVED (mg/L as SO ₄)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	SILICA, DIS- SOLVED (mg/L as SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)
82-01-26	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-01-27	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--	--	--	--	--
82-06-18	--	--	--	--	--	--	--	--	--	--	--	--
82-01-27	--	--	--	--	--	--	--	--	--	--	--	--
82-04-22	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-10-21	--	--	--	--	--	--	--	--	--	--	--	--
82-01-26	--	--	--	--	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-01-27	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-07-28	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	18	4.6	.70	--	162

OTTAWA COUNTY--Continued

DATE OF SAMPLE	ALUM- INUM, DIS- SOLVED (µg/L as Al)	ARSENIC DIS- SOLVED (µg/L as As)	CADMIUM DIS- SOLVED (µg/L as Cd)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr)	COPPER, DIS- SOLVED (µg/L as Cu)	IRON, DIS- SOLVED (µg/L as Fe)	LEAD, DIS- SOLVED (µg/L as Pb)	MANGA- NESE, DIS- SOLVED (µg/L as Mn)	MERCURY DIS- SOLVED (µg/L as Hg)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo)	ZINC, DIS- SOLVED (µg/L as Zn)	GROSS ALPHA, DIS- SOLVED (µg/L as U-NAT)
82-01-26	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-01-27	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--	--	--	--	--
82-06-18	--	--	--	--	--	--	--	--	--	--	--	--
82-01-27	--	--	--	--	--	--	--	--	--	--	--	--
82-04-22	--	--	--	--	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--	--	--	--	--
82-10-21	--	--	--	--	--	--	--	--	--	--	--	--
82-01-26	--	--	--	--	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-01-27	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-07-28	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	<100	--	<4	20	<12	1100	<5	20	--	--	40	--

OTTAWA COUNTY--Continued

DATE OF SAMPLE	GROSS ALPHA, SUSP. TOTAL (µg/L as U-NAT)	GROSS ALPHA, DIS- SOLVED (pCi/L as U-NAT)	GROSS BETA, DIS- SOLVED (pCi/L as 137Cs)	GROSS BETA, SUSP. TOTAL (pCi/L as 137Cs)	GROSS BETA, DIS- SOLVED (pCi/L as Sr/ 90Yt)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr/ 90Yt)	RADIUM, DIS- SOLVED, PLAN- CHET COUNT (pCi/L as 226Ra)	RADIUM, DIS- SOLVED (pCi/L as 228Ra)
82-01-26	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	4.3	<3.0
82-06-16	--	--	--	--	--	--	14	<3.0
82-01-27	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--
82-06-16	--	--	--	--	--	--	7.3	<3.0
82-07-21	--	--	--	--	--	--	--	--
82-06-18	--	--	--	--	--	--	6.5	<2.0
82-01-27	--	--	--	--	--	--	--	--
82-04-22	--	--	--	--	--	--	--	--
82-07-22	--	--	--	--	--	--	--	--
82-10-21	--	--	--	--	--	--	--	--
82-01-26	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--
82-07-21	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--
82-01-27	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--
82-07-28	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--

OTTAWA COUNTY--Continued

LOCAL IDENTIFI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)	COLOR (PLAT- INUM- COBALT UNITS)
28N-23E-06 BAC 2	365627094522101	367RBDX	1250	82-10-20	1900	452	7.9	16.0	--
		367RBDX	1250	83-03-22	0920	335	7.6	20.0	0
28N-23E-06 CCA 1	365557094523001	367RBDX	1050	83-03-22	0900	313	7.6	20.0	0
28N-23E-30 DBC 1	365229094520201	367RBDX	1410	82-10-08	1330	1400	7.5	14.5	--
		367RBDX	1410	82-12-08	1300	485	7.4	14.5	--
28N-23E-30 DBC 1	365229094520201	367RBDX	1410	82-12-08	1400	16800	7.3	15.0	--
28N-25E-20 CAA 1	365335094380701	367RBDX	1410	82-01-25	1430	305	8.0	17.5	--
		367RBDX	1410	82-04-21	0910	313	7.8	18.0	--
		367RBDX	1410	82-07-20	1600	297	8.0	23.0	--
29N-22E-21 DAD 1	365833094551901	367RBDX	1200	82-01-26	0900	948	8.3	17.0	--
29N-22E-21 DAD 1	365833094551901	367RBDX	1200	82-04-20	0900	955	7.9	19.0	--
		367RBDX	1200	82-07-20	0830	1010	8.0	22.0	--
		367RBDX	1200	82-10-20	0900	983	8.0	20.0	--
29N-23E-16 DDD 1	365917094484701	367RBDX	1060	82-12-26	1500	4100	5.9	--	--
29N-23E-21 BBC 1	365905094494601	367RBDX	1070	82-09-02	0830	429	7.3	22.0	0
29N-23E-21 BBC 2	365905094494602	367RBDX	1120	82-09-02	0831	425	7.3	22.0	0
29N-23E-21 BBC 3	365905094494603	367RBDX	1120	82-09-02	0832	549	7.3	22.0	0
29N-23E-32 AAC 1	365722094500401	367RBDX	722	82-04-20	1730	447	7.6	17.0	--
		367RBDX	722	82-04-20	1750	3640	5.2	16.0	--

OTTAWA COUNTY--Continued

DATE OF SAMPLE	TUR- BID- ITY (NTU)	ACIDITY (mg/L as CaCO ₃)	CALCIUM DIS- SOLVED (mg/L as Ca)	MAGNE- SIUM, DIS- SOLVED (mg/L as Mg)	SODIUM, DIS- SOLVED (mg/L as Na)	POTAS- SIUM, DIS- SOLVED (mg/L as K)	ALKA- LINITY FIELD (mg/L as CaCO ₃)	SULFATE DIS- SOLVED (mg/L as SO ₄)	CHLO- RIDE, DIS- SOLVED (mg/L as Cl)	FLUO- RIDE, DIS- SOLVED (mg/L as F)	SILICA, DIS- SOLVED (mg/L as SiO ₂)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (mg/L)
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
83-03-22	--	--	34	15	20	2.5	120	26	28	.40	9.8	200
83-03-22	--	--	--	12	17	3.0	129	20	5.5	1.1	26	166
82-10-08	--	--	--	--	--	--	--	16	330	.70	--	686
82-12-08	--	--	--	--	--	--	--	14	65	.90	--	228
82-12-08	--	--	--	--	3200	--	--	13	--	2.1	--	94100
82-01-25	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
82-01-26	--	--	--	--	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-12-26	--	--	--	--	--	--	--	--	--	--	--	--
82-09-02	.70	1.0	40	17	12	2.7	121	58	10	.40	8.8	238
82-09-02	.80	1.0	36	16	12	2.4	121	47	11	.40	8.8	222
82-09-02	.60	1.0	49	21	18	2.8	128	92	19	.30	9.2	308
82-04-20	--	--	80	4.9	1.4	1.6	--	86	<1.0	--	7.4	--
82-04-20	--	--	440	110	51	3.8	--	2000	7.6	--	36	--

OTTAWA COUNTY--Continued

DATE OF SAMPLE	ALUM- INUM, DIS- SOLVED (µg/L as Al)	ARSENIC DIS- SOLVED (µg/L as As)	CADMIUM DIS- SOLVED (µg/L as Cd)	CHRO- MIUM, DIS- SOLVED (µg/L as Cr)	COPPER, DIS- SOLVED (µg/L as Cu)	IRON, DIS- SOLVED (µg/L as Fe)	LEAD, DIS- SOLVED (µg/L as Pb)	MANGA- NESE, DIS- SOLVED (µg/L as Mn)	MERCURY DIS- SOLVED (µg/L as Hg)	MOLYB- DENUM, DIS- SOLVED (µg/L as Mo)	ZINC, DIS- SOLVED (µg/L as Zn)	CROSS ALPHA, DIS- SOLVED (µg/L as U-NAT)
82-10-20	<100	--	<4	20	22	2200	12	40	--	--	100	--
83-03-22	<100	<10	<1	<10	<12	20	<5	<10	<5	--	15	12
83-03-22	<100	<10	<1	<10	<12	50	<5	<10	<5	--	<11	7.6
82-10-08	<100	--	6	<10	<12	<10	<5	10	--	--	26	--
82-12-08	<100	--	<4	<10	<12	<10	<5	10	--	--	83	--
82-12-08	<100	--	18	<10	<12	730	<5	290	--	--	66	--
82-01-25	--	--	--	--	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
82-01-26	--	--	--	--	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--	--	--	--	--
82-12-26	210	--	34	<10	<12	260000	6	4400	--	--	84000	--
82-09-02	<100	<10	<1	<10	<12	230	6	10	<5	--	72	--
82-09-02	<100	<10	<1	<10	<12	30	5	<10	<5	--	24	--
82-09-02	<100	<10	<1	<10	<12	60	5	10	<5	--	21	--
82-04-20	<100	--	<4	<10	<12	<8	<5	50	--	<2	210	--
82-04-20	48000	--	710	20	320	88000	16	3300	--	<2	200000	--

OTTAWA COUNTY--Continued

DATE OF SAMPLE	GROSS ALPHA, SUSP. TOTAL (µg/L as U-NAT)	GROSS ALPHA, DIS- SOLVED (pCi/L as U-NAT)	GROSS BETA, DIS- SOLVED (pCi/L as 137Cs)	GROSS BETA, SUSP. TOTAL (pCi/L as 137Cs)	GROSS BETA, DIS- SOLVED (pCi/L as Sr/ 30Yt)	GROSS BETA, SUSP. TOTAL (pCi/L as Sr/ 30Yt)	RADIUM, DIS- SOLVED, PLAN- CHET COUNT (pCi/L as 226Ra)	RADIUM, DIS- SOLVED (pCi/L as 228Ra)
82-10-20	--	--	--	--	--	--	--	--
83-03-22	<.4	8.2	5.4	<.4	5.2	<.4	--	--
83-03-22	<.4	5.2	5.4	<.4	5.1	<.4	--	--
82-10-08	--	--	--	--	--	--	--	--
82-12-08	--	--	--	--	--	--	--	--
82-12-08	--	--	--	--	--	--	--	--
82-01-25	--	--	--	--	--	--	--	--
82-04-21	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--
82-01-26	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--
82-07-20	--	--	--	--	--	--	--	--
82-10-20	--	--	--	--	--	--	--	--
82-12-26	--	--	--	--	--	--	--	--
82-09-02	--	--	--	--	--	--	--	--
82-09-02	--	--	--	--	--	--	--	--
82-09-02	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--
82-04-20	--	--	--	--	--	--	--	--

POTTAWATOMIE COUNTY

LOCAL IDENTI- FIER	STATION	NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCTI- ANCE (µS/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
10N-03E-05 BBC 1	352227097010301		--	93.52	82-06-18	--	430	6.8	19.0
10N-03E-05 DDA 1	352155097000401		--	90.00	82-06-18	--	2530	7.8	19.0
10N-03E-06 BCB 1	352219097020901		--	--	82-06-17	--	944	8.4	19.5
10N-03E-06 DDD 1	352145097010601		--	111	82-06-17	--	1210	8.2	19.5
10N-03E-08 AAD 1	352139097000301		--	--	82-06-18	--	2420	7.6	18.0
10N-03E-09 AAA 1	352141096585901		--	60.00	82-06-21	--	274	5.7	19.0
10N-03E-09 BBA 1	352141096595201		--	--	82-06-21	--	952	6.6	17.0
10N-03E-09 CCB 1	352059097000001		--	58.39	82-06-18	--	963	6.6	19.0
10N-03E-09 DDD 1	352056096585901		--	30.80	82-06-18	--	745	7.1	17.0
10N-03E-10 ABA 1	352140096581601		--	--	82-06-22	--	361	6.3	19.0
10N-03E-14 CCA 1	352006096574201		--	57.65	82-06-21	--	1530	6.5	19.0
10N-03E-15 AAA 1	352046097575601		--	47.27	82-06-22	--	418	6.2	19.0
10N-03E-16 CDC 1	352000096594001		--	193	82-06-18	--	543	5.8	19.0
10N-03E-22 DDD 1	351909096580001		--	--	82-06-22	--	827	6.7	19.0
10N-03E-23 AAA 1	351956096565801		--	60.00	82-06-22	--	532	6.7	18.0
10N-03E-23 CDA 1	351915096572601		--	--	82-06-21	--	736	6.6	21.0
10N-03E-23 DAD 1	351923096565301		--	64.50	82-06-22	--	572	6.2	18.0
10N-03E-24 DCC 1	351907096561601		--	210	82-06-22	--	1290	6.7	17.0
10N-03E-25 CAC 1	351819096561501		--	60.00	82-06-22	--	955	7.1	21.0
10N-03E-26 CDD 1	351817096573001		--	--	82-06-22	--	1750	6.8	21.0
10N-04E-01 DDB 1	352152096493001		--	47.84	82-06-23	--	929	6.7	21.0
10N-04E-02 BCB 1	352220096513001		--	100	82-06-23	--	466	6.7	19.0
10N-04E-11 DAA 1	352110096502901		--	100	82-06-24	--	1350	6.7	22.0
10N-04E-12 BBB 1	352139096502301		--	64.00	82-06-24	--	452	6.5	20.5
10N-04E-13 CCD 1	352001096501901		--	120	82-06-24	--	1020	7.1	22.0
10N-04E-14 CCD 1	352000096511901		--	68.00	82-06-23	--	719	6.3	22.0
10N-04E-15 BCC 1	352026096523101		--	38.79	82-06-23	--	1010	6.8	18.5
10N-04E-19 CDC 1	351910096553001		--	31.00	82-06-22	--	417	8.3	18.0
10N-04E-20 DBC 1	351920096540601		--	63.69	82-06-23	--	818	6.9	16.5
10N-04E-27 BAA 1	351904096523401		--	97.04	82-06-23	--	529	7.2	16.0

POTTAWATOMIE COUNTY--Continued

LOCAL IDENTIFI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (µS/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
10N-04E-28 BBB 1	351905096533901	--	119	82-06-23	--	572	7.6	18.0
10N-04E-28 CCD 1	351818096532701	--	--	82-06-23	--	650	7.1	18.0
10N-04E-29 DCC 1	351818096541201	--	45.59	82-06-23	--	579	6.7	20.0
10N-04E-30 CAB 1	351836096552801	--	34.89	82-06-22	--	640	6.9	18.0
10N-04E-31 ADD 1	351753096545001	--	--	82-06-24	--	539	7.2	18.0
10N-04W-16 DDD 1	351959096523901	--	71.75	82-06-23	--	858	7.2	18.0
10N-05E-07 BCB 1	352130096492401	--	55.19	82-06-24	--	770	6.5	17.0
10N-05E-07 CCB 1	352104096492601	--	41.09	82-06-23	--	767	6.5	22.0
11N-02E-04 CCD 1	352702097055401	--	100	82-06-16	--	456	7.3	20.0
11N-02E-05 CBA 1	352718097071301	--	94.65	82-06-15	--	412	5.9	18.5
11N-02E-05 DCD 1	352658097264501	--	31.00	82-06-15	--	407	5.9	18.0
11N-02E-09 BBC 1	352647097062201	--	--	82-06-16	--	338	6.0	18.0
11N-02E-09 CBA 1	352630097061501	--	88.69	82-06-16	--	380	6.1	18.0
11N-02E-10 AAB 1	352656097042801	--	95.47	82-06-16	--	837	8.4	17.0
11N-02E-10 BBB 1	352654097051301	--	125	82-06-16	--	785	6.8	17.0
11N-02E-11 BDA 1	352642097034801	--	107	82-06-16	--	571	8.2	20.5
11N-02E-11 DAD 1	352619097023001	--	55.97	82-06-16	--	602	6.5	22.0
11N-02E-12 CDD 1	352619097032001	--	--	82-06-18	--	761	8.0	18.0
11N-02E-13 ADD 1	352540097021601	--	--	82-06-16	--	694	8.4	17.0
11N-02E-15 ADC 1	352540097043301	--	--	82-06-16	--	316	5.7	18.0
11N-02E-23 ABA 1	352511097033101	--	--	82-06-16	--	682	7.6	20.0
11N-02E-24 BCC 1	352450097031301	--	102	82-06-16	--	718	7.3	18.5
11N-02E-25 DCC 1	352330097023901	--	98.04	82-06-17	--	554	8.4	18.0
11N-02E-26 ADA 1	352407097031801	--	107	82-06-16	--	751	7.2	21.0
11N-02E-36 ACC 1	350238097230401	--	100	82-06-17	--	673	8.0	19.0
11N-03E-05 BBB 1	352233097010301	--	79.69	82-06-17	--	578	6.7	20.0
11N-03E-19 BBC 1	352459097020601	--	56.64	82-06-16	--	577	6.6	18.0
11N-03E-25 DDD 1	352330097021001	--	--	82-06-17	--	572	7.6	19.0
11N-03E-30 BBA 1	352419097015301	--	71.94	82-06-17	--	361	7.7	20.0
11N-03E-30 CDC 1	352330097014601	--	--	82-06-17	--	450	8.2	17.0

POTTAWATOMIE COUNTY--Continued

LOCAL IDENTI- FIER	STATION NUMBER	GEO- LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE- CIFIC CON- DUCT- ANCE (μ S/cm)	pH (STAND- ARD UNITS)	TEMPER- ATURE (DEG C)
11N-03E-31 ADB 1	352313097011901	--	--	82-06-11	--	251	6.7	17.0
11N-03E-31 ADD 1	352302097010601	--	--	82-06-17	--	204	6.2	20.0
11N-04E-13 CCC 1	352513096502701	--	50.00	82-06-24	--	290	5.8	18.0
11N-04E-14 AAB 1	352603096494001	--	99.86	82-06-24	--	789	6.7	19.0
11N-04E-14 ABB 1	352600096505501	--	66.86	82-06-24	--	682	7.6	17.0
11N-04E-15 AAA 1	352600096513201	--	100	82-06-24	--	736	7.0	18.0
11N-04E-22 AAA 1	352507096514101	--	110	82-06-24	--	425	6.2	18.0
11N-04E-22 CCB 1	352429096523401	--	40.00	82-06-28	--	742	6.6	18.5
11N-04E-27 ABB 1	352414096520201	--	98.36	82-06-24	--	382	6.6	19.0
11N-04E-34 BAB 1	352327096522001	--	80.34	82-06-24	--	578	6.9	17.0
11N-05E-13 CCD 1	352552096434601	--	239	82-06-29	--	742	6.8	19.0
11N-05E-14 CAD 1	352525096444301	--	--	82-06-29	--	335	5.8	19.0
11N-05E-19 CDA 1	352428096485601	--	51.00	82-06-25	--	515	6.2	21.0
11N-05E-20 CCD 1	352425096480901	--	43.11	82-06-25	--	992	6.6	18.0
11N-05E-21 ABA 1	352509096463701	--	--	82-06-28	--	455	5.7	19.0
11N-05E-22 ACA 1	352453096453601	--	--	82-06-29	--	818	7.8	19.5
11N-05E-23 BBB 1	352507096451101	--	76.00	82-06-29	--	472	7.3	20.0
11N-06E-17 CBA 1	352535096415301	--	--	82-06-29	--	811	6.6	19.0
11N-06E-27 ACD 1	352353096391401	--	89.89	82-06-29	--	420	7.1	19.0

SEMINOLE COUNTY

08N-08E-17 BAA 1	351025096291201	--	99.72	82-07-20	--	630	8.0	19.0
11N-06E-19 BCC 1	352451096432301	--	196	82-06-30	--	1120	7.5	19.0
11N-06E-34 ABC 1	352321096394001	--	--	82-06-30	--	1020	7.1	17.0
11N-06E-35 BBB 1	352326096390801	--	--	82-06-30	--	768	7.0	19.0
11N-07E-14 CBB 1	352540096324901	--	100	82-07-01	--	317	5.7	19.0
11N-07E-23 AAA 1	352512096314901	--	112	82-07-01	--	556	5.7	18.5
11N-07E-27 CCD 1	352331096334101	--	--	82-07-01	--	257	6.1	18.0
11N-07E-28 CDD 1	352345096342601	--	--	82-06-30	--	518	6.8	18.0
11N-07E-28 DDA 1	352340096335801	--	--	82-07-01	--	511	6.7	19.0
11N-07E-35 AAA 1	352327096314901	--	300	82-07-01	--	650	6.6	18.0

SEQUOYAH COUNTY

LOCAL IDENTIFIER	STATION NUMBER	GEO-LOGIC UNIT	DEPTH OF WELL, TOTAL (FEET)	DATE OF SAMPLE	TIME	SPE-CIFIC CONDUCTANCE (µS/cm)	pH (STANDARD UNITS)	TEMPERATURE (DEG C)
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11N-26E-07 ABA 1	352656094352401	--	--	84-06-20	--	34	5.5	17.0
11N-27E-09 AAA 1	352656094264001	--	--	84-06-20	--	99	6.6	18.0

STEPHENS COUNTY

01N-05W-20 ADC 1	343241097442801	--	--	84-08-14	--	1200	7.3	25.0
02N-04W-08 ADC 1	343939097381001	--	--	84-08-15	--	685	7.6	24.0
02N-04W-08 BDC 1	343939097384101	--	--	84-08-16	--	849	7.3	23.0
02N-04W-08 DBB 1	343932097382501	--	--	84-08-16	--	868	7.0	22.0
02N-07W-03 DDC 1	344005097550001	--	--	84-08-15	--	615	8.0	22.0

WOODWARD COUNTY

23N-20W-23 DBA 1	362716099181901	--	--	84-04-19	--	716	7.5	15.0
23N-20W-23 DCD 1	362657099181901	--	--	84-04-19	--	568	7.6	15.0
23N-20W-24 BBD 1	362736099174701	--	--	84-04-19	--	435	8.3	15.0
26N-18W-28 CBD 1	364205099085301	--	--	84-04-20	--	1330	7.8	14.0
26N-18W-28 CCB 1	364159099090101	--	--	84-04-20	--	1380	7.8	13.0
26N-18W-28 CCD 1	364152099085301	--	--	84-04-20	--	2650	8.1	10.0