

# **SELECTED SURFACE-WATER, GROUND-WATER, AND TRACER DATA FROM THE ELKHORN AND PLATTE RIVERS AND THE ALLUVIUM NEAR ASHLAND, EASTERN NEBRASKA, 1991–97**

*By I.M. Verstraeten, R.L. Atkeson, and C.P. Stanton*

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## CONVERSION FACTORS

Multiply	By	To obtain
acre	4,047	square meter
foot (ft)	0.3048	meter
mile (mi)	1.609	kilometer
million gallons per day (Mgal/d)	3,785	cubic meter per day
pound, avoirdupois (lb)	0.4536	kilogram

# SELECTED SURFACE-WATER, GROUND-WATER, AND TRACER DATA FROM THE ELKHORN AND PLATTE RIVERS AND THE ALLUVIUM NEAR ASHLAND, EASTERN NEBRASKA, 1991-97

By I.M. Verstraeten, R.L. Atkeson, and C.P. Stanton

## ABSTRACT

This report contains data from 9 surface-water and 41 ground-water sites that were collected along the Elkhorn and Platte Rivers from September 1991 through May 1997 in and adjacent to the City of Lincoln municipal well field located near Ashland, eastern Nebraska. This report also contains data collected during six tracer studies conducted in the Elkhorn and Platte Rivers in 1995 and 1996. Hydrograph data from three surface-water sites, and collector-well and water-quality-data-logger data also are included in this report. Water-quality information included in this report are: field measurements and concentrations of (1) nutrients, (2) major ions, (3) trace elements, (4) pesticides and selected metabolites, (5) volatile, semivolatile, and explosive organic compounds, and (6) selected derivatives and radionuclides.

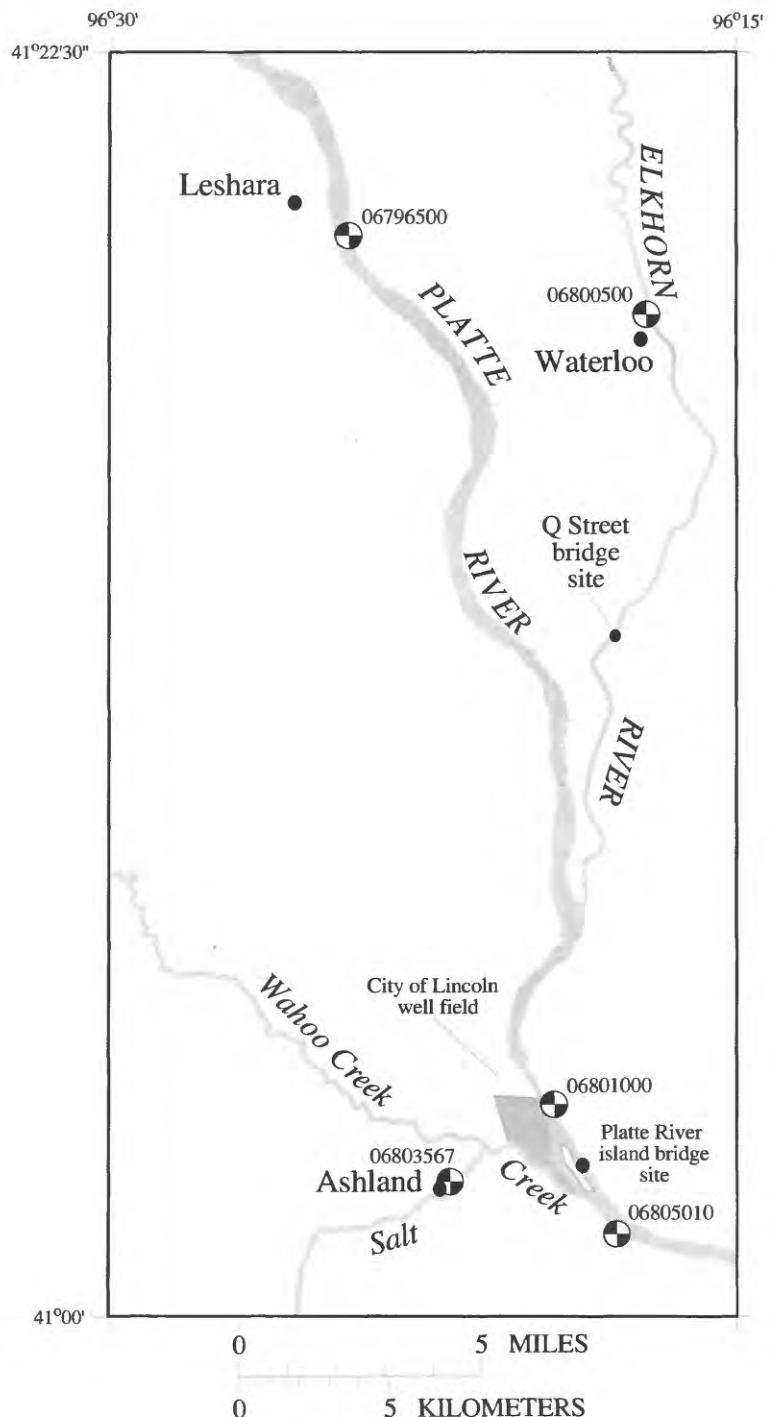
Selected data were used for two interpretive studies. The overall objectives of these studies were to: (1) evaluate travel time and degree of mixing of contaminants in the Elkhorn and Platte Rivers; (2) relate the concentration of selected herbicides and metabolites in the river to the quality of water from the collector wells during two runoff events; and (3) evaluate the dynamics of hydraulic interaction between the river and the aquifer through differential management of the laterals of the collector wells. Water samples from three "early-warning" monitoring wells (M90-1, M90-2, and M90-4) (fig. 4) were collected and analyzed because several miles upgradient (ground-water flow generally is towards the southeast), northwest of the City of Lincoln well field, a Superfund site exists where volatile and explosive organic compounds have contaminated the unsaturated zone and the ground water. Other data were collected to provide generalized background surface- and ground-water-quality information.

## INTRODUCTION

Water-quantity and water-quality data from surface-water and ground-water sites in and adjacent to the Elkhorn and Platte Rivers have been collected as part of yearly cooperative agreements between the City of Lincoln and the U.S. Geological Survey (USGS) from 1991 through 1997. These data were collected to provide background information on the quality of the surface-water and ground-water systems in and adjacent to the City of Lincoln well field near Ashland, Nebraska, and to aid the City of Lincoln with the management of the municipal well field (figs. 1-4).

## Description of Study Area

The City of Lincoln well field contains 40 active production wells and 24 monitoring and observation wells in an area of 400 acres near Ashland, in eastern Nebraska (figs. 1-4). The well field stretches for several miles along the Platte River. The well field generally provides all the water supply of the City of Lincoln, which has a population of about 220,000 residents. The production wells are completed in a mixture of Quaternary-age alluvial sediments consisting of gravel, sand, silt, and some clay underlain by Cretaceous-age shale and sandstone at a depth of about 90 feet.



AREA  
SHOWN

Explanation

● Gaging station

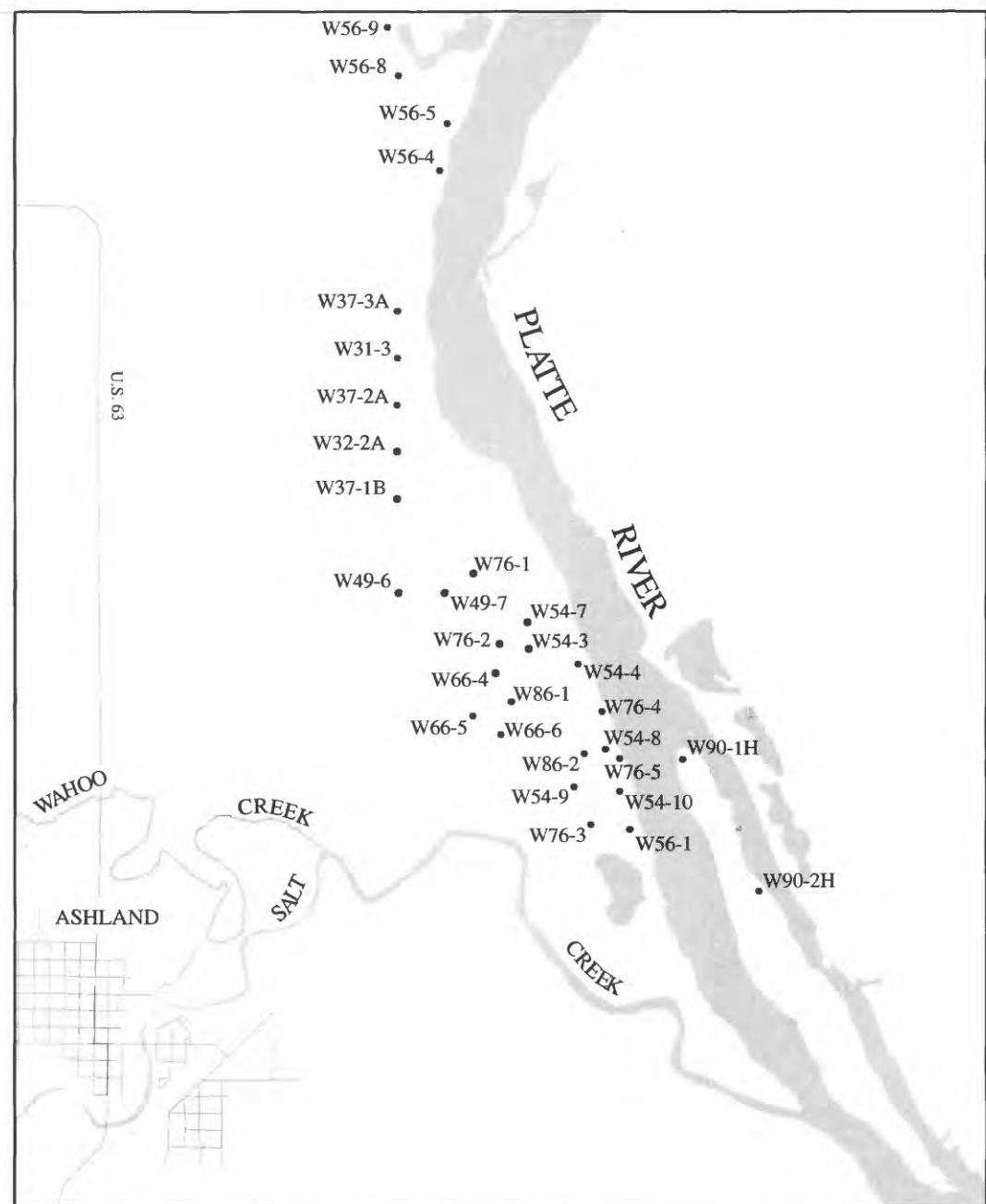
**Figure 1.** Location of study area and surface-water sampling sites.

**2 Selected Surface-Water, Ground-Water, and Tracer Data from the Elkhorn and Platte Rivers and the Alluvium near Ashland, Eastern Nebraska, 1991–97**

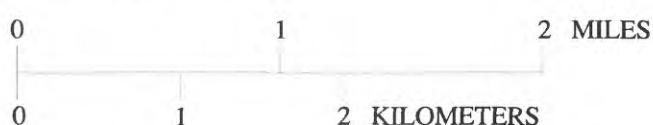
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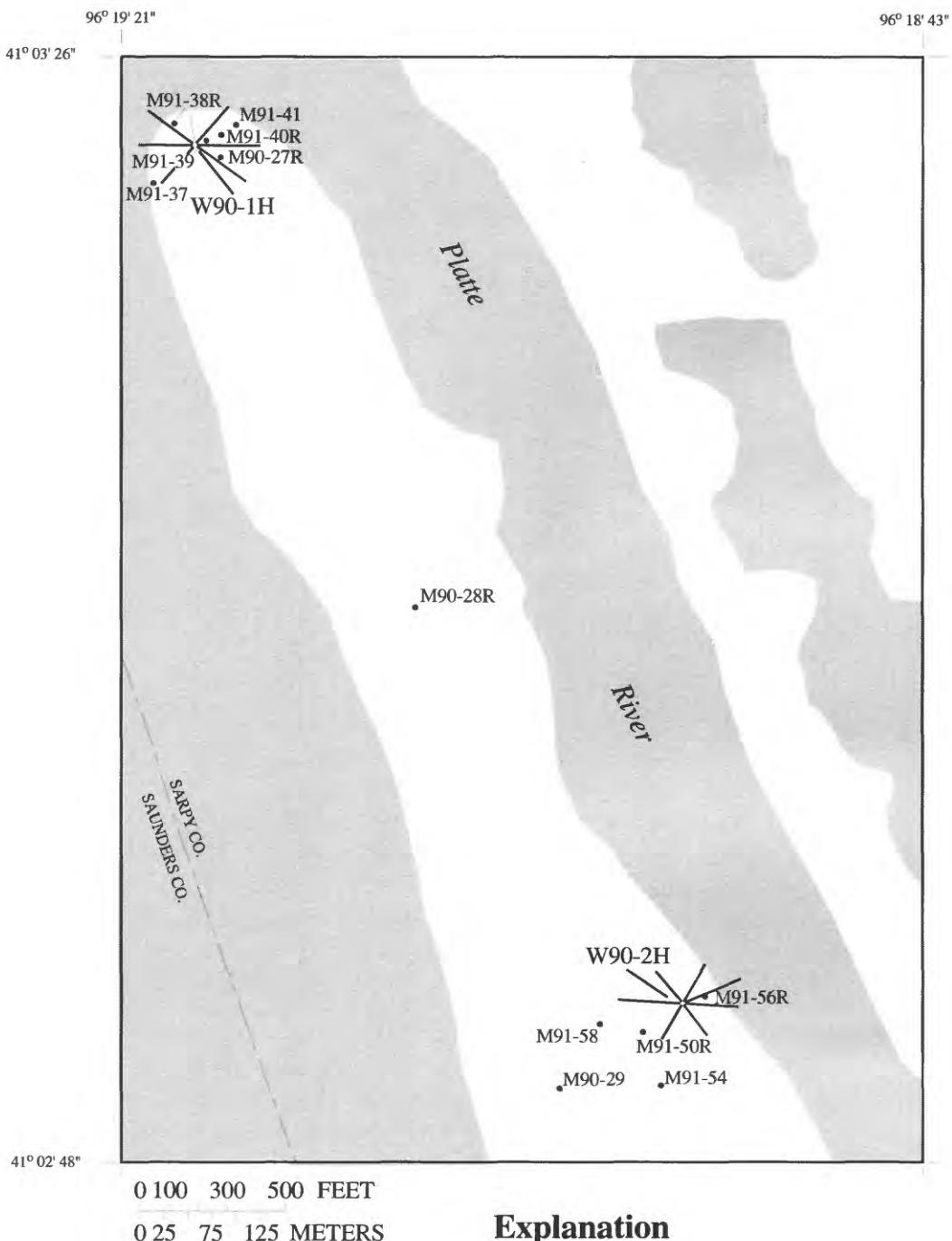
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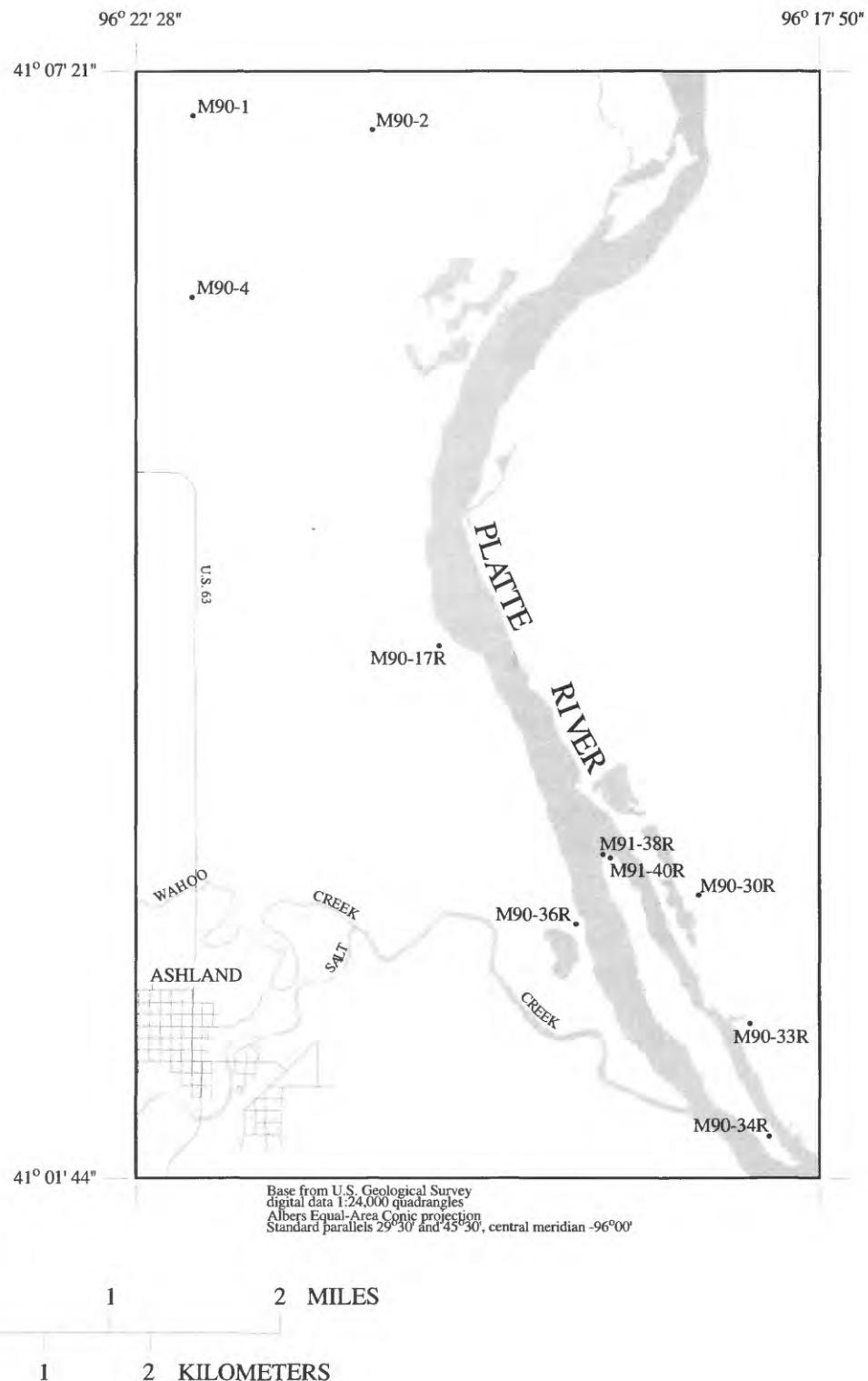
Base from U.S. Geological Survey  
7.5 Minute Series Ashland East quadrangle  
Universal Transverse Mercator projection



**Figure 2.** Locations of selected City of Lincoln production wells near Ashland, Nebraska.



**Figure 3.** Locations of City of Lincoln collector wells and selected monitoring wells on Platte River island near Ashland, Nebraska.



**Figure 4.** Locations of City of Lincoln monitoring wells near Ashland, Nebraska.

The Ranney collector wells, W90-1H and W90-2H (fig. 2), are on an island in the Platte River within the well field. The collector wells consist of a main caisson and seven horizontal laterals constructed at a depth of about 80 feet (I.M. Verstraeten, written commun., 1998) and have a capacity of approximately 13,000 million gallons per day (Mgal/d). The use of these collector wells has made the City water supply more vulnerable to herbicides present in surface water (Verstraeten, Thurman, and Carr, 1995) and has made the public water supply more vulnerable to potential contaminant spills upstream because of enhanced ground-water/surface-water interaction.

## Purpose and Scope

This report documents all data collected near the City of Lincoln well field from September 1, 1991, through June 1, 1997, and analyzed by the USGS. This report contains the following surface- and ground-water data: selected surface-water-quality data from the Elkhorn and Platte Rivers (fig. 1); ground-water-quality data from selected production wells (figs. 2 and 3) and selected monitoring wells (fig. 4) at and near the City of Lincoln well field; hydrographs for two locations on the Platte River (Leshara and Ashland) and one location on the Elkhorn River (Waterloo); temperature and specific conductance data collected from the water-quality data loggers installed in monitoring wells M90-34R and M91-40R (fig. 4); and, conservative tracer concentrations in surface water of Platte and Elkhorn Rivers and ground water in collector wells. A list of the sites from which water-quantity or water-quality data were collected is presented in table 1. Depending upon the study objectives, water-quality samples were analyzed for selected nutrients; major ions; trace elements; pesticides and selected metabolites; volatile, semivolatile, and explosive organic compounds, and selected derivatives; or radionuclides. Because of the diverse objectives for collecting data and the numerous types of analyses performed, a summary of the results of these analyses is not provided in this report.

## Acknowledgments

The authors gratefully thank City of Lincoln personnel for the help provided in the collection of water samples from the collector wells, the help provided during the slug injections of the tracer, and the specific

management of the well field near Ashland as needed to meet project objectives.

## DATA COLLECTION

Hydrographs were plotted for three river stations: the Platte River near Ashland, the Platte River near Leshara, and the Elkhorn River at Waterloo, (figs. 5-7 presented in the results section). These data indicate the timing of runoff events and the percent of Platte River water that originates in the Elkhorn River watershed. The hydrographs for these sites were computed for the 1994 (fig. 5), 1995 (fig. 6), and 1996 (fig. 7) Water Years. The daily mean discharges were computed by applying the daily mean stages to stage-discharge curves created for each location. If the stage-discharge relation was subject to change because of frequent or continual change in the physical features of the rivers, the daily mean discharge was determined by the shifting-control method. Correction factors based on the individual discharge measurements and notes of the personnel making the measurements were applied to the stage before the discharges were determined from the rating curves.

Surface-water samples were collected from the Elkhorn and Platte Rivers to evaluate the degree of mixing between these two rivers. Depth-integrated samples were collected at several equal-discharge verticals as a measure of chemical distribution. Composite samples also were collected using depth-integrated sampling procedures in the Elkhorn River, the Platte River, and Salt Creek as a measure of mean chemical composition. Methods for collecting surface-water-quality data are described by Wells and others (1990). Samples were collected using a US D-74, 64-pound sampler, in which a quart glass sample container was enclosed. Specific conductance, pH, water temperature, and dissolved oxygen were measured in the field using either a representative aliquot of water and portable meters or a water-quality data logger. The six sampling sites included Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, Salt Creek near Waverly, Salt Creek at Ashland, and Platte River near South Bend (fig. 1 or table 1). Surface-water samples were analyzed for selected nutrients, major ions, trace elements, pesticides and selected metabolites, semivolatile organic compounds, or radionuclides (appendix A, tables A-1 through A-3) depending upon the site and the study objectives.

**Table 1.** List of surface-water sites, and selected City of Lincoln production, collector, and monitoring wells near Ashland, Nebraska, from which discharge, water-level, water-quality, or tracer data have been collected from September 1991 through May 1997

[Tracer site: site where tracer was injected or measured; NA, not applicable; Equipment: D, Data logger; G, Satellite connection; P, Pump; Q, Water-quality data logger; T, Transducer]

Site name	Site identification number	Site type	Equipment at monitoring sites
Platte River near Leshara	06796500	Surface water, tracer, and gage	NA
Elkhorn River at Waterloo	06800500	Surface water, tracer, and gage	NA
Elkhorn River at Q Street bridge	06800800	Tracer site	NA
Platte River near Ashland	06801000	Surface water, tracer, and gage	NA
Platte River at island bridge	NA	Tracer site	NA
Salt Creek near Waverly (site outside study area 23 river miles above the mouth of Salt Creek)	06803525	Surface water and gage	NA
Salt Creek at Greenwood (site outside study area 13 river miles above the mouth of Salt Creek)	06803555	Gage	NA
Salt Creek at Ashland	06803567	Surface water	NA
Platte River near South Bend	06805010	Surface water and tracer	NA
W90-2H	410254096185501	Production well, Ranney collector well, and tracer	NA
W90-1H	410322096191701	Production well, Ranney collector well, and tracer	NA
W56-1	410307096193201	Production well	NA
W76-3	410308096194301	Production well	NA
W54-10	410315096193501	Production well	NA
W54-9	410316096194801	Production well	NA
W76-5	410322096193501	Production well	NA
W86-2	410323096194501	Production well	NA
W54-8	410324096193901	Production well	NA
W66-6	410327096200901	Production well	NA
W66-5	410331096201701	Production well	NA
W76-4	410332096194001	Production well	NA
W86-1	410334096200601	Production well	NA
W66-4	410341096201101	Production well	NA
W54-4	410342096194701	Production well	NA
W54-3	410347096200101	Production well	NA
W76-2	410347096201001	Production well	NA
W54-7	410352096200201	Production well	NA
W49-7	410358096202601	Production well	NA
W49-6	410358096203901	Production well	NA
W76-1	410402096201801	Production well	NA
W37-1B	410418096203901	Production well	NA
W32-2A	410428096203901	Production well	NA

**Table 1.** List of surface-water sites, and selected City of Lincoln production, collector, and monitoring wells near Ashland, Nebraska, from which discharge, water-level, water-quality, or tracer data have been collected from September 1991 through May 1997--Continued

Site name	Site identification number	Site type	Equipment at monitoring sites
W37-2A	410437096203901	Production well	NA
W31-3	410447096203901	Production well	NA
W37-3A	410457096203901	Production well	NA
W56-4	410527096202701	Production well	NA
W56-5	410537096202501	Production well	NA
W56-8	410547096203901	Production well	NA
W56-9	410557096204001	Production well	NA
M90-34R	410159096181001	Monitoring well	DTQP
M90-33R	410233096181801	Monitoring well	P
M90-36R	410303096192901	Monitoring well	DGTP
M90-30R	410312096183901	Monitoring well	DGTP
M91-38R	410324096191801	Monitoring well	DTP
M90-17R	410427096202501	Monitoring well	DGTP
M91-40R	410323096191501	Monitoring well	Q
M90-4	410612096220601	Monitoring well	P
M90-2	410703096205301	Monitoring well	P
M90-1	410707096220601	Monitoring well	P

Representative ground-water samples were collected from 31 production wells of the City of Lincoln northern well field near Ashland (figs. 2 and 3; table 1) including the two collector wells (W90-1H and W90-2H) located on an island in the Platte River near Ashland, Nebraska (fig. 3), and nine monitoring wells (M90-1, M90-2, M90-4, M90-17R, M90-30R, M90-33R, M90-34R, M90-36R, and M90-38R) (fig. 4) also near or in the City of Lincoln well field (table 1). Representative ground-water samples were collected in accordance with procedures described by Verstraeten and Ellis (1995, p. 26). No samples were collected from M91-40R.

Water-quality samples were analyzed for selected nutrients; major ions; trace elements; pesticides and metabolites; volatile, semivolatile, and explosive organic compounds or derivatives; and radionuclides (appendix A, tables A-4 through A-13), depending upon the site and study objectives. In addition, temperature and specific conductance data were collected from the water-quality data loggers installed in monitoring wells M90-34R and M91-40R from 1994 through 1996.

Standard USGS procedures were used for most laboratory analyses. Analyses were done at the USGS National Water Quality Laboratory (NWQL) in Arvada, Colorado, in accordance with the standard methods described by Fishman and Friedman (1989), except for analyses of uranium, tritium, radon, triazine herbicides, and explosive organic compounds and selected derivatives. The analyses for uranium were done in accordance with the method described by Thatcher and others (1977) at a USGS laboratory in Reston, Virginia. The analyses for tritium were done using an electrolytic enrichment gas counting method at the University of Miami. The analyses for radon ( $Rn^{222}$ ) were done by scintillation at the USGS NWQL (Whittaker and others, 1989). The analyses for triazine herbicides were performed by the USGS laboratory in Lawrence, Kansas, and by the USGS NWQL using gas chromatography-mass spectrometry analyses (Zaugg and others, 1995). The analyses for the explosive organic compounds and selected derivatives were done using the U.S. Environmental Protection Agency Method 8330 by high performance liquid chromatography (HPLC) at Quanterra Analytical Services, Arvada, Colorado. The values reported represent the water-

quality conditions at the time of sampling consistent with available sampling techniques and methods of analysis.

The mixing and travel-time properties of the Elkhorn River and the Platte River water were analyzed by injecting a conservative tracer into the Elkhorn River and measuring the spatial and temporal distribution of the tracer concentration. The distribution of dye was measured downstream from the injection sites on the Elkhorn River and above and below the City of Lincoln well field on the Platte River. The tracer used for this analysis was a 20-percent solution of fluorescent Rhodamine WT dye. Three constant-rate injections (I.M. Verstraeten, written commun., 1998) (appendix B, tables B-1 through B-3) and three slug injections (appendix B, tables B-4 through B-6) with Rhodamine WT were performed in 1995 and 1996 (I.M. Verstraeten, written commun., 1998). Samples were collected by lowering a 40-mL glass vial into the Elkhorn River at Q Street bridge and Platte River near Ashland and South Bend. Samples were collected either from the midpoint of discharge of the Elkhorn River or from 10 equally spaced distances, called verticals. The concentration of dye in each sample was analyzed with a fluorometer in accordance with procedures described by Wilson, Cobb, and Kilpatrick (1986) in the laboratory of the USGS Nebraska District office.

Replicate samples and equipment blanks were collected during the surface-water, ground-water, and tracer collection efforts for quality assurance and quality control. These data are included in the tables and are identified as quality-assurance samples. Replicate samples were collected, processed, and submitted for analysis in the same manner as the regular sample. They were collected within 1 to 5 minutes of the regular sample. Equipment blanks were collected by processing deionized or organic-free water through the sampling equipment and, if applicable, filtering equipment. They were submitted for analysis in the same manner as the regular sample. In addition, other quality-assurance and quality-control techniques were used by the USGS and contract laboratories to ensure reliable, precise, and accurate analytical data in accordance with Jones (1987).

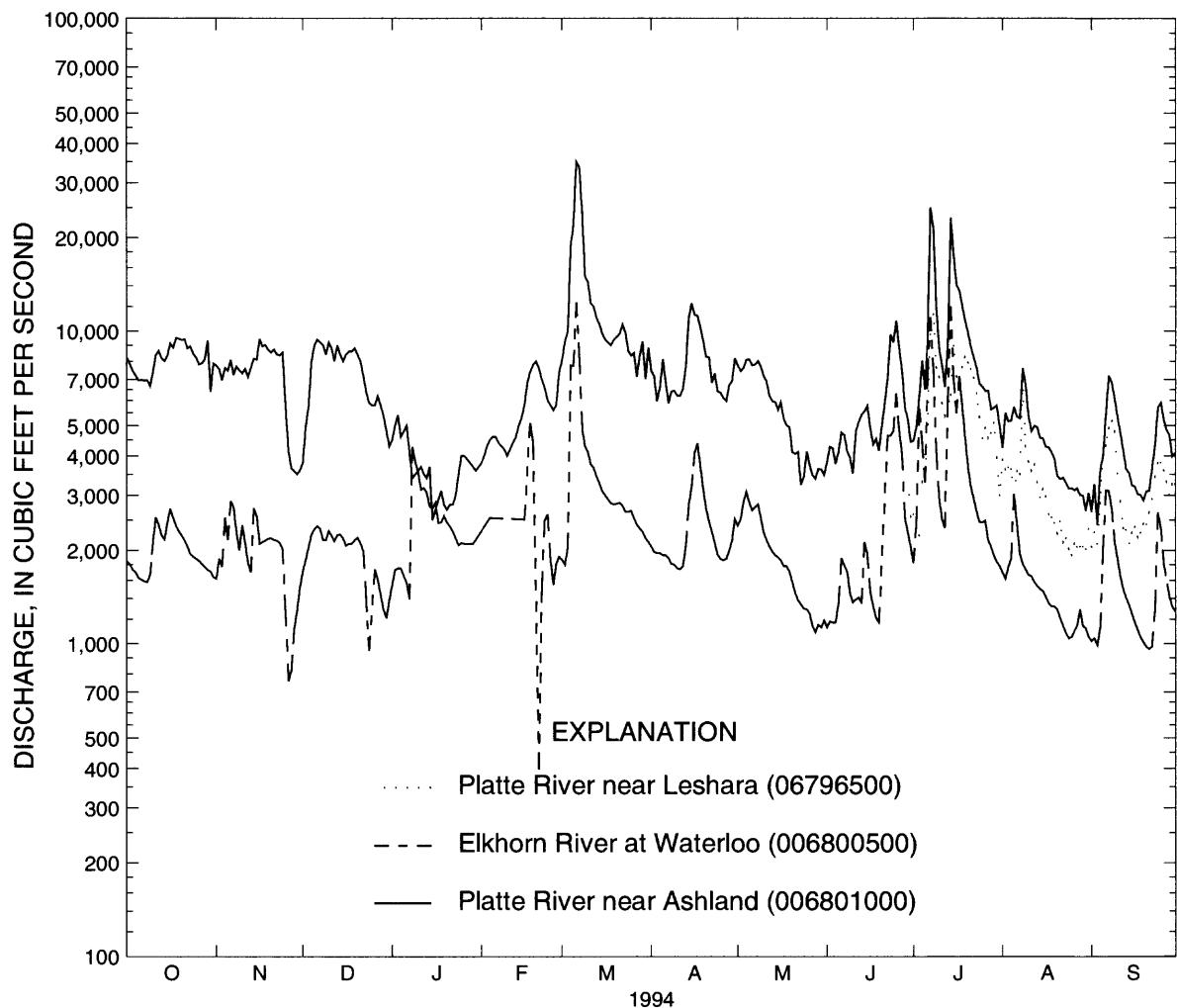
## **WATER-QUANTITY, WATER-QUALITY, AND TRACER DATA**

Discharge measurements for the Platte River near Leshara and Ashland and the Elkhorn River at

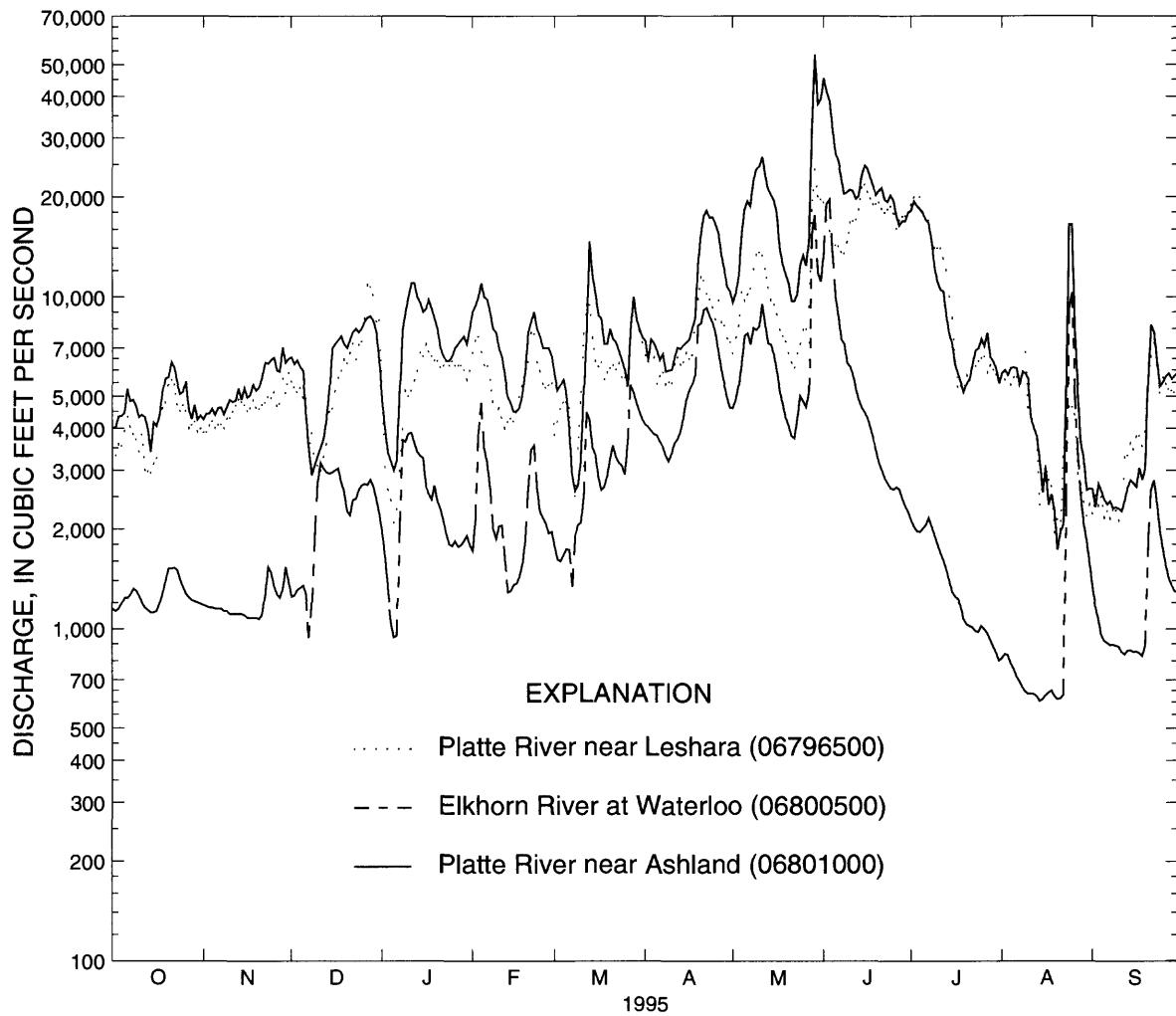
Waterloo for Water Years 1994 (fig. 5), 1995 (fig. 6), and 1996 (fig. 7) are presented as hydrographs. Temperature and specific-conductance measurements for ground water collected beneath the Platte River island (fig. 4) are presented in figure 8. The operating records for collector wells W90-1H and W90-2H and the discharge measurements for the surface-water sites Platte River near Ashland and Salt Creek at Greenwood (located outside the study area), from May 1994 through December 1996, also are presented in figure 8. Profiles of concentrations of dissolved oxygen, nitrite and nitrate, nitrite, ammonia, orthophosphate, atrazine, deethylatrazine, deisopropyl-atrazine, cyanazine, and metolachlor with distance in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River at Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, September 13 and 14, 1994, and May 24, 1995 are presented in figures 9 through 18. Distances shown in these figures always are measured from the left bank looking downstream.

The water-quality data analyzed at the USGS NWQL in Arvada, Colorado, are in appendix A-1 through A-13 on diskettes in the back of this report. The surface-water-quality data are presented in downstream order by date and time. The ground-water-quality data are listed according to site identification number, derived from the latitude and longitude of the locations of these wells, by date, and by time. The results of the three constant-rate and three slug injections of Rhodamine WT dye are in appendix B, tables B-1 through B-6.

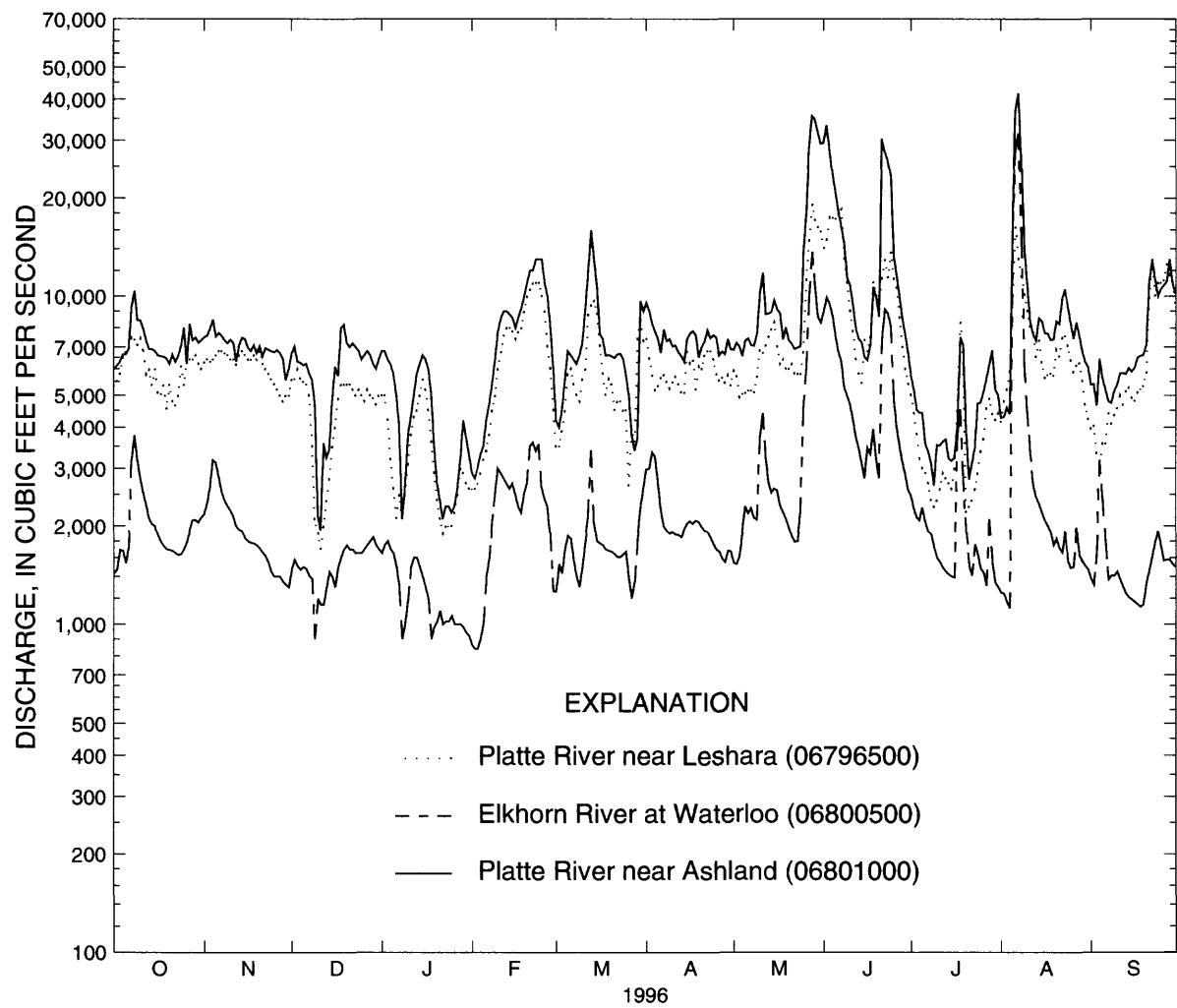
The analytical results of the replicate samples show that reasonable consistency exists among the analyses of the replicate pairs. The analytical results of the equipment blanks indicate that external contamination did not substantially contribute to the analytical results presented in this report.



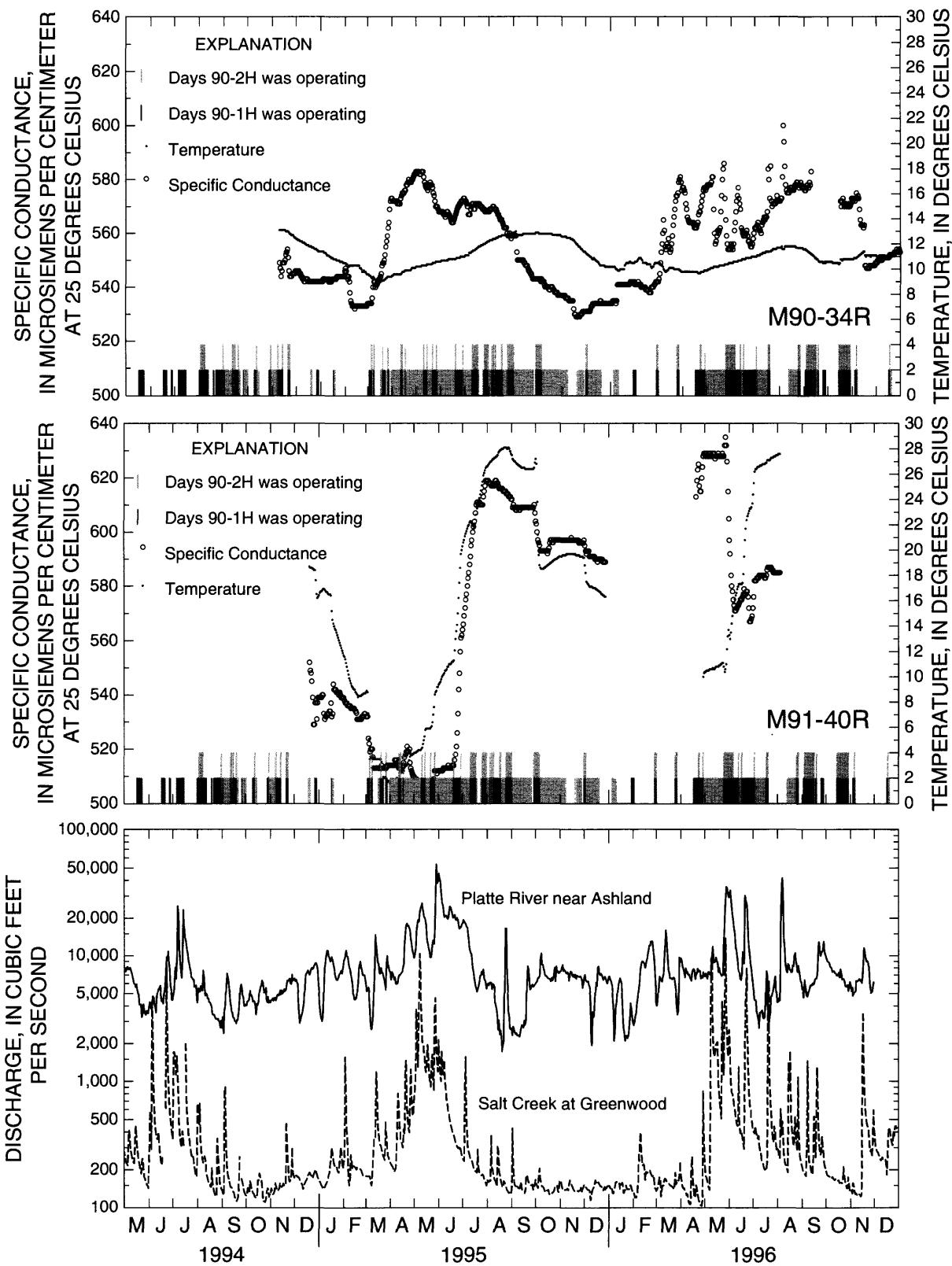
**Figure 5.** Discharge of the Platte River near Leshara and Ashland and of the Elkhorn River at Waterloo, in Water Year 1994.



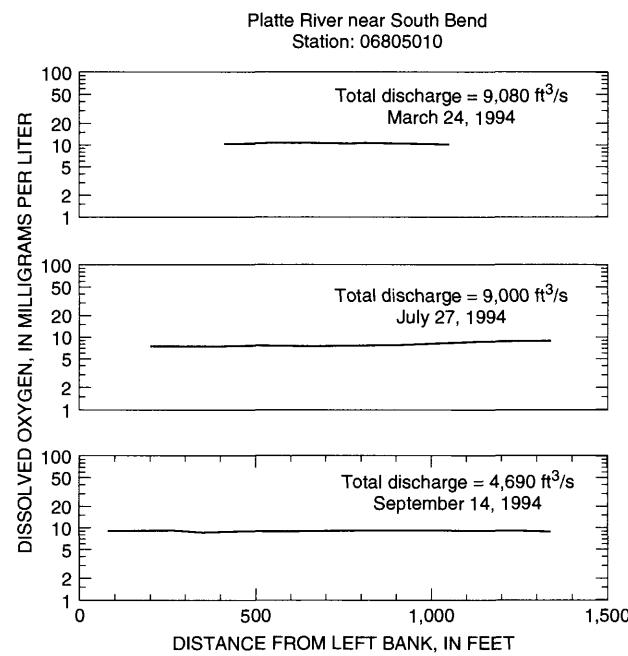
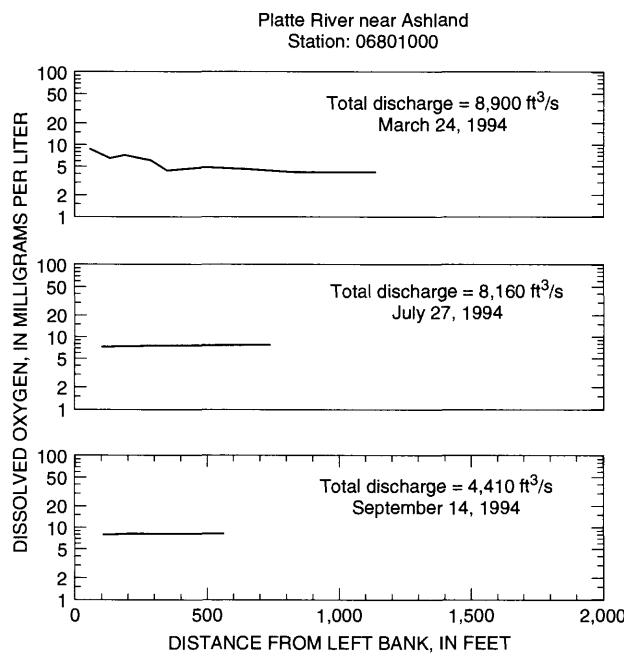
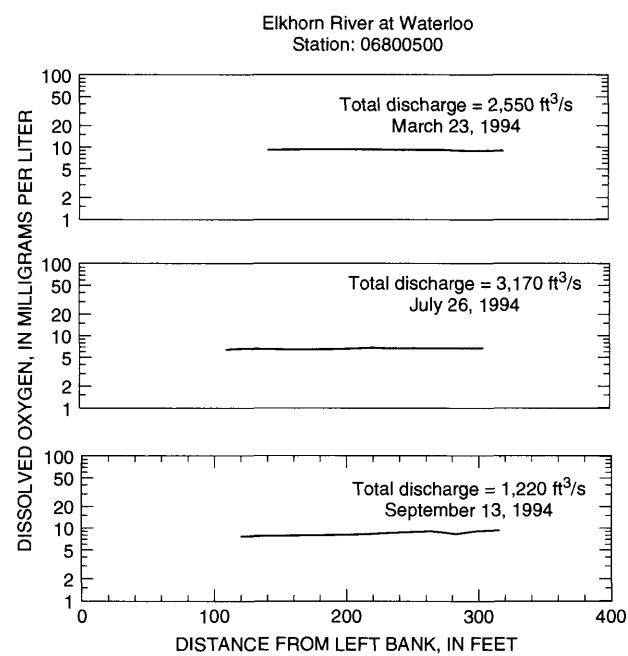
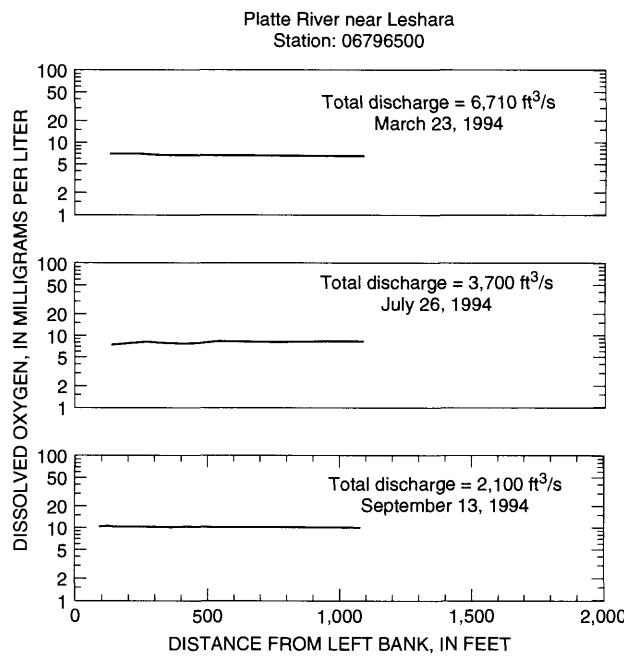
**Figure 6.** Discharge of the Platte River near Leshara and Ashland and of the Elkhorn River at Waterloo, in Water Year 1995.



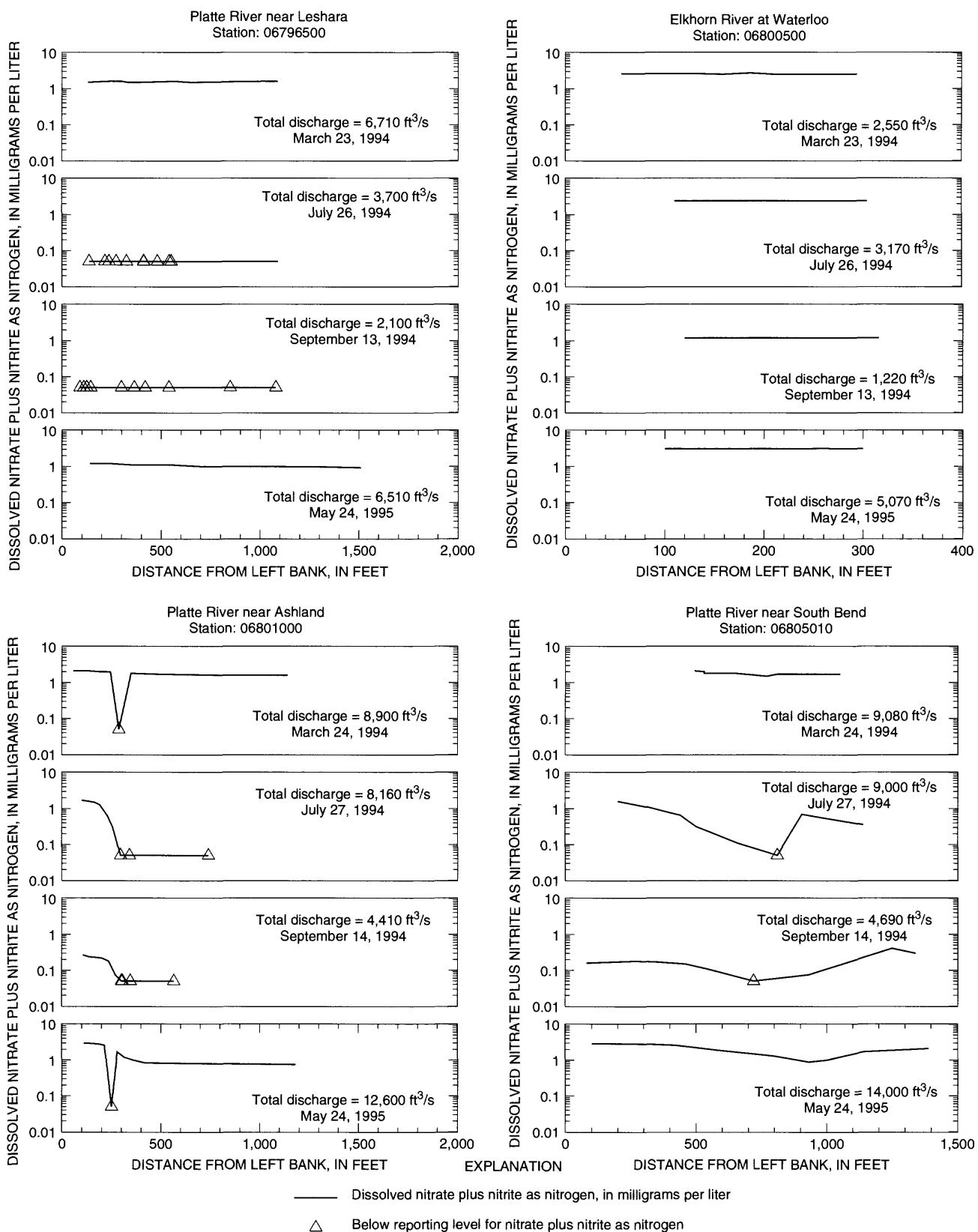
**Figure 7.** Discharge of the Platte River near Leshara and Ashland and of the Elkhorn River at Waterloo, in Water Year 1996.



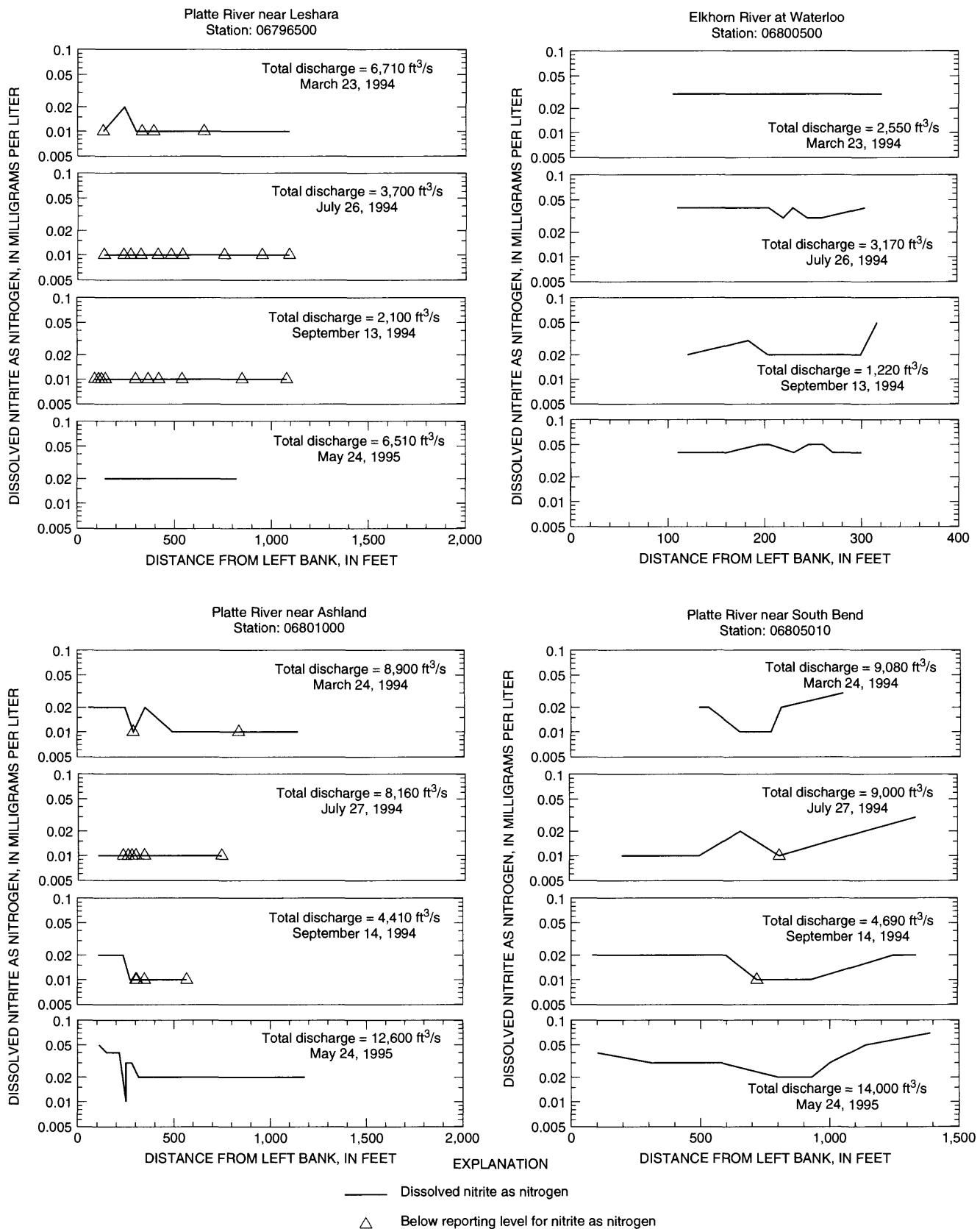
**Figure 8.** Temperature and specific conductance collected from the water-quality data loggers installed in City of Lincoln monitoring wells M90-34R and M-91-40R, operation of City of Lincoln collector wells near Ashland, Nebraska, and discharge of Platte River near Ashland and Salt Creek at Greenwood, May 1994 through December 1996.



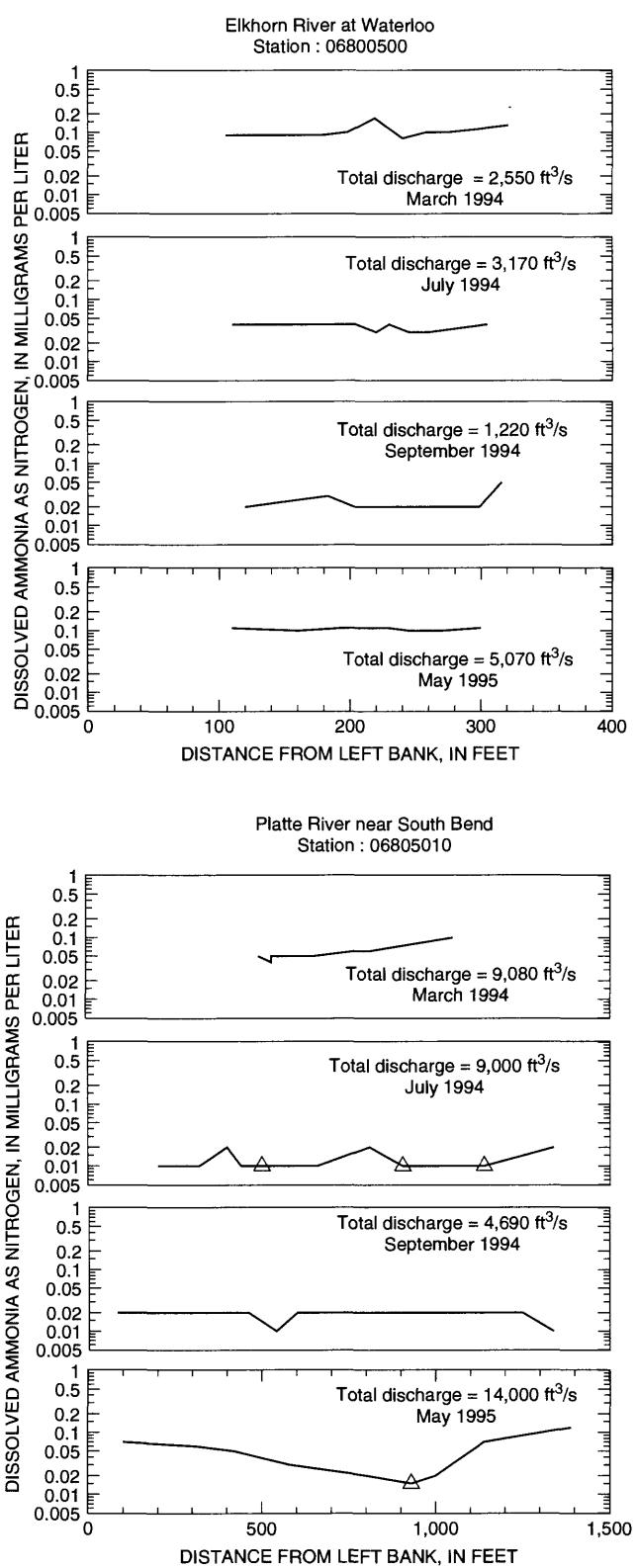
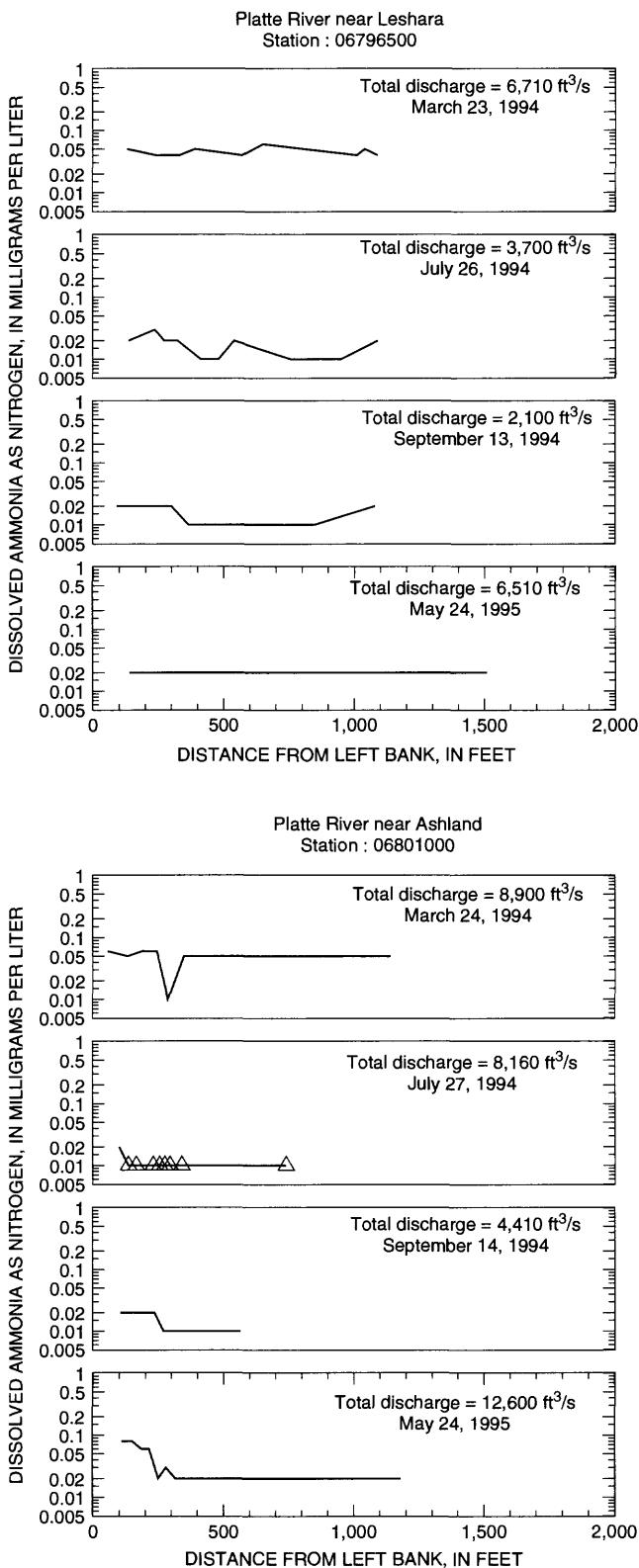
**Figure 9.** Concentrations of dissolved oxygen in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, September 13 and 14, 1994, and May 24, 1995.



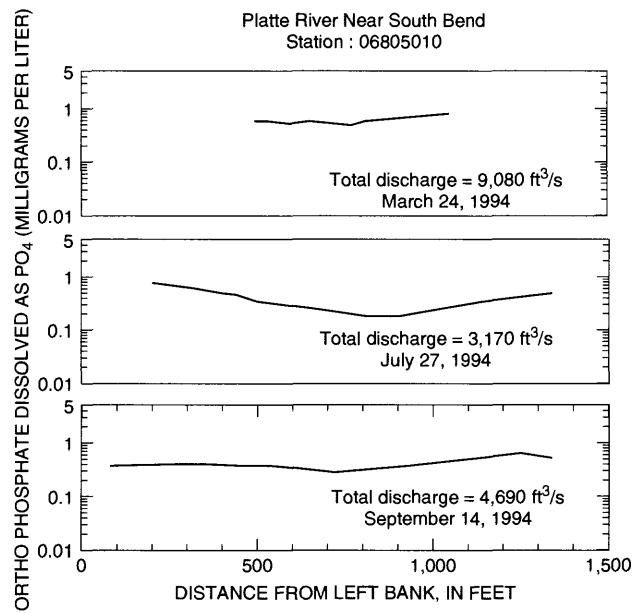
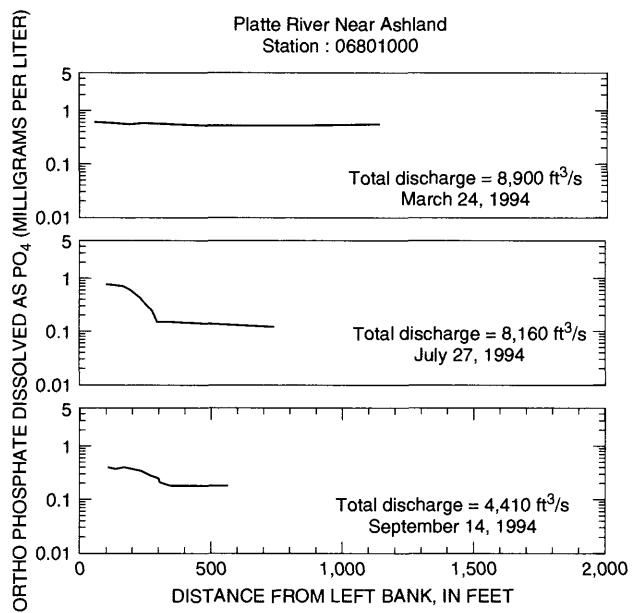
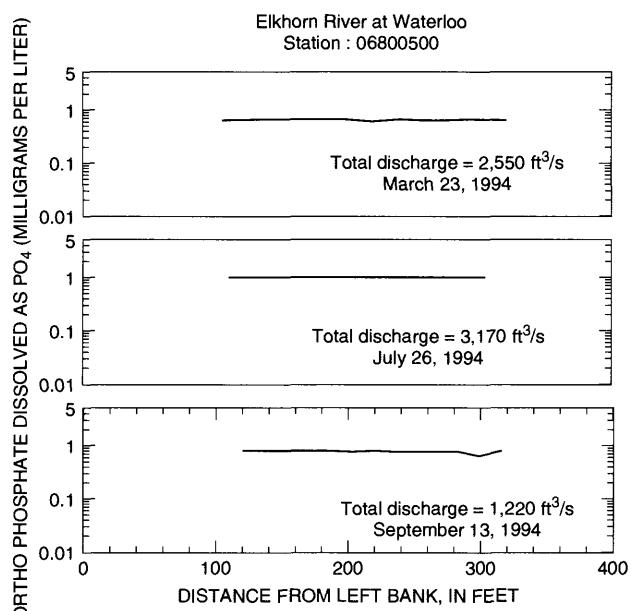
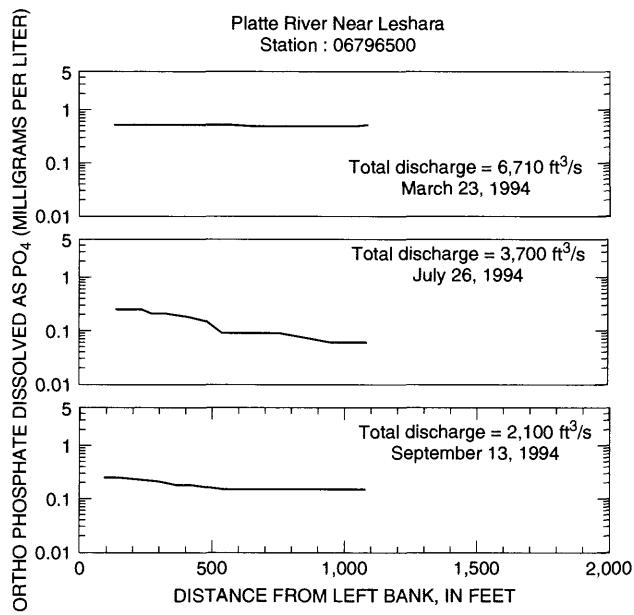
**Figure 10.** Concentrations of nitrite and nitrate in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, September 13 and 14, 1994, and May 24, 1995.



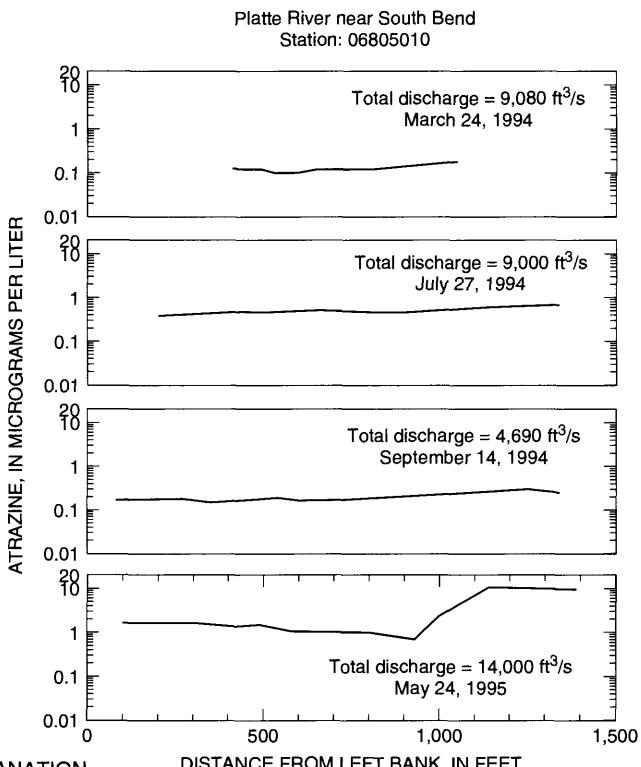
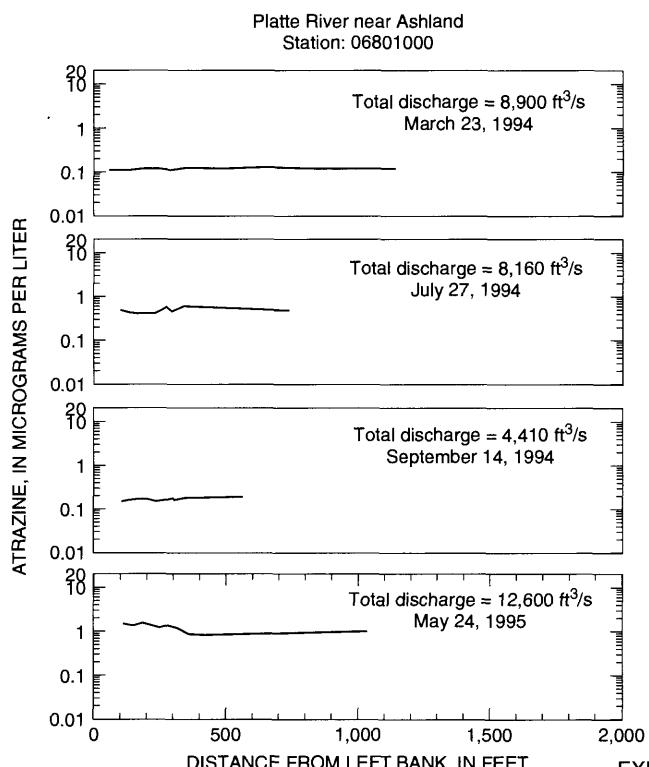
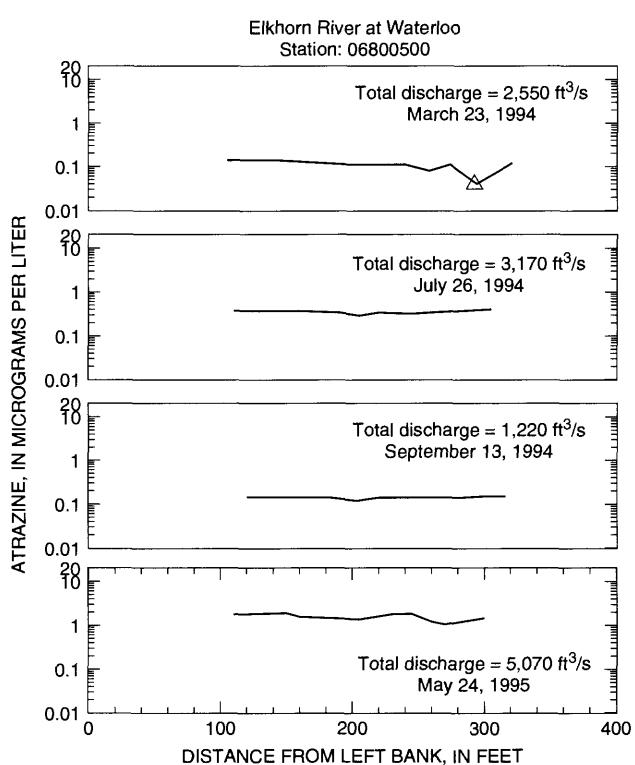
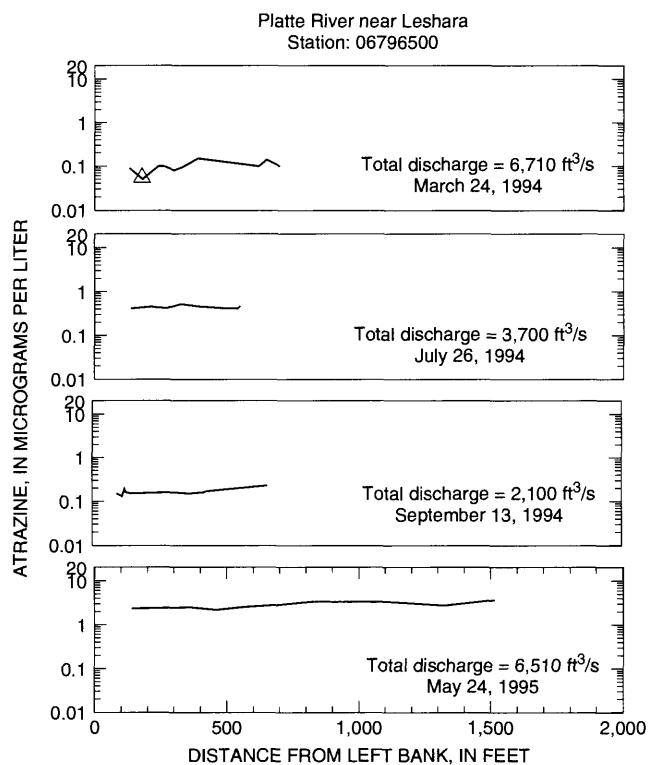
**Figure 11.** Concentrations of nitrite in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, September 13 and 14, 1994, and May 24, 1995.



**Figure 12.** Concentrations of ammonia in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, September 13 and 14, 1994, and May 25, 1995.



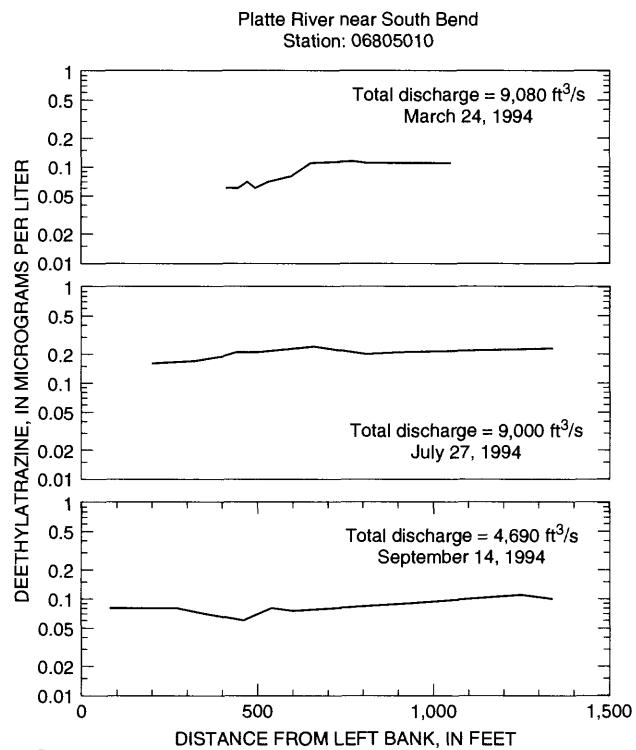
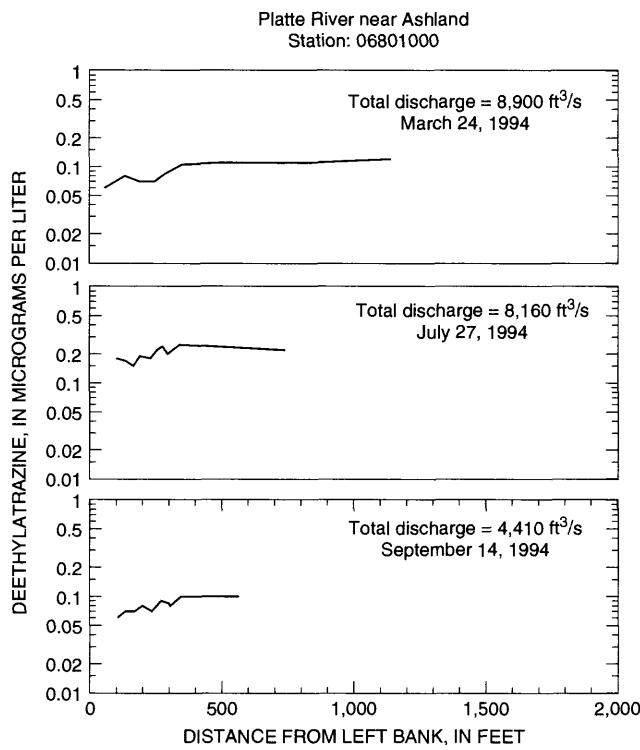
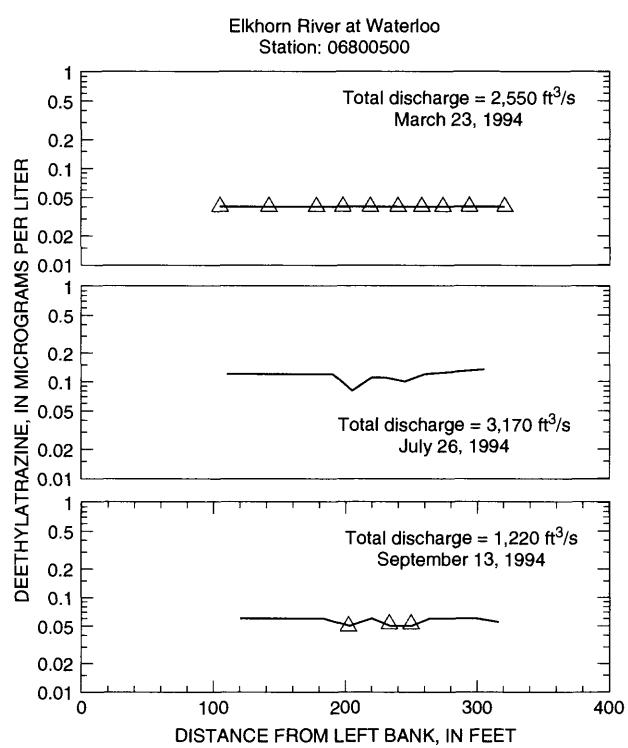
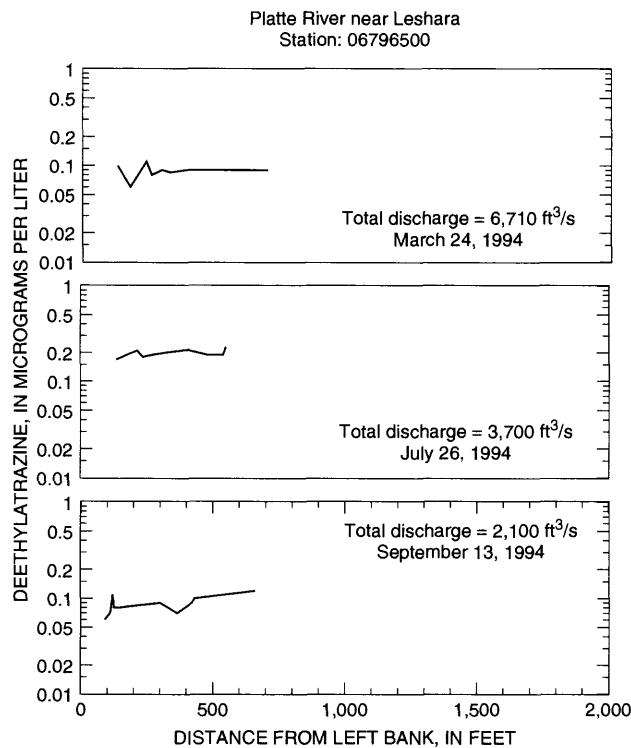
**Figure 13.** Concentrations of orthophosphate in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, September 13 and 14, 1994, and May 24, 1995.



— Atrazine concentration

△ Below reporting level of atrazine

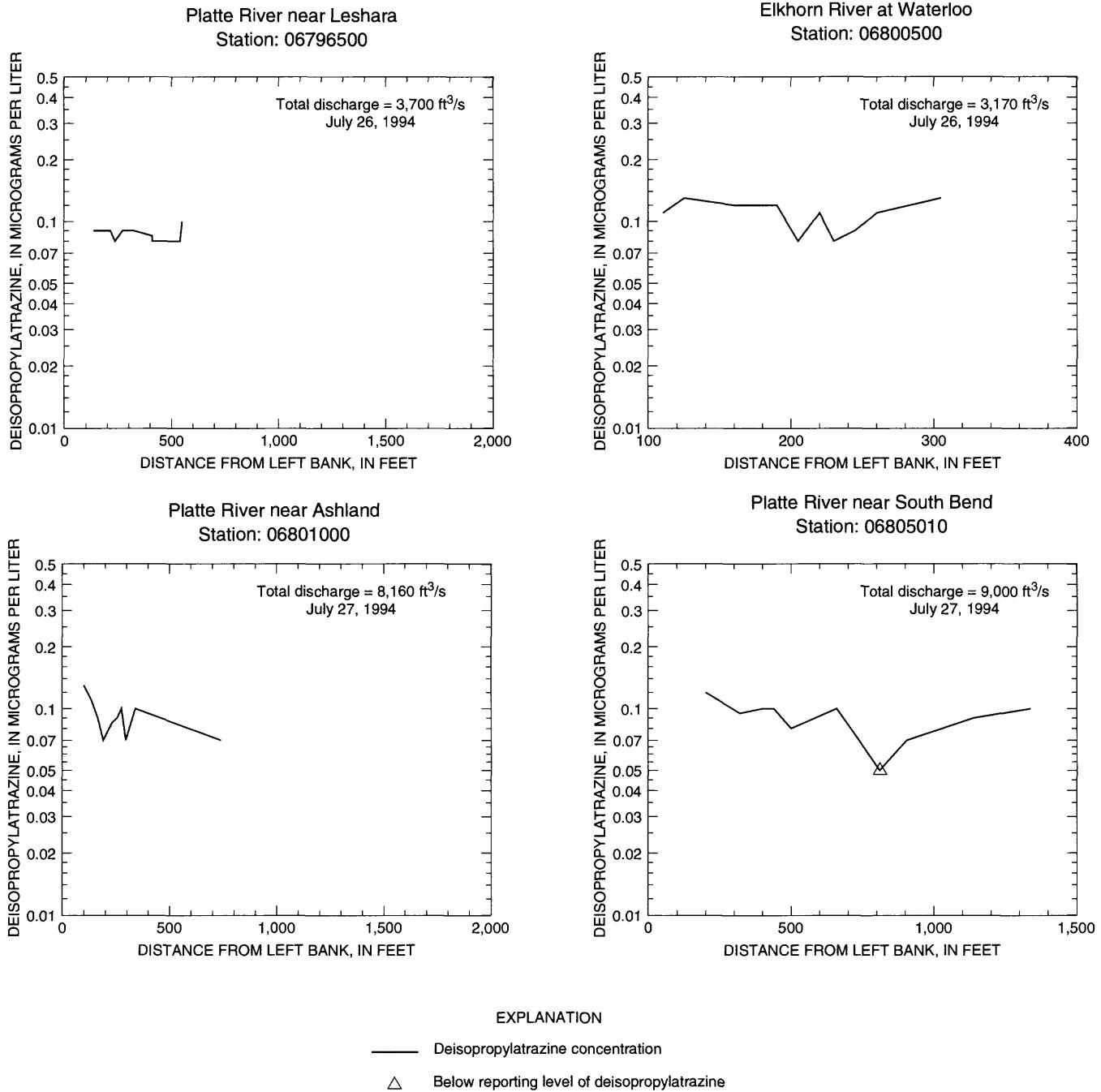
**Figure 14.** Concentrations of atrazine in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, September 13 and 14, 1994, and May 24, 1995.



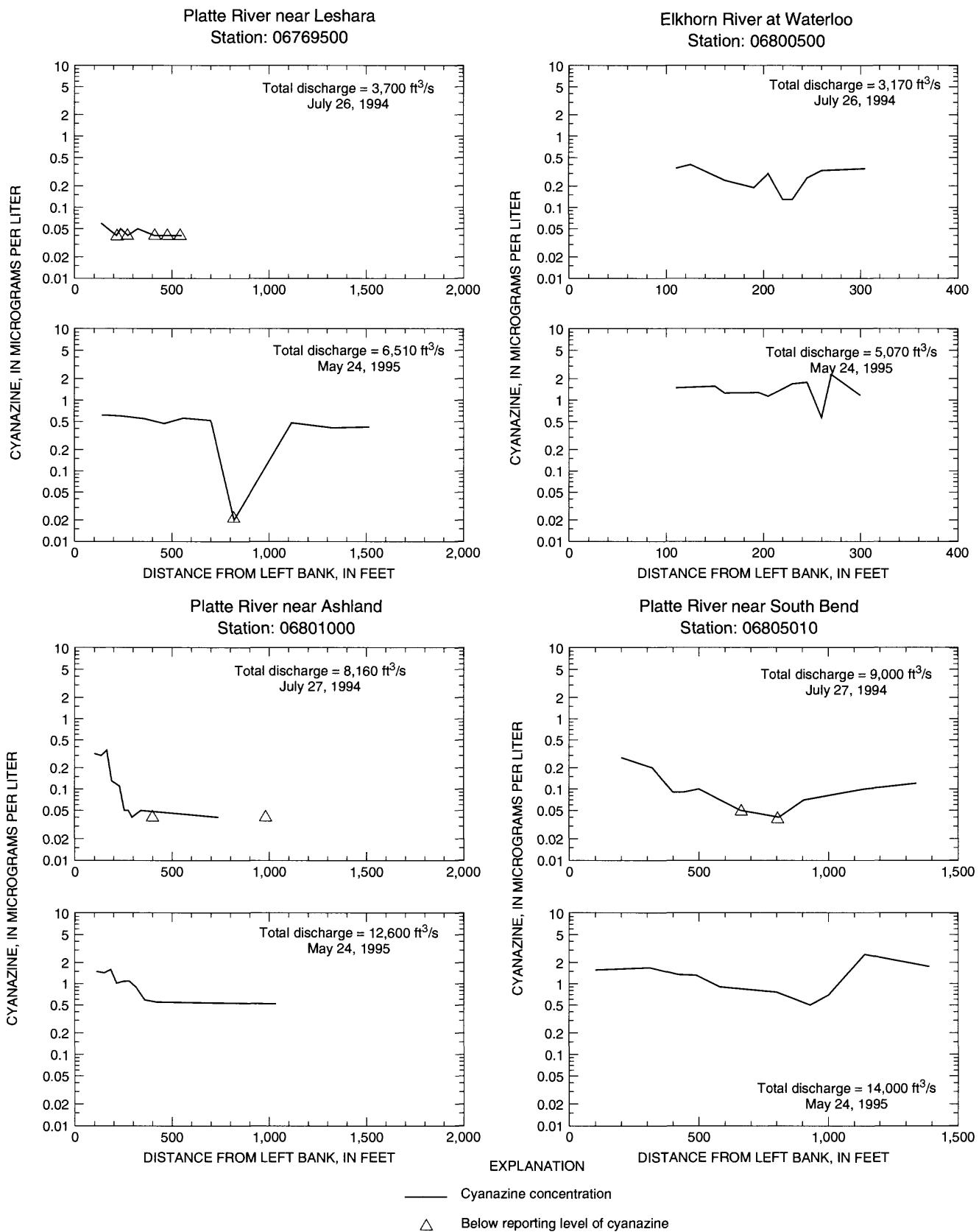
EXPLANATION

- Deethylatrazine concentration
- △ Below reporting level of deethylatrazine

**Figure 15.** Concentrations of deethylatrazine in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on March 23 and 24, 1994, July 26 and 27, 1994, and September 13 and 14, 1994.

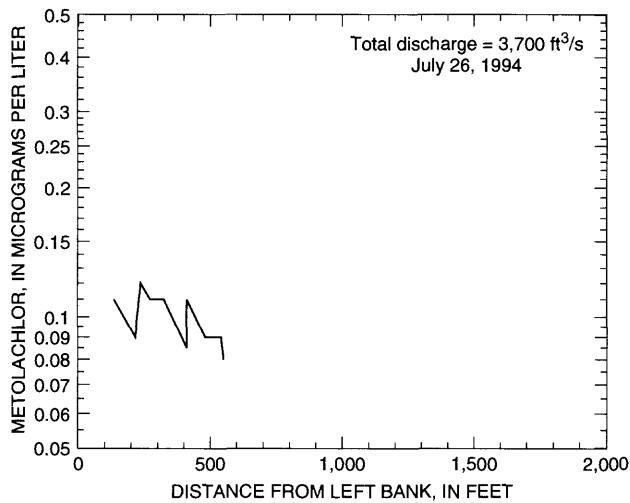


**Figure 16.** Concentrations of deisopropylatrazine in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on July 26 and 27, 1994.

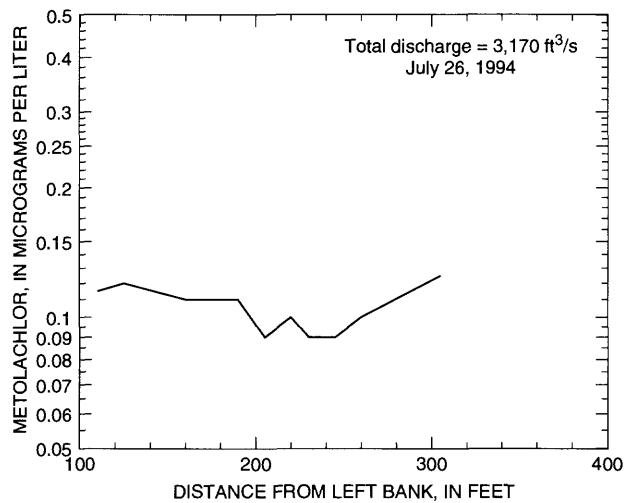


**Figure 17.** Concentrations of cyanazine in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on July 26 and 27, 1994, and May 24, 1995.

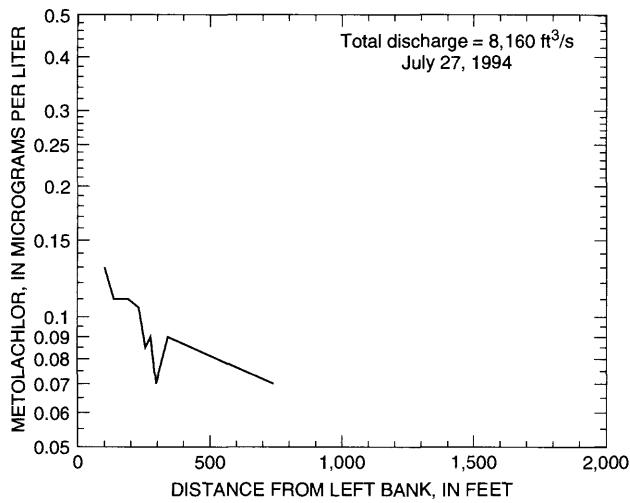
Platte River near Leshara  
Station: 06796500



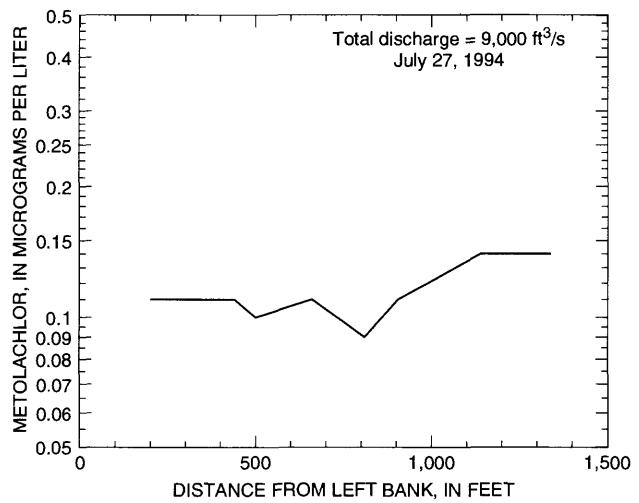
Elkhorn River at Waterloo  
Station: 06800500



Platte River near Ashland  
Station: 06801000



Platte River near South Bend  
Station: 06805010



**Figure 18.** Concentrations of metolachlor in the Platte River near Leshara, Elkhorn River at Waterloo, Platte River near Ashland, and Platte River near South Bend on July 26 and 27, 1994.

## SUMMARY

This report contains data from 9 surface-water and 41 ground-water sites that were collected along the Elkhorn and Platte Rivers from September 1991 through May 1997 in and adjacent to the City of Lincoln municipal well field located near Ashland, eastern Nebraska. Surface-water-quality sites are listed in downstream order. Data collected during six tracer studies at six surface-water and two ground-water sites conducted in 1995 and 1996 in the Elkhorn and Platte Rivers also are presented in this report. Maps included in the report show the locations of the surface-water stations, production wells, including the collector wells, and other water-quality sites. Figures included in the report show: (1) the hydrographs of three surface-water sites, (2) the operation of the Ranney collector wells, and (3) the water-quality data for four surface-water sites and two monitoring wells equipped with water-quality data loggers. Water-quality information included in this report are field measurements; selected nutrients; major ions; trace elements; pesticides and selected metabolites; volatile, semivolatile, and explosive organic compounds and selected derivatives; and radionuclides.

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## **APPENDIXES**

## **APPENDIX A—WATER-QUALITY ANALYTICAL RESULTS**

See diskette in pocket at back of report (tab-delimited format)

**APPENDIX B—RHODAMINE WT DATA COLLECTED DURING THREE  
CONSTANT-RATE INJECTIONS AND THREE SLUG  
INJECTIONS IN 1995 AND 1996**

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.

[ft, foot;  $\mu\text{g/L}$ , micrograms per liter; NA, not applicable; <, less than]

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location	Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
Platte River near Leshara, Nebraska (06796500)									
100	06-21-95	1350	0.19	Vertical #1	140	06-22-95	0817	10.0	Vertical #5
240	06-21-95	1349	.20	Vertical #2	168	06-22-95	0415	.14	Vertical #6
380	06-21-95	1348	.20	Vertical #3	168	06-22-95	0619	6.99	Vertical #6
520	06-21-95	1347	.20	Vertical #4	168	06-22-95	0816	9.90	Vertical #6
660	06-21-95	1346	.20	Vertical #5	196	06-22-95	0416	.14	Vertical #7
800	06-21-95	1345	.20	Vertical #6	196	06-22-95	0618	6.78	Vertical #7
180	06-21-95	1343	.21	Vertical #7	196	06-22-95	0815	10.0	Vertical #7
360	06-21-95	1341	.20	Vertical #8	224	06-22-95	0418	.14	Vertical #8
540	06-21-95	1339	.22	Vertical #9	224	06-22-95	0617	6.58	Vertical #8
720	06-21-95	1335	.19	Vertical #10	224	06-22-95	0814	10.0	Vertical #8
Elkhorn River at Waterloo, Nebraska (06800500)									
100	06-21-95	1505	.18	Vertical #1	252	06-22-95	0419	.14	Vertical #9
125	06-21-95	1507	.19	Vertical #2	252	06-22-95	0616	5.58	Vertical #9
150	06-21-95	1509	.15	Vertical #3	280	06-22-95	0420	.14	Vertical #10
175	06-21-95	1510	.15	Vertical #4	280	06-22-95	0614	4.97	Vertical #10
200	06-21-95	1511	.16	Vertical #5	280	06-22-95	0721	9.92	Vertical #10
225	06-21-95	1512	.18	Vertical #6	280	06-22-95	0731	9.92	Vertical #10
250	06-21-95	1514	.14	Vertical #7	280	06-22-95	0741	9.92	Vertical #10
375	06-21-95	1515	.14	Vertical #8	280	06-22-95	0751	9.92	Vertical #10
300	06-21-95	1517	.15	Vertical #9	280	06-22-95	0801	9.92	Vertical #10
325	06-21-95	1518	.16	Vertical #10	280	06-22-95	0812	8.60	Vertical #10
Elkhorn River at Q Street bridge, Omaha, Nebraska									
28	06-22-95	0406	.14	Vertical #1	125	06-22-95	0420	.20	Centroid
28	06-22-95	0614	2.25	Vertical #1	125	06-22-95	0430	.24	Centroid
28	06-22-95	0721	9.92	Vertical #1	125	06-22-95	0440	.26	Centroid
28	06-22-95	0731	9.92	Vertical #1	125	06-22-95	0450	.20	Centroid
28	06-22-95	0741	9.92	Vertical #1	125	06-22-95	0500	.20	Centroid
28	06-22-95	0751	9.92	Vertical #1	125	06-22-95	0510	.20	Centroid
28	06-22-95	0801	9.92	Vertical #1	125	06-22-95	0520	.23	Centroid
28	06-22-95	0812	9.80	Vertical #1	125	06-22-95	0530	.20	Centroid
56	06-22-95	0410	.14	Vertical #2	125	06-22-95	0540	.18	Centroid
56	06-22-95	0616	6.18	Vertical #2	125	06-22-95	0550	.26	Centroid
56	06-22-95	0813	10.0	Vertical #2	125	06-22-95	0600	2.89	Centroid
84	06-22-95	0411	.14	Vertical #3	125	06-22-95	0610	5.40	Centroid
84	06-22-95	0617	7.59	Vertical #3	125	06-22-95	0620	6.81	Centroid
84	06-22-95	0815	10.0	Vertical #3	125	06-22-95	0630	9.72	Centroid
112	06-22-95	0413	.14	Vertical #4	125	06-22-95	0640	9.92	Centroid
112	06-22-95	0618	8.19	Vertical #4	125	06-22-95	0650	9.92	Centroid
112	06-22-95	0816	9.90	Vertical #4	125	06-22-95	0700	9.92	Centroid
140	06-22-95	0413	.14	Vertical #5	125	06-22-95	0710	9.92	Centroid
140	06-22-95	0619	7.99	Vertical #5	125	06-22-95	0720	9.92	Centroid
					125	06-22-95	0730	9.92	Centroid

**B-2 Selected Surface-Water, Ground-Water, and Tracer Data from the Elkhorn and Platte Rivers and the Alluvium near Ashland, Eastern Nebraska, 1991-97**

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Elkhorn River at Q Street bridge, Omaha, Nebraska--Continued</b>				
125	06-22-95	0740	9.92	Centroid
125	06-22-95	0750	9.92	Centroid
125	06-22-95	0800	9.92	Centroid
<b>Platte River near Ashland, Nebraska (06801000)</b>				
101	06-22-95	0732	.14	Vertical #1
101	06-22-95	0745	.15	Vertical #1
101	06-22-95	0800	.15	Vertical #1
101	06-22-95	0815	.15	Vertical #1
101	06-22-95	0830	.13	Vertical #1
101	06-22-95	0845	.21	Vertical #1
101	06-22-95	0900	.22	Vertical #1
101	06-22-95	0915	.21	Vertical #1
101	06-22-95	0930	.22	Vertical #1
101	06-22-95	0945	.18	Vertical #1
101	06-22-95	1000	.19	Vertical #1
101	06-22-95	1015	.18	Vertical #1
101	06-22-95	1030	.21	Vertical #1
101	06-22-95	1045	.21	Vertical #1
101	06-22-95	1100	.23	Vertical #1
101	06-22-95	1115	.25	Vertical #1
101	06-22-95	1130	.22	Vertical #1
101	06-22-95	1145	.33	Vertical #1
101	06-22-95	1200	.65	Vertical #1
101	06-22-95	1215	1.09	Vertical #1
101	06-22-95	1230	1.24	Vertical #1
101	06-22-95	1245	1.54	Vertical #1
101	06-22-95	1300	2.55	Vertical #1
101	06-22-95	1315	2.40	Vertical #1
101	06-22-95	1330	2.54	Vertical #1
101	06-22-95	1345	2.74	Vertical #1
101	06-22-95	1400	2.94	Vertical #1
101	06-22-95	1415	2.84	Vertical #1
101	06-22-95	1430	2.81	Vertical #1
101	06-22-95	1445	3.11	Vertical #1
101	06-22-95	1500	3.01	Vertical #1
101	06-22-95	1515	2.51	Vertical #1
101	06-22-95	1645	2.40	Vertical #1
232	06-22-95	0745	.13	Vertical #2
232	06-22-95	0800	.16	Vertical #2
232	06-22-95	0815	.13	Vertical #2
232	06-22-95	0830	.21	Vertical #2
232	06-22-95	0845	.23	Vertical #2
232	06-22-95	0900	.21	Vertical #2

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
232	06-22-95	0915	0.24	Vertical #2
232	06-22-95	0930	.20	Vertical #2
232	06-22-95	0945	.18	Vertical #2
232	06-22-95	1000	.20	Vertical #2
232	06-22-95	1015	.22	Vertical #2
232	06-22-95	1030	.23	Vertical #2
232	06-22-95	1045	.21	Vertical #2
232	06-22-95	1100	.21	Vertical #2
232	06-22-95	1115	.25	Vertical #2
232	06-22-95	1130	.22	Vertical #2
232	06-22-95	1145	.35	Vertical #2
232	06-22-95	1200	.54	Vertical #2
232	06-22-95	1215	.94	Vertical #2
232	06-22-95	1230	1.44	Vertical #2
232	06-22-95	1245	1.39	Vertical #2
232	06-22-95	1300	1.09	Vertical #2
232	06-22-95	1315	1.90	Vertical #2
232	06-22-95	1330	2.29	Vertical #2
232	06-22-95	1345	2.74	Vertical #2
232	06-22-95	1400	2.44	Vertical #2
232	06-22-95	1415	1.84	Vertical #2
232	06-22-95	1430	2.21	Vertical #2
232	06-22-95	1445	2.81	Vertical #2
232	06-22-95	1500	3.01	Vertical #2
232	06-22-95	1515	2.01	Vertical #2
232	06-22-95	1645	2.10	Vertical #2
364	06-22-95	0732	.16	Vertical #3
364	06-22-95	0745	.17	Vertical #3
364	06-22-95	0800	.15	Vertical #3
364	06-22-95	0815	.15	Vertical #3
364	06-22-95	0830	.23	Vertical #3
364	06-22-95	0845	.23	Vertical #3
364	06-22-95	0900	.22	Vertical #3
364	06-22-95	0915	.21	Vertical #3
364	06-22-95	0930	.21	Vertical #3
364	06-22-95	0945	.21	Vertical #3
364	06-22-95	1000	.21	Vertical #3
364	06-22-95	1015	.21	Vertical #3
364	06-22-95	1030	.25	Vertical #3
364	06-22-95	1045	.23	Vertical #3
364	06-22-95	1100	.21	Vertical #3
364	06-22-95	1115	.23	Vertical #3
364	06-22-95	1130	.22	Vertical #3

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
364	06-22-95	1145	0.25	Vertical #3
364	06-22-95	1200	.32	Vertical #3
364	06-22-95	1215	.44	Vertical #3
364	06-22-95	1230	.54	Vertical #3
364	06-22-95	1245	.64	Vertical #3
364	06-22-95	1300	.59	Vertical #3
364	06-22-95	1315	.54	Vertical #3
364	06-22-95	1330	.79	Vertical #3
364	06-22-95	1345	.74	Vertical #3
364	06-22-95	1400	.64	Vertical #3
364	06-22-95	1415	.69	Vertical #3
364	06-22-95	1430	.71	Vertical #3
364	06-22-95	1445	.81	Vertical #3
364	06-22-95	1500	.71	Vertical #3
364	06-22-95	1515	.81	Vertical #3
364	06-22-95	1645	.68	Vertical #3
495	06-22-95	0732	.15	Vertical #4
495	06-22-95	0745	.15	Vertical #4
495	06-22-95	0800	.14	Vertical #4
495	06-22-95	0815	.15	Vertical #4
495	06-22-95	0830	.21	Vertical #4
495	06-22-95	0845	.21	Vertical #4
495	06-22-95	0900	.21	Vertical #4
495	06-22-95	0915	.21	Vertical #4
495	06-22-95	0930	.19	Vertical #4
495	06-22-95	0945	.21	Vertical #4
495	06-22-95	1000	.20	Vertical #4
495	06-22-95	1015	.23	Vertical #4
495	06-22-95	1030	.21	Vertical #4
495	06-22-95	1045	.23	Vertical #4
495	06-22-95	1100	.31	Vertical #4
495	06-22-95	1115	.23	Vertical #4
495	06-22-95	1130	.24	Vertical #4
495	06-22-95	1145	.26	Vertical #4
495	06-22-95	1200	.29	Vertical #4
495	06-22-95	1215	.39	Vertical #4
495	06-22-95	1230	.39	Vertical #4
495	06-22-95	1245	.44	Vertical #4
495	06-22-95	1300	1.5	Vertical #4
495	06-22-95	1315	.49	Vertical #4
495	06-22-95	1330	.54	Vertical #4
495	06-22-95	1345	.49	Vertical #4
495	06-22-95	1400	.44	Vertical #4

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
495	06-22-95	1415	0.49	Vertical #4
495	06-22-95	1430	.61	Vertical #4
495	06-22-95	1445	.51	Vertical #4
495	06-22-95	1500	.51	Vertical #4
495	06-22-95	1515	.41	Vertical #4
495	06-22-95	1645	.48	Vertical #4
627	06-22-95	0732	.19	Vertical #5
627	06-22-95	0745	.16	Vertical #5
627	06-22-95	0800	.17	Vertical #5
627	06-22-95	0815	.13	Vertical #5
627	06-22-95	0830	.21	Vertical #5
627	06-22-95	0845	.25	Vertical #5
627	06-22-95	0900	.23	Vertical #5
627	06-22-95	0915	.23	Vertical #5
627	06-22-95	0930	.24	Vertical #5
627	06-22-95	0945	.21	Vertical #5
627	06-22-95	1000	.21	Vertical #5
627	06-22-95	1015	.22	Vertical #5
627	06-22-95	1030	.23	Vertical #5
627	06-22-95	1045	.29	Vertical #5
627	06-22-95	1100	.25	Vertical #5
627	06-22-95	1115	.23	Vertical #5
627	06-22-95	1130	.21	Vertical #5
627	06-22-95	1145	.24	Vertical #5
627	06-22-95	1200	.28	Vertical #5
627	06-22-95	1215	.49	Vertical #5
627	06-22-95	1230	.34	Vertical #5
627	06-22-95	1245	.44	Vertical #5
627	06-22-95	1300	.44	Vertical #5
627	06-22-95	1315	.39	Vertical #5
627	06-22-95	1330	.49	Vertical #5
627	06-22-95	1345	.44	Vertical #5
627	06-22-95	1400	.39	Vertical #5
627	06-22-95	1445	.31	Vertical #5
627	06-22-95	1500	.41	Vertical #5
627	06-22-95	1515	.41	Vertical #5
627	06-22-95	1645	.38	Vertical #5
758	06-22-95	0732	.15	Vertical #6
758	06-22-95	0745	.19	Vertical #6
758	06-22-95	0800	.15	Vertical #6

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.  
—Continued.

--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
758	06-22-95	0815	0.19	Vertical #6
758	06-22-95	0830	.23	Vertical #6
758	06-22-95	0845	.22	Vertical #6
758	06-22-95	0900	.23	Vertical #6
758	06-22-95	0915	.18	Vertical #6
758	06-22-95	0930	.21	Vertical #6
758	06-22-95	0945	.21	Vertical #6
758	06-22-95	1000	.20	Vertical #6
758	06-22-95	1015	.26	Vertical #6
758	06-22-95	1030	.25	Vertical #6
758	06-22-95	1045	.21	Vertical #6
758	06-22-95	1100	.25	Vertical #6
758	06-22-95	1115	.25	Vertical #6
758	06-22-95	1130	.21	Vertical #6
758	06-22-95	1145	.24	Vertical #6
758	06-22-95	1200	.23	Vertical #6
758	06-22-95	1215	.29	Vertical #6
758	06-22-95	1230	.29	Vertical #6
758	06-22-95	1245	.34	Vertical #6
758	06-22-95	1300	.34	Vertical #6
758	06-22-95	1315	.34	Vertical #6
758	06-22-95	1330	.34	Vertical #6
758	06-22-95	1345	.39	Vertical #6
758	06-22-95	1400	.34	Vertical #6
758	06-22-95	1415	.39	Vertical #6
758	06-22-95	1430	.41	Vertical #6
758	06-22-95	1445	.31	Vertical #6
758	06-22-95	1500	.31	Vertical #6
758	06-22-95	1515	.31	Vertical #6
758	06-22-95	1645	.27	Vertical #6
890	06-22-95	0732	.15	Vertical #7
890	06-22-95	0745	.17	Vertical #7
890	06-22-95	0800	.17	Vertical #7
890	06-22-95	0815	.16	Vertical #7
890	06-22-95	0830	.22	Vertical #7
890	06-22-95	0845	.23	Vertical #7
890	06-22-95	0900	.21	Vertical #7
890	06-22-95	0915	.21	Vertical #7
890	06-22-95	0930	.20	Vertical #7
890	06-22-95	0945	.21	Vertical #7
890	06-22-95	1000	.19	Vertical #7
890	06-22-95	1015	.22	Vertical #7

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.  
—Continued

--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
890	06-22-95	1030	0.21	Vertical #7
890	06-22-95	1045	.23	Vertical #7
890	06-22-95	1100	.21	Vertical #7
890	06-22-95	1115	.23	Vertical #7
890	06-22-95	1130	.22	Vertical #7
890	06-22-95	1145	.21	Vertical #7
890	06-22-95	1200	.22	Vertical #7
890	06-22-95	1215	.24	Vertical #7
890	06-22-95	1230	.29	Vertical #7
890	06-22-95	1245	.29	Vertical #7
890	06-22-95	1300	.29	Vertical #7
890	06-22-95	1315	.34	Vertical #7
890	06-22-95	1330	.34	Vertical #7
890	06-22-95	1345	.29	Vertical #7
890	06-22-95	1400	.34	Vertical #7
890	06-22-95	1415	.29	Vertical #7
890	06-22-95	1430	.26	Vertical #7
890	06-22-95	1445	.31	Vertical #7
890	06-22-95	1500	.21	Vertical #7
890	06-22-95	1515	.21	Vertical #7
890	06-22-95	1645	.98	Vertical #7
1,021	06-22-95	0732	.15	Vertical #8
1,021	06-22-95	0745	.15	Vertical #8
1,021	06-22-95	0800	.16	Vertical #8
1,021	06-22-95	0815	.15	Vertical #8
1,021	06-22-95	0830	.23	Vertical #8
1,021	06-22-95	0845	.23	Vertical #8
1,021	06-22-95	0900	.21	Vertical #8
1,021	06-22-95	0915	.21	Vertical #8
1,021	06-22-95	0930	.21	Vertical #8
1,021	06-22-95	0945	.24	Vertical #8
1,021	06-22-95	1000	.20	Vertical #8
1,021	06-22-95	1015	.20	Vertical #8
1,021	06-22-95	1030	.25	Vertical #8
1,021	06-22-95	1045	.25	Vertical #8
1,021	06-22-95	1100	.23	Vertical #8
1,021	06-22-95	1115	.23	Vertical #8
1,021	06-22-95	1130	.23	Vertical #8
1,021	06-22-95	1145	.21	Vertical #8
1,021	06-22-95	1200	.22	Vertical #8
1,021	06-22-95	1215	.24	Vertical #8
1,021	06-22-95	1230	.24	Vertical #8

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.

--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
1,021	06-22-95	1245	0.29	Vertical #8
1,021	06-22-95	1300	.24	Vertical #8
1,021	06-22-95	1315	.24	Vertical #8
1,021	06-22-95	1330	.29	Vertical #8
1,021	06-22-95	1345	.24	Vertical #8
1,021	06-22-95	1400	.24	Vertical #8
1,021	06-22-95	1415	.24	Vertical #8
1,021	06-22-95	1430	.26	Vertical #8
1,021	06-22-95	1445	.26	Vertical #8
1,021	06-22-95	1500	.31	Vertical #8
1,021	06-22-95	1515	.21	Vertical #8
1,021	06-22-95	1645	.17	Vertical #8
1,153	06-22-95	0732	.16	Vertical #9
1,153	06-22-95	0745	.15	Vertical #9
1,153	06-22-95	0800	.15	Vertical #9
1,153	06-22-95	0815	.16	Vertical #9
1,153	06-22-95	0830	.25	Vertical #9
1,153	06-22-95	0845	.23	Vertical #9
1,153	06-22-95	0900	.18	Vertical #9
1,153	06-22-95	0915	.23	Vertical #9
1,153	06-22-95	0930	.20	Vertical #9
1,153	06-22-95	0945	.19	Vertical #9
1,153	06-22-95	1000	.20	Vertical #9
1,153	06-22-95	1015	.25	Vertical #9
1,153	06-22-95	1030	.23	Vertical #9
1,153	06-22-95	1045	.23	Vertical #9
1,153	06-22-95	1100	.27	Vertical #9
1,153	06-22-95	1115	.21	Vertical #9
1,153	06-22-95	1130	.20	Vertical #9
1,153	06-22-95	1145	.21	Vertical #9
1,153	06-22-95	1200	.20	Vertical #9
1,153	06-22-95	1215	.24	Vertical #9
1,153	06-22-95	1230	.24	Vertical #9
1,153	06-22-95	1245	.24	Vertical #9
1,153	06-22-95	1300	.29	Vertical #9
1,153	06-22-95	1315	.24	Vertical #9
1,153	06-22-95	1330	.24	Vertical #9
1,153	06-22-95	1345	.24	Vertical #9
1,153	06-22-95	1400	.24	Vertical #9
1,153	06-22-95	1415	.24	Vertical #9
1,153	06-22-95	1430	.26	Vertical #9
1,153	06-22-95	1445	.26	Vertical #9

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 a.m.

--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
1,153	06-22-95	1500	0.31	Vertical #9
1,153	06-22-95	1515	.31	Vertical #9
1,153	06-22-95	1645	.17	Vertical #9
1,284	06-22-95	0732	.15	Vertical #10
1,284	06-22-95	0745	.15	Vertical #10
1,284	06-22-95	0800	.16	Vertical #10
1,284	06-22-95	0815	.17	Vertical #10
1,284	06-22-95	0830	.23	Vertical #10
1,284	06-22-95	0845	.21	Vertical #10
1,284	06-22-95	0900	.23	Vertical #10
1,284	06-22-95	0915	.23	Vertical #10
1,284	06-22-95	0930	.20	Vertical #10
1,284	06-22-95	0945	.20	Vertical #10
1,284	06-22-95	1000	.22	Vertical #10
1,284	06-22-95	1015	.20	Vertical #10
1,284	06-22-95	1030	.23	Vertical #10
1,284	06-22-95	1045	.21	Vertical #10
1,284	06-22-95	1100	.25	Vertical #10
1,284	06-22-95	1115	.23	Vertical #10
1,284	06-22-95	1130	.20	Vertical #10
1,284	06-22-95	1145	.24	Vertical #10
1,284	06-22-95	1230	.24	Vertical #10
1,284	06-22-95	1245	.19	Vertical #10
1,284	06-22-95	1300	.24	Vertical #10
1,284	06-22-95	1315	.24	Vertical #10
1,284	06-22-95	1330	.24	Vertical #10
1,284	06-22-95	1345	.24	Vertical #10
1,284	06-22-95	1400	.21	Vertical #10
1,284	06-22-95	1415	.21	Vertical #10
1,284	06-22-95	1430	.21	Vertical #10
1,284	06-22-95	1445	.27	Vertical #10
110	06-22-95	0732	.17	Centroid
110	06-22-95	0732	.19	Centroid
110	06-22-95	0745	.19	Centroid
110	06-22-95	0800	.19	Centroid
110	06-22-95	0815	.19	Centroid
110	06-22-95	0830	.19	Centroid

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2 30 A.M.--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
110	06-22-95	0845	0.19	Centroid
110	06-22-95	0900	.19	Centroid
110	06-22-95	0915	.19	Centroid
110	06-22-95	0930	.19	Centroid
110	06-22-95	0945	.24	Centroid
110	06-22-95	1000	.19	Centroid
110	06-22-95	1015	.19	Centroid
110	06-22-95	1030	.19	Centroid
110	06-22-95	1045	.19	Centroid
110	06-22-95	1100	.14	Centroid
110	06-22-95	1115	.19	Centroid
110	06-22-95	1130	.24	Centroid
110	06-22-95	1145	.34	Centroid
110	06-22-95	1200	.59	Centroid
110	06-22-95	1215	1.1	Centroid
110	06-22-95	1230	1.3	Centroid
110	06-22-95	1245	1.8	Centroid
110	06-22-95	1300	2.0	Centroid
110	06-22-95	1315	2.4	Centroid
110	06-22-95	1330	2.6	Centroid
110	06-22-95	1345	3.0	Centroid
110	06-22-95	1400	3.0	Centroid
110	06-22-95	1415	3.2	Centroid
110	06-22-95	1430	3.2	Centroid
110	06-22-95	1445	3.3	Centroid
110	06-22-95	1500	2.9	Centroid
110	06-22-95	1515	3.1	Centroid
110	06-22-95	1645	2.8	Centroid
<b>Platte River near South Bend</b>				
50	06-22-95	1510	2.9	Vertical #1
50	06-22-95	1714	2.9	Vertical #1
200	06-22-95	1511	2.9	Vertical #2
200	06-22-95	1716	2.9	Vertical #2
350	06-22-95	1512	2.7	Vertical #3
350	06-22-95	1717	2.9	Vertical #3
500	06-22-95	1513	2.6	Vertical #4
500	06-22-95	1718	2.6	Vertical #4
650	06-22-95	1515	1.5	Vertical #5
650	06-22-95	1719	1.6	Vertical #5
800	06-22-95	1516	.68	Vertical #6
800	06-22-95	1721	.58	Vertical #6
950	06-22-95	1518	.27	Vertical #7

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2 30 A.M.--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near South Bend--Continued</b>				
950	06-22-95	1722	0.27	Vertical #7
1,100	06-22-95	1519	.27	Vertical #8
1,100	06-22-95	1723	.27	Vertical #8
1,250	06-22-95	1520	.22	Vertical #9
1,250	06-22-95	1725	.17	Vertical #9
1,400	06-22-95	1521	.22	Vertical #10
1,400	09-22-95	1726	.17	Vertical #10
<b>Collector Well W90-1H</b>				
NA	06-22-95	0930	<.05	NA
NA	06-22-95	1000	<.05	NA
NA	06-22-95	1030	<.05	NA
NA	06-22-95	1100	<.05	NA
NA	06-22-95	1130	<.05	NA
NA	06-22-95	1200	<.05	NA
NA	06-22-95	1230	<.05	NA
NA	06-22-95	1300	<.05	NA
NA	06-22-95	1330	<.05	NA
NA	06-22-95	1400	<.05	NA
NA	06-22-95	1430	<.05	NA
NA	06-22-95	1500	<.05	NA
NA	06-22-95	1530	<.05	NA
NA	06-22-95	1600	<.05	NA
NA	06-22-95	1630	<.05	NA
NA	06-22-95	1700	<.05	NA
NA	06-22-95	1730	<.05	NA
NA	06-22-95	1800	<.05	NA
NA	06-22-95	1830	<.05	NA
NA	06-22-95	1900	<.05	NA
NA	06-22-95	1930	<.05	NA
NA	06-22-95	2000	<.05	NA
NA	06-23-95	0821	<.05	NA
NA	06-23-95	1035	<.05	NA
NA	06-23-95	1257	<.05	NA
NA	06-23-95	1520	<.05	NA
NA	06-24-95	0755	<.05	NA
NA	06-24-95	1155	<.05	NA
NA	06-24-95	1555	<.05	NA
NA	06-24-95	1957	<.05	NA
NA	06-25-95	0740	<.05	NA
NA	06-25-95	0800	<.05	NA
NA	06-25-95	0820	<.05	NA
NA	06-25-95	0840	<.05	NA

**Table B-1.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on June 22, 1995, at 2:30 A.M.--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	06-25-95	0900	<0.05	NA
NA	06-25-95	1200	<.05	NA
NA	06-25-95	1545	<.05	NA
NA	06-26-95	1943	<.05	NA
NA	06-26-95	1226	<.05	NA
NA	06-26-95	1426	<.05	NA
NA	06-26-95	1547	<.05	NA
NA	06-27-95	0850	<.05	NA
NA	06-27-95	1018	<.05	NA
NA	06-27-95	1303	<.05	NA
NA	06-27-95	1553	<.05	NA
NA	06-28-95	0843	<.05	NA
NA	06-28-95	1110	<.05	NA
NA	06-28-95	1400	<.05	NA

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.

{ft, foot;  $\mu\text{g/L}$ , microgram per liter; NA, not applicable; <, less than]

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location	Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Leshara, Nebraska (06796500)</b>									
380	08-08-95	1324	0.08	Verticle #1	196	08-09-95	0253	2.1	Verticle #7
350	08-08-95	1329	.08	Verticle #2	196	08-09-95	0609	7.0	Verticle #7
320	08-08-95	1331	<.05	Verticle #3	224	08-09-95	0137	.08	Verticle #8
290	08-08-95	1332	.08	Verticle #4	224	08-09-95	0252	1.6	Verticle #8
260	08-08-95	1333	<.05	Verticle #5	224	08-09-95	0608	7.1	Verticle #8
230	08-08-95	1334	.08	Verticle #6	252	08-09-95	0138	.08	Verticle #9
200	08-08-95	1335	<.05	Verticle #7	252	08-09-95	0250	1.7	Verticle #9
170	08-08-95	1336	.08	Verticle #8	252	08-09-95	0607	7.0	Verticle #9
140	08-08-95	1337	<.05	Verticle #9	280	08-09-95	0139	.08	Verticle #10
110	08-08-95	1338	<.05	Verticle #10	280	08-09-95	0249	1.2	Verticle #10
<b>Elkhorn River at Waterloo, Nebraska (06800500)</b>									
320	08-08-95	1436	<.05	Verticle #1	128	08-09-95	0134	.30	Centroid
300	08-08-95	1437	<.05	Verticle #2	128	08-09-95	0147	.18	Centroid
280	08-08-95	1438	<.05	Verticle #3	128	08-09-95	0152	.18	Centroid
260	08-08-95	1439	.08	Verticle #4	128	08-09-95	0157	.08	Centroid
240	08-08-95	1440	.08	Verticle #5	128	08-09-95	0207	.08	Centroid
220	08-08-95	1441	<.05	Verticle #6	128	08-09-95	0217	.08	Centroid
200	08-08-95	1442	<.05	Verticle #7	128	08-09-95	0227	.49	Centroid
180	08-08-95	1443	<.05	Verticle #8	128	08-09-95	0232	.90	Centroid
160	08-08-95	1444	<.05	Verticle #9	128	08-09-95	0237	1.4	Centroid
110	08-08-95	1445	.08	Verticle #10	128	08-09-95	0240	1.8	Centroid
<b>Elkhorn River at Q Street bridge, Omaha, Nebraska</b>									
28	08-09-95	0130	.08	Verticle #1	128	08-09-95	0243	2.0	Centroid
28	08-09-95	0250	1.7	Verticle #1	128	08-09-95	0247	2.1	Centroid
28	08-09-95	0606	7.0	Verticle #1	128	08-09-95	0252	2.7	Centroid
56	08-09-95	0131	.29	Verticle #2	128	08-09-95	0300	3.4	Centroid
56	08-09-95	0254	2.2	Verticle #2	128	08-09-95	0303	3.7	Centroid
56	08-09-95	0606	6.9	Verticle #2	128	08-09-95	0306	3.8	Centroid
84	08-09-95	0132	.16	Verticle #3	128	08-09-95	0309	4.2	Centroid
84	08-09-95	0256	2.6	Verticle #3	128	08-09-95	0312	4.3	Centroid
84	08-09-95	0608	6.4	Verticle #3	128	08-09-95	0315	4.3	Centroid
112	08-09-95	0133	.22	Verticle #4	128	08-09-95	0320	4.9	Centroid
112	08-09-95	0258	2.7	Verticle #4	128	08-09-95	0325	5.5	Centroid
112	08-09-95	0605	6.9	Verticle #4	128	08-09-95	0330	5.6	Centroid
140	08-09-95	0134	.11	Verticle #5	128	08-09-95	0335	6.0	Centroid
140	08-09-95	0258	2.6	Verticle #5	128	08-09-95	0340	6.0	Centroid
140	08-09-95	0607	6.7	Verticle #5	128	08-09-95	0345	6.5	Centroid
168	08-09-95	0135	.08	Verticle #6	128	08-09-95	0350	6.4	Centroid
168	08-09-95	0254	2.2	Verticle #6	128	08-09-95	0355	6.6	Centroid
168	08-09-95	0610	6.9	Verticle #6	128	08-09-95	0400	6.9	Centroid
196	08-09-95	0136	.11	Verticle #7	128	08-09-95	0405	7.1	Centroid
<b>Elkhorn River at Q Street bridge, Omaha, Nebraska--Continued</b>									

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Elkhorn River at Q Street bridge, Omaha, Nebraska--Continued</b>				
128	08-09-95	0410	7.0	Centroid
128	08-09-95	0415	7.2	Centroid
128	08-09-95	0420	7.4	Centroid
128	08-09-95	0430	7.5	Centroid
128	08-09-95	0440	7.2	Centroid
128	08-09-95	0450	7.6	Centroid
128	08-09-95	0500	7.7	Centroid
<b>Platte River near Ashland, Nebraska (06801000)</b>				
88	08-09-95	0715	<.05	Verticle #1
88	08-09-95	0730	<.05	Verticle #1
88	08-09-95	0753	.05	Verticle #1
88	08-09-95	0808	.05	Verticle #1
88	08-09-95	0823	.07	Verticle #1
88	08-09-95	0838	.07	Verticle #1
88	08-09-95	0853	.07	Verticle #1
88	08-09-95	0908	.07	Verticle #1
88	08-09-95	0923	.07	Verticle #1
88	08-09-95	0938	.07	Verticle #1
88	08-09-95	0953	.07	Verticle #1
88	08-09-95	1008	.07	Verticle #1
88	08-09-95	1023	.12	Verticle #1
88	08-09-95	1038	.12	Verticle #1
88	08-09-95	1053	.18	Verticle #1
88	08-09-95	1108	.28	Verticle #1
88	08-09-95	1123	.45	Verticle #1
88	08-09-95	1138	.60	Verticle #1
88	08-09-95	1153	.81	Verticle #1
88	08-09-95	1208	1.1	Verticle #1
88	08-09-95	1223	1.2	Verticle #1
88	08-09-95	1238	1.4	Verticle #1
88	08-09-95	1253	1.7	Verticle #1
88	08-09-95	1308	1.8	Verticle #1
88	08-09-95	1323	1.9	Verticle #1
88	08-09-95	1338	2.0	Verticle #1
88	08-09-95	1353	1.9	Verticle #1
88	08-09-95	1408	1.9	Verticle #1
88	08-09-95	1423	2.0	Verticle #1
88	08-09-95	1438	2.0	Verticle #1
88	08-09-95	1600	1.8	Verticle #1
88	08-09-95	1700	1.9	Verticle #1
88	08-09-95	1800	1.9	Verticle #1
189	08-09-95	0717	.05	Verticle #2
189	08-09-95	0732	<.05	Verticle #2

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
189	08-09-95	0751	0.06	Verticle #2
189	08-09-95	0806	.06	Verticle #2
189	08-09-95	0821	.07	Verticle #2
189	08-09-95	0836	.07	Verticle #2
189	08-09-95	0851	.07	Verticle #2
189	08-09-95	0906	.07	Verticle #2
189	08-09-95	0921	.12	Verticle #2
189	08-09-95	0936	.07	Verticle #2
189	08-09-95	0951	.07	Verticle #2
189	08-09-95	1006	.07	Verticle #2
189	08-09-95	1021	.12	Verticle #2
189	08-09-95	1036	.12	Verticle #2
189	08-09-95	1051	.14	Verticle #2
189	08-09-95	1106	.17	Verticle #2
189	08-09-95	1121	.19	Verticle #2
189	08-09-95	1136	.29	Verticle #2
189	08-09-95	1151	.81	Verticle #2
189	08-09-95	1206	.40	Verticle #2
189	08-09-95	1221	.48	Verticle #2
189	08-09-95	1236	.48	Verticle #2
189	08-09-95	1251	.54	Verticle #2
189	08-09-95	1306	.59	Verticle #2
189	08-09-95	1321	.71	Verticle #2
189	08-09-95	1336	.81	Verticle #2
189	08-09-95	1351	.71	Verticle #2
189	08-09-95	1406	.69	Verticle #2
189	08-09-95	1421	.80	Verticle #2
189	08-09-95	1436	.80	Verticle #2
189	08-09-95	1602	.95	Verticle #2
189	08-09-95	1702	.85	Verticle #2
189	08-09-95	1802	1.00	Verticle #2
290	08-09-95	0719	<.05	Verticle #3
290	08-09-95	0734	.06	Verticle #3
290	08-09-95	0749	.05	Verticle #3
290	08-09-95	0804	.05	Verticle #3
290	08-09-95	0819	.07	Verticle #3
290	08-09-95	0834	.07	Verticle #3
290	08-09-95	0849	.07	Verticle #3
290	08-09-95	0904	.07	Verticle #3
290	08-09-95	0919	.12	Verticle #3
290	08-09-95	0934	.07	Verticle #3
290	08-09-95	0949	.07	Verticle #3
290	08-09-95	1004	.07	Verticle #3

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
290	08-09-95	1019	0.12	Verticle #3
290	08-09-95	1034	.12	Verticle #3
290	08-09-95	1049	.12	Verticle #3
290	08-09-95	1104	.12	Verticle #3
290	08-09-95	1119	.09	Verticle #3
290	08-09-95	1134	.14	Verticle #3
290	08-09-95	1149	.29	Verticle #3
290	08-09-95	1204	.19	Verticle #3
290	08-09-95	1219	.13	Verticle #3
290	08-09-95	1234	.19	Verticle #3
290	08-09-95	1249	.19	Verticle #3
290	08-09-95	1304	.28	Verticle #3
290	08-09-95	1319	.28	Verticle #3
290	08-09-95	1334	.28	Verticle #3
290	08-09-95	1349	.33	Verticle #3
290	08-09-95	1404	.28	Verticle #3
290	08-09-95	1419	.33	Verticle #3
290	08-09-95	1434	.28	Verticle #3
290	08-09-95	1604	.38	Verticle #3
290	08-09-95	1704	.07	Verticle #3
290	08-09-95	1804	.49	Verticle #3
390	08-09-95	0721	<.05	Verticle #4
390	08-09-95	0736	.05	Verticle #4
390	08-09-95	0747	<.05	Verticle #4
390	08-09-95	0802	<.05	Verticle #4
390	08-09-95	0817	.07	Verticle #4
390	08-09-95	0832	.07	Verticle #4
390	08-09-95	0847	.07	Verticle #4
390	08-09-95	0902	.07	Verticle #4
390	08-09-95	0917	.07	Verticle #4
390	08-09-95	0932	.07	Verticle #4
390	08-09-95	0947	.07	Verticle #4
390	08-09-95	1002	.07	Verticle #4
390	08-09-95	1017	.12	Verticle #4
390	08-09-95	1032	.12	Verticle #4
390	08-09-95	1047	.13	Verticle #4
390	08-09-95	1102	.12	Verticle #4
390	08-09-95	1117	.09	Verticle #4
390	08-09-95	1132	.14	Verticle #4
390	08-09-95	1147	.09	Verticle #4
390	08-09-95	1202	.19	Verticle #4
390	08-09-95	1217	.13	Verticle #4
390	08-09-95	1232	.13	Verticle #4

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
390	08-09-95	1247	0.13	Verticle #4
390	08-09-95	1302	.23	Verticle #4
390	08-09-95	1317	.22	Verticle #4
390	08-09-95	1332	.22	Verticle #4
390	08-09-95	1347	.28	Verticle #4
390	08-09-95	1402	.28	Verticle #4
390	08-09-95	1417	.28	Verticle #4
390	08-09-95	1432	.28	Verticle #4
390	08-09-95	1606	.33	Verticle #4
390	08-09-95	1706	.33	Verticle #4
390	08-09-95	1806	.43	Verticle #4
551	08-09-95	0723	<.05	Verticle #5
551	08-09-95	0738	.05	Verticle #5
551	08-09-95	0745	<.05	Verticle #5
551	08-09-95	0800	.06	Verticle #5
551	08-09-95	0815	.07	Verticle #5
551	08-09-95	0830	.07	Verticle #5
551	08-09-95	0845	.07	Verticle #5
551	08-09-95	0900	.07	Verticle #5
551	08-09-95	0915	.07	Verticle #5
551	08-09-95	0930	.07	Verticle #5
551	08-09-95	0945	.07	Verticle #5
551	08-09-95	1000	.07	Verticle #5
551	08-09-95	1015	.13	Verticle #5
551	08-09-95	1030	.11	Verticle #5
551	08-09-95	1045	.12	Verticle #5
551	08-09-95	1100	.11	Verticle #5
551	08-09-95	1115	.09	Verticle #5
551	08-09-95	1130	.09	Verticle #5
551	08-09-95	1145	.09	Verticle #5
551	08-09-95	1200	.19	Verticle #5
551	08-09-95	1215	.07	Verticle #5
551	08-09-95	1230	.13	Verticle #5
551	08-09-95	1245	.13	Verticle #5
551	08-09-95	1300	.28	Verticle #5
551	08-09-95	1315	.22	Verticle #5
551	08-09-95	1330	.22	Verticle #5
551	08-09-95	1345	.22	Verticle #5
551	08-09-95	1400	.18	Verticle #5
551	08-09-95	1415	.23	Verticle #5
551	08-09-95	1430	.28	Verticle #5
551	08-09-95	1608	.28	Verticle #5
551	08-09-95	1708	.33	Verticle #5

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
551	08-09-95	1808	0.38	Verticle #5
736	08-09-95	0715	<.05	Verticle #6
736	08-09-95	0730	.06	Verticle #6
736	08-09-95	0745	.06	Verticle #6
736	08-09-95	0800	.05	Verticle #6
736	08-09-95	0815	.07	Verticle #6
736	08-09-95	0830	.07	Verticle #6
736	08-09-95	0845	.07	Verticle #6
736	08-09-95	0900	.07	Verticle #6
736	08-09-95	0915	.07	Verticle #6
736	08-09-95	0930	.07	Verticle #6
736	08-09-95	0945	.07	Verticle #6
736	08-09-95	1000	.07	Verticle #6
736	08-09-95	1015	.12	Verticle #6
736	08-09-95	1030	.12	Verticle #6
736	08-09-95	1045	.14	Verticle #6
736	08-09-95	1100	.12	Verticle #6
736	08-09-95	1115	.09	Verticle #6
736	08-09-95	1130	.09	Verticle #6
736	08-09-95	1145	.09	Verticle #6
736	08-09-95	1200	.19	Verticle #6
736	08-09-95	1215	.07	Verticle #6
736	08-09-95	1230	.07	Verticle #6
736	08-09-95	1245	.13	Verticle #6
736	08-09-95	1300	.18	Verticle #6
736	08-09-95	1315	.17	Verticle #6
736	08-09-95	1330	.22	Verticle #6
736	08-09-95	1345	.22	Verticle #6
736	08-09-95	1400	.23	Verticle #6
736	08-09-95	1415	.28	Verticle #6
736	08-09-95	1430	.28	Verticle #6
736	08-09-95	1610	.28	Verticle #6
736	08-09-95	1710	.29	Verticle #6
736	08-09-95	1810	.38	Verticle #6
855	08-09-95	0717	<.05	Verticle #7
855	08-09-95	0732	.05	Verticle #7
855	08-09-95	0747	.05	Verticle #7
855	08-09-95	0802	.05	Verticle #7
855	08-09-95	0817	.07	Verticle #7
855	08-09-95	0902	.07	Verticle #7
855	08-09-95	0917	.07	Verticle #7
855	08-09-95	0932	.07	Verticle #7
855	08-09-95	0947	.07	Verticle #7

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
855	08-09-95	1002	0.07	Verticle #7
855	08-09-95	1017	.11	Verticle #7
855	08-09-95	1032	.11	Verticle #7
855	08-09-95	1047	.11	Verticle #7
855	08-09-95	1102	.11	Verticle #7
855	08-09-95	1117	.09	Verticle #7
855	08-09-95	1132	.09	Verticle #7
855	08-09-95	1147	.09	Verticle #7
855	08-09-95	1202	.09	Verticle #7
855	08-09-95	1217	.07	Verticle #7
855	08-09-95	1232	.07	Verticle #7
855	08-09-95	1247	.07	Verticle #7
855	08-09-95	1317	.17	Verticle #7
855	08-09-95	1332	.17	Verticle #7
855	08-09-95	1347	.22	Verticle #7
855	08-09-95	1402	.18	Verticle #7
855	08-09-95	1417	.18	Verticle #7
855	08-09-95	1432	.18	Verticle #7
855	08-09-95	1612	.23	Verticle #7
855	08-09-95	1712	.28	Verticle #7
855	08-09-95	1812	.33	Verticle #7
959	08-09-95	0719	<.05	Verticle #8
959	08-09-95	0734	<.05	Verticle #8
959	08-09-95	0749	.06	Verticle #8
959	08-09-95	0804	<.05	Verticle #8
959	08-09-95	0819	.07	Verticle #8
959	08-09-95	0834	.07	Verticle #8
959	08-09-95	0849	.07	Verticle #8
959	08-09-95	0904	.07	Verticle #8
959	08-09-95	0919	.07	Verticle #8
959	08-09-95	0934	.07	Verticle #8
959	08-09-95	0949	.07	Verticle #8
959	08-09-95	1004	.07	Verticle #8
959	08-09-95	1019	.12	Verticle #8
959	08-09-95	1034	.11	Verticle #8
959	08-09-95	1049	.13	Verticle #8
959	08-09-95	1104	.11	Verticle #8
959	08-09-95	1119	.09	Verticle #8
959	08-09-95	1134	.09	Verticle #8
959	08-09-95	1149	.09	Verticle #8
959	08-09-95	1204	.09	Verticle #8
959	08-09-95	1219	.07	Verticle #8
959	08-09-95	1234	.07	Verticle #8

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
959	08-09-95	1249	<0.05	Verticle #8
959	08-09-95	1304	.18	Verticle #8
959	08-09-95	1319	.17	Verticle #8
959	08-09-95	1334	.17	Verticle #8
959	08-09-95	1349	.17	Verticle #8
959	08-09-95	1404	.18	Verticle #8
959	08-09-95	1419	.18	Verticle #8
959	08-09-95	1434	.18	Verticle #8
959	08-09-95	1614	.23	Verticle #8
959	08-09-95	1714	.23	Verticle #8
959	08-09-95	1814	.28	Verticle #8
1,185	08-09-95	0721	<.05	Verticle #9
1,185	08-09-95	0736	<.05	Verticle #9
1,185	08-09-95	0751	.06	Verticle #9
1,185	08-09-95	0806	.05	Verticle #9
1,185	08-09-95	0821	.07	Verticle #9
1,185	08-09-95	0836	.07	Verticle #9
1,185	08-09-95	0851	.07	Verticle #9
1,185	08-09-95	0906	.07	Verticle #9
1,185	08-09-95	0921	.07	Verticle #9
1,185	08-09-95	0936	.07	Verticle #9
1,185	08-09-95	0951	.07	Verticle #9
1,185	08-09-95	1006	.07	Verticle #9
1,185	08-09-95	1021	.11	Verticle #9
1,185	08-09-95	1036	.11	Verticle #9
1,185	08-09-95	1051	.11	Verticle #9
1,185	08-09-95	1106	.11	Verticle #9
1,185	08-09-95	1121	.09	Verticle #9
1,185	08-09-95	1136	.19	Verticle #9
1,185	08-09-95	1151	.09	Verticle #9
1,185	08-09-95	1206	.09	Verticle #9
1,185	08-09-95	1221	<.05	Verticle #9
1,185	08-09-95	1236	.07	Verticle #9
1,185	08-09-95	1251	.07	Verticle #9
1,185	08-09-95	1306	.18	Verticle #9
1,185	08-09-95	1321	.12	Verticle #9
1,185	08-09-95	1336	.17	Verticle #9
1,185	08-09-95	1351	.17	Verticle #9
1,185	08-09-95	1406	.18	Verticle #9
1,185	08-09-95	1421	.18	Verticle #9
1,185	08-09-95	1436	.18	Verticle #9
1,185	08-09-95	1616	.18	Verticle #9
1,185	08-09-95	1716	.23	Verticle #9

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
1,185	08-09-95	1816	0.28	Verticle #9
1,285	08-09-95	0723	<.05	Verticle #10
1,285	08-09-95	0738	.05	Verticle #10
1,285	08-09-95	0753	.05	Verticle #10
1,285	08-09-95	0808	.06	Verticle #10
1,285	08-09-95	0823	.07	Verticle #10
1,285	08-09-95	0838	.07	Verticle #10
1,285	08-09-95	0853	.07	Verticle #10
1,285	08-09-95	0908	.07	Verticle #10
1,285	08-09-95	0923	.07	Verticle #10
1,285	08-09-95	0938	.07	Verticle #10
1,285	08-09-95	0953	.17	Verticle #10
1,285	08-09-95	1008	.07	Verticle #10
1,285	08-09-95	1023	.11	Verticle #10
1,285	08-09-95	1038	.11	Verticle #10
1,285	08-09-95	1053	.11	Verticle #10
1,285	08-09-95	1108	.11	Verticle #10
1,285	08-09-95	1123	.09	Verticle #10
1,285	08-09-95	1138	.09	Verticle #10
1,285	08-09-95	1153	.09	Verticle #10
1,285	08-09-95	1208	.09	Verticle #10
1,285	08-09-95	1223	.07	Verticle #10
1,285	08-09-95	1238	<.05	Verticle #10
1,285	08-09-95	1253	.07	Verticle #10
1,285	08-09-95	1308	.18	Verticle #10
1,285	08-09-95	1323	.17	Verticle #10
1,285	08-09-95	1338	.17	Verticle #10
1,285	08-09-95	1353	.17	Verticle #10
1,285	08-09-95	1408	.18	Verticle #10
1,285	08-09-95	1423	.18	Verticle #10
1,285	08-09-95	1438	.18	Verticle #10
1,285	08-09-95	1618	.23	Verticle #10
1,285	08-09-95	1718	.09	Verticle #10
1,285	08-09-95	1818	.28	Verticle #10
110	08-09-95	0741	<.05	Centroid
110	08-09-95	0755	<.05	Centroid
110	08-09-95	0810	<.05	Centroid
110	08-09-95	0825	<.05	Centroid
110	08-09-95	0840	<.05	Centroid
110	08-09-95	0855	<.05	Centroid
110	08-09-95	0910	<.05	Centroid
110	08-09-95	0925	<.05	Centroid
110	08-09-95	0940	<.05	Centroid

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
110	08-09-95	0955	<0.05	Centroid
110	08-09-95	1010	<.05	Centroid
110	08-09-95	1025	<.05	Centroid
110	08-09-95	1040	<.05	Centroid
110	08-09-95	1055	.15	Centroid
110	08-09-95	1110	.26	Centroid
110	08-09-95	1117	<.05	Centroid
110	08-09-95	1125	.43	Centroid
110	08-09-95	1140	.60	Centroid
110	08-09-95	1155	.82	Centroid
110	08-09-95	1210	1.1	Centroid
110	08-09-95	1225	1.3	Centroid
110	08-09-95	1240	1.5	Centroid
110	08-09-95	1255	1.6	Centroid
110	08-09-95	1310	1.7	Centroid
110	08-09-95	1325	1.9	Centroid
110	08-09-95	1340	2.0	Centroid
110	08-09-95	1355	1.9	Centroid
110	08-09-95	1410	2.1	Centroid
110	08-09-95	1425	1.9	Centroid
110	08-09-95	1440	2.0	Centroid
<b>Platte River near South Bend</b>				
80	08-09-95	1439	1.4	Verticle #1
74	08-09-95	1800	2.1	Verticle #1
449	08-09-95	1441	1.5	Verticle #2
452	08-09-95	1801	2.0	Verticle #2
548	08-09-95	1442	1.4	Verticle #3
540	08-09-95	1802	1.6	Verticle #3
647	08-09-95	1443	1.1	Verticle #4
628	08-09-95	1803	1.6	Verticle #4
746	08-09-95	1444	.90	Verticle #5
716	08-09-95	1804	1.1	Verticle #5
845	08-09-95	1445	.17	Verticle #6
804	08-09-95	1805	.59	Verticle #6
944	08-09-95	1447	.17	Verticle #7
892	08-09-95	1806	.27	Verticle #7
1043	08-09-95	1448	.17	Verticle #8
980	08-09-95	1807	.27	Verticle #8
1,282	08-09-95	1450	.17	Verticle #9
1,303	08-09-95	1810	.27	Verticle #9
1,381	08-09-95	1451	.12	Verticle #10
1,391	08-09-95	1811	.27	Verticle #10

**Table B-2.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 9, 1995, at 900 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-1H</b>				
N/A	08-09-95	1250	<0.05	N/A
N/A	08-09-95	1510	<.05	N/A
N/A	08-10-95	0818	<.05	N/A
N/A	08-10-95	1240	<.05	N/A
N/A	08-10-95	1550	.06	N/A
N/A	08-11-95	0821	<.05	N/A
N/A	08-11-95	1230	.05	N/A
N/A	08-11-95	1535	<.05	N/A
N/A	08-12-95	0820	.05	N/A
N/A	08-12-95	1200	<.05	N/A
N/A	08-12-95	1750	.05	N/A
N/A	08-13-95	1230	.06	N/A
N/A	08-13-95	1720	.05	N/A
N/A	08-14-95	1525	.06	N/A
N/A	08-15-95	1033	.05	N/A
N/A	08-15-95	1238	.05	N/A
N/A	08-15-95	1520	.06	N/A
N/A	08-16-95	0846	.06	N/A
N/A	08-16-95	0929	<.05	N/A
<b>Collector Well W90-2H</b>				
N/A	08-10-95	0818	<.05	N/A
N/A	08-10-95	1240	<.05	N/A
N/A	08-10-95	1550	<.05	N/A
N/A	08-11-95	0821	<.05	N/A
N/A	08-11-95	1230	<.05	N/A
N/A	08-11-95	1535	<.05	N/A
N/A	08-14-95	0815	.05	N/A
N/A	08-14-95	1525	.05	N/A
N/A	08-15-95	1033	.06	N/A
N/A	08-15-95	1248	.06	N/A
N/A	08-15-95	1520	.06	N/A
N/A	08-16-95	0846	.06	N/A

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.

[ft, foot;  $\mu\text{g/L}$ , micrograms per liter; NA, not applicable]

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location	Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Leshara, Nebraska (06796500)</b>									
142	08-14-96	1320	0.23	Verticle #1	224	08-15-96	0558	3.6	Verticle #7
262	08-14-96	1325	.24	Verticle #2	224	08-15-96	0731	6.7	Verticle #7
340	08-14-96	1330	.24	Verticle #3	256	08-15-96	0403	.23	Verticle #8
415	08-14-96	1335	.23	Verticle #4	256	08-15-96	0559	3.7	Verticle #8
510	08-14-96	1340	.26	Verticle #5	256	08-15-96	0732	6.8	Verticle #8
615	08-14-96	1345	.23	Verticle #6	276	08-15-96	0404	.23	Verticle #9
755	08-14-96	1350	.23	Verticle #7	276	08-15-96	0600	3.4	Verticle #9
120	08-14-96	1355	.23	Verticle #8	276	08-15-96	0733	6.7	Verticle #9
280	08-14-96	1400	.23	Verticle #9	302	08-15-96	0405	.23	Verticle #10
530	08-14-96	1405	.24	Verticle #10	302	08-15-96	0601	3.2	Verticle #10
<b>Elkhorn River at Waterloo, Nebraska (06800500)</b>									
115	08-14-96	1015	.23	Verticle #1	302	08-15-96	0734	6.6	Verticle #10
150	08-14-96	1017	.23	Verticle #2	120	08-15-96	0330	.25	Centroid
170	08-14-96	1019	.24	Verticle #3	120	08-15-96	0345	.23	Centroid
190	08-14-96	1021	.26	Verticle #4	120	08-15-96	0355	.24	Centroid
210	08-14-96	1023	.25	Verticle #5	120	08-15-96	0410	.23	Centroid
230	08-14-96	1025	.24	Verticle #6	120	08-15-96	0420	.23	Centroid
250	08-14-96	1027	.24	Verticle #7	120	08-15-96	0450	.23	Centroid
270	08-14-96	1029	.24	Verticle #8	120	08-15-96	0500	.23	Centroid
290	08-14-96	1031	.24	Verticle #9	120	08-15-96	0510	.25	Centroid
310	08-14-96	1033	.29	Verticle #10	120	08-15-96	0520	.24	Centroid
<b>Elkhorn River at Q Street bridge, Omaha, Nebraska</b>									
68	08-15-96	0400	.23	Verticle #1	120	08-15-96	0540	1.3	Centroid
68	08-15-96	0557	1.6	Verticle #1	120	08-15-96	0545	2.1	Centroid
68	08-15-96	0730	6.8	Verticle #1	120	08-15-96	0550	3.0	Centroid
94	08-15-96	0402	.24	Verticle #2	120	08-15-96	0555	3.4	Centroid
94	08-15-96	0558	3.1	Verticle #2	120	08-15-96	0603	4.4	Centroid
94	08-15-96	0731	6.6	Verticle #2	120	08-15-96	0610	5.2	Centroid
120	08-15-96	0559	3.3	Verticle #3	120	08-15-96	0615	5.6	Centroid
120	08-15-96	0603	.23	Verticle #3	120	08-15-96	0620	5.8	Centroid
120	08-15-96	0732	6.9	Verticle #3	120	08-15-96	0625	6.2	Centroid
146	08-15-96	0404	.23	Verticle #4	120	08-15-96	0630	.23	Centroid
146	08-15-96	0600	4.1	Verticle #4	120	08-15-96	0635	6.8	Centroid
146	08-15-96	0733	6.5	Verticle #4	120	08-15-96	0645	6.9	Centroid
172	08-15-96	0405	.24	Verticle #5	120	08-15-96	0655	7.1	Centroid
172	08-15-96	0601	4.5	Verticle #5	120	08-15-96	0700	.24	Centroid
172	08-15-96	0735	6.5	Verticle #5	120	08-15-96	0705	6.8	Centroid
188	08-15-96	0401	.26	Verticle #6	120	08-15-96	0715	6.9	Centroid
188	08-15-96	0557	3.7	Verticle #6	120	08-15-96	0725	6.8	Centroid
188	08-15-96	0736	6.8	Verticle #6					
224	08-15-96	0402	.24	Verticle #7					
<b>Elkhorn River at Q Street bridge, Omaha, Nebraska--Continued</b>									

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
Platte River near Ashland, Nebraska (06801000)				
95	08-15-96	1018	0.23	Verticle #1
95	08-15-96	1030	.22	Verticle #1
95	08-15-96	1045	.22	Verticle #1
95	08-15-96	1100	.26	Verticle #1
95	08-15-96	1115	.22	Verticle #1
95	08-15-96	1130	.22	Verticle #1
95	08-15-96	1145	.23	Verticle #1
95	08-15-96	1200	.33	Verticle #1
95	08-15-96	1215	.38	Verticle #1
95	08-15-96	1230	.67	Verticle #1
95	08-15-96	1240	.91	Verticle #1
95	08-15-96	1250	1.1	Verticle #1
95	08-15-96	1300	1.3	Verticle #1
95	08-15-96	1310	1.3	Verticle #1
95	08-15-96	1320	1.9	Verticle #1
95	08-15-96	1330	2.0	Verticle #1
95	08-15-96	1340	1.9	Verticle #1
95	08-15-96	1350	1.9	Verticle #1
94	08-15-96	1400	2.1	Verticle #1
94	08-15-96	1410	1.9	Verticle #1
94	08-15-96	1420	2.1	Verticle #1
94	08-15-96	1430	2.9	Verticle #1
94	08-15-96	1440	2.9	Verticle #1
94	08-15-96	1450	2.7	Verticle #1
94	08-15-96	1500	2.2	Verticle #1
94	08-15-96	1515	2.0	Verticle #1
94	08-15-96	1700	3.0	Verticle #1
212	08-15-96	1018	.23	Verticle #2
212	08-15-96	1030	.23	Verticle #2
212	08-15-96	1045	.23	Verticle #2
212	08-15-96	1100	.24	Verticle #2
212	08-15-96	1115	.22	Verticle #2
212	08-15-96	1130	.22	Verticle #2
212	08-15-96	1145	.22	Verticle #2
212	08-15-96	1200	.24	Verticle #2
212	08-15-96	1215	.18	Verticle #2
212	08-15-96	1230	.20	Verticle #2
212	08-15-96	1240	.23	Verticle #2
212	08-15-96	1250	.24	Verticle #2
212	08-15-96	1300	.27	Verticle #2
212	08-15-96	1310	.26	Verticle #2
212	08-15-96	1320	.30	Verticle #2
212	08-15-96	1330	.30	Verticle #2

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
212	08-15-96	1340	0.33	Verticle #2
212	08-15-96	1350	.35	Verticle #2
207	08-15-96	1400	.38	Verticle #2
207	08-15-96	1410	.36	Verticle #2
207	08-15-96	1420	.38	Verticle #2
207	08-15-96	1430	.39	Verticle #2
207	08-15-96	1440	.42	Verticle #2
207	08-15-96	1450	.42	Verticle #2
207	08-15-96	1500	.44	Verticle #2
207	08-15-96	1515	.40	Verticle #2
207	08-15-96	1701	.51	Verticle #2
329	08-15-96	1018	.23	Verticle #3
329	08-15-96	1030	.24	Verticle #3
329	08-15-96	1045	.23	Verticle #3
329	08-15-96	1100	.23	Verticle #3
329	08-15-96	1115	.23	Verticle #3
329	08-15-96	1130	.22	Verticle #3
329	08-15-96	1145	.23	Verticle #3
329	08-15-96	1200	.23	Verticle #3
329	08-15-96	1215	.15	Verticle #3
329	08-15-96	1230	.15	Verticle #3
329	08-15-96	1240	.15	Verticle #3
329	08-15-96	1250	.16	Verticle #3
329	08-15-96	1300	.17	Verticle #3
329	08-15-96	1310	.16	Verticle #3
329	08-15-96	1320	.15	Verticle #3
329	08-15-96	1330	.16	Verticle #3
329	08-15-96	1340	.16	Verticle #3
329	08-15-96	1350	.17	Verticle #3
319	08-15-96	1400	.17	Verticle #3
319	08-15-96	1410	.19	Verticle #3
319	08-15-96	1420	.18	Verticle #3
319	08-15-96	1430	.19	Verticle #3
319	08-15-96	1440	.18	Verticle #3
319	08-15-96	1450	.19	Verticle #3
319	08-15-96	1500	.19	Verticle #3
319	08-15-96	1515	.20	Verticle #3
319	08-15-96	1702	.33	Verticle #3
446	08-15-96	1018	.23	Verticle #4
446	08-15-96	1030	.23	Verticle #4
446	08-15-96	1045	.23	Verticle #4
446	08-15-96	1100	.22	Verticle #4
446	08-15-96	1115	.23	Verticle #4

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.

--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration (µg/L)	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
446	08-15-96	1130	0.23	Verticle #4
446	08-15-96	1145	.23	Verticle #4
446	08-15-96	1200	.23	Verticle #4
446	08-15-96	1215	.14	Verticle #4
446	08-15-96	1230	.15	Verticle #4
446	08-15-96	1240	.15	Verticle #4
446	08-15-96	1250	.14	Verticle #4
446	08-15-96	1300	.15	Verticle #4
446	08-15-96	1310	.15	Verticle #4
446	08-15-96	1320	.15	Verticle #4
446	08-15-96	1330	.15	Verticle #4
446	08-15-96	1340	.15	Verticle #4
446	08-15-96	1350	.16	Verticle #4
439	08-15-96	1400	.16	Verticle #4
439	08-15-96	1410	.16	Verticle #4
439	08-15-96	1420	.16	Verticle #4
439	08-15-96	1430	.16	Verticle #4
439	08-15-96	1440	.17	Verticle #4
439	08-15-96	1450	.17	Verticle #4
439	08-15-96	1500	.17	Verticle #4
439	08-15-96	1515	.18	Verticle #4
439	08-15-96	1703	.29	Verticle #4
563	08-15-96	1018	.23	Verticle #5
563	08-15-96	1030	.22	Verticle #5
563	08-15-96	1045	.22	Verticle #5
563	08-15-96	1100	.25	Verticle #5
563	08-15-96	1115	.23	Verticle #5
563	08-15-96	1130	.23	Verticle #5
563	08-15-96	1145	.23	Verticle #5
563	08-15-96	1200	.22	Verticle #5
563	08-15-96	1215	.15	Verticle #5
563	08-15-96	1230	.14	Verticle #5
563	08-15-96	1240	.14	Verticle #5
563	08-15-96	1250	.14	Verticle #5
563	08-15-96	1300	.13	Verticle #5
563	08-15-96	1310	.14	Verticle #5
563	08-15-96	1320	.14	Verticle #5
563	08-15-96	1330	.14	Verticle #5
563	08-15-96	1340	.14	Verticle #5
563	08-15-96	1350	.14	Verticle #5
572	08-15-96	1400	.15	Verticle #5
572	08-15-96	1410	.15	Verticle #5
572	08-15-96	1420	.15	Verticle #5

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.

--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration (µg/L)	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
572	08-15-96	1430	0.15	Verticle #5
572	08-15-96	1440	.15	Verticle #5
572	08-15-96	1450	.15	Verticle #5
572	08-15-96	1500	.16	Verticle #5
572	08-15-96	1515	.14	Verticle #5
572	08-15-96	1704	.26	Verticle #5
680	08-15-96	1018	.23	Verticle #6
680	08-15-96	1030	.23	Verticle #6
680	08-15-96	1045	.22	Verticle #6
680	08-15-96	1100	.22	Verticle #6
680	08-15-96	1115	.23	Verticle #6
680	08-15-96	1130	.23	Verticle #6
680	08-15-96	1145	.23	Verticle #6
680	08-15-96	1200	.22	Verticle #6
680	08-15-96	1215	.14	Verticle #6
680	08-15-96	1230	.14	Verticle #6
680	08-15-96	1240	.14	Verticle #6
680	08-15-96	1250	.14	Verticle #6
680	08-15-96	1300	.13	Verticle #6
680	08-15-96	1310	.13	Verticle #6
680	08-15-96	1320	.13	Verticle #6
680	08-15-96	1330	.13	Verticle #6
680	08-15-96	1340	.15	Verticle #6
680	08-15-96	1350	.15	Verticle #6
688	08-15-96	1400	.15	Verticle #6
688	08-15-96	1410	.14	Verticle #6
688	08-15-96	1420	.14	Verticle #6
688	08-15-96	1430	.15	Verticle #6
688	08-15-96	1440	.15	Verticle #6
688	08-15-96	1450	.15	Verticle #6
688	08-15-96	1500	.15	Verticle #6
688	08-15-96	1515	.15	Verticle #6
688	08-15-96	1705	.26	Verticle #6
797	08-15-96	1018	.22	Verticle #7
797	08-15-96	1030	.23	Verticle #7
797	08-15-96	1045	.24	Verticle #7
797	08-15-96	1100	.22	Verticle #7
819	08-15-96	1115	.22	Verticle #7
819	08-15-96	1130	.22	Verticle #7
819	08-15-96	1145	.22	Verticle #7
819	08-15-96	1200	.23	Verticle #7
819	08-15-96	1215	.14	Verticle #7
819	08-15-96	1230	.16	Verticle #7

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
819	08-15-96	1240	0.14	Verticle #7
819	08-15-96	1250	.14	Verticle #7
819	08-15-96	1300	.13	Verticle #7
819	08-15-96	1310	.13	Verticle #7
819	08-15-96	1320	.13	Verticle #7
819	08-15-96	1330	.13	Verticle #7
819	08-15-96	1340	.14	Verticle #7
819	08-15-96	1350	.14	Verticle #7
827	08-15-96	1400	.14	Verticle #7
827	08-15-96	1410	.14	Verticle #7
827	08-15-96	1420	.14	Verticle #7
827	08-15-96	1430	.14	Verticle #7
827	08-15-96	1440	.14	Verticle #7
827	08-15-96	1450	.15	Verticle #7
827	08-15-96	1500	.14	Verticle #7
827	08-15-96	1515	.14	Verticle #7
827	08-15-96	1706	.25	Verticle #7
914	08-15-96	1018	.22	Verticle #8
914	08-15-96	1030	.22	Verticle #8
914	08-15-96	1045	.22	Verticle #8
914	08-15-96	1100	.22	Verticle #8
936	08-15-96	1115	.23	Verticle #8
936	08-15-96	1130	.22	Verticle #8
936	08-15-96	1145	.23	Verticle #8
936	08-15-96	1200	.22	Verticle #8
936	08-15-96	1215	.14	Verticle #8
936	08-15-96	1230	.14	Verticle #8
936	08-15-96	1240	.14	Verticle #8
936	08-15-96	1250	.14	Verticle #8
936	08-15-96	1300	.14	Verticle #8
936	08-15-96	1310	.13	Verticle #8
936	08-15-96	1320	.13	Verticle #8
936	08-15-96	1330	.14	Verticle #8
936	08-15-96	1340	.13	Verticle #8
936	08-15-96	1350	.14	Verticle #8
939	08-15-96	1400	.13	Verticle #8
939	08-15-96	1410	.13	Verticle #8
939	08-15-96	1420	.13	Verticle #8
939	08-15-96	1430	.14	Verticle #8
939	08-15-96	1440	.14	Verticle #8
939	08-15-96	1450	.15	Verticle #8
939	08-15-96	1500	.14	Verticle #8
939	08-15-96	1515	.13	Verticle #8

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
939	08-15-96	1707	0.26	Verticle #8
1,031	08-15-96	1018	.23	Verticle #9
1,031	08-15-96	1030	.22	Verticle #9
1,031	08-15-96	1045	.23	Verticle #9
1,031	08-15-96	1100	.22	Verticle #9
1,058	08-15-96	1115	.22	Verticle #9
1,058	08-15-96	1130	.22	Verticle #9
1,058	08-15-96	1145	.22	Verticle #9
1,058	08-15-96	1200	.22	Verticle #9
1,058	08-15-96	1215	.14	Verticle #9
1,058	08-15-96	1230	.15	Verticle #9
1,058	08-15-96	1240	.14	Verticle #9
1,058	08-15-96	1250	.14	Verticle #9
1,058	08-15-96	1300	.13	Verticle #9
1,058	08-15-96	1310	.13	Verticle #9
1,058	08-15-96	1320	.14	Verticle #9
1,058	08-15-96	1330	.13	Verticle #9
1,058	08-15-96	1340	.13	Verticle #9
1,061	08-15-96	1400	.13	Verticle #9
1,061	08-15-96	1410	.14	Verticle #9
1,061	08-15-96	1420	.14	Verticle #9
1,061	08-15-96	1430	.13	Verticle #9
1,061	08-15-96	1440	.14	Verticle #9
1,061	08-15-96	1450	.14	Verticle #9
1,061	08-15-96	1500	.14	Verticle #9
1,061	08-15-96	1515	.14	Verticle #9
1,060	08-15-96	1708	.24	Verticle #9
1,207	08-15-96	1018	.23	Verticle #10
1,207	08-15-96	1030	.22	Verticle #10
1,207	08-15-96	1045	.22	Verticle #10
1,207	08-15-96	1100	.22	Verticle #10
1,238	08-15-96	1115	.23	Verticle #10
1,238	08-15-96	1130	.22	Verticle #10
1,238	08-15-96	1145	.22	Verticle #10
1,238	08-15-96	1200	.22	Verticle #10
1,238	08-15-96	1215	.15	Verticle #10
1,238	08-15-96	1230	.14	Verticle #10
1,238	08-15-96	1240	.14	Verticle #10
1,238	08-15-96	1250	.18	Verticle #10
1,238	08-15-96	1300	.13	Verticle #10
1,238	08-15-96	1310	.13	Verticle #10
1,238	08-15-96	1320	.13	Verticle #10

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
Platte River near Ashland, Nebraska (06801000)--Continued				
1,238	08-15-96	1330	0.13	Verticle #10
1,238	08-15-96	1340	.13	Verticle #10
1,238	08-15-96	1350	.13	Verticle #10
1,234	08-15-96	1400	.14	Verticle #10
1,234	08-15-96	1410	.18	Verticle #10
1,234	08-15-96	1420	.13	Verticle #10
1,234	08-15-96	1430	13	Verticle #10
1,234	08-15-96	1440	.14	Verticle #10
1,234	08-15-96	1450	.14	Verticle #10
1,234	08-15-96	1500	.14	Verticle #10
1,234	08-15-96	1515	.15	Verticle #10
1,235	08-15-96	1709	.29	Verticle #10
98	08-15-96	945	.13	Centroid
98	08-15-96	1000	.13	Centroid
98	08-15-96	1018	.13	Centroid
98	08-15-96	1030	.13	Centroid
98	08-15-96	1045	.13	Centroid
86	08-15-96	1100	.13	Centroid
86	08-15-96	1115	.13	Centroid
86	08-15-96	1130	.13	Centroid
86	08-15-96	1145	.15	Centroid
86	08-15-96	1200	.19	Centroid
86	08-15-96	1215	.36	Centroid
86	08-15-96	1230	.61	Centroid
86	08-15-96	1240	.87	Centroid
86	08-15-96	1250	1.1	Centroid
86	08-15-96	1300	1.4	Centroid
86	08-15-96	1310	1.7	Centroid
86	08-15-96	1320	1.8	Centroid
86	08-15-96	1330	2.2	Centroid
86	08-15-96	1340	2.4	Centroid
86	08-15-96	1350	2.6	Centroid
86	08-15-96	1400	2.7	Centroid
86	08-15-96	1410	3.0	Centroid
86	08-15-96	1420	2.9	Centroid
86	08-15-96	1430	3.0	Centroid
86	08-15-96	1440	3.0	Centroid
86	08-15-96	1450	3.0	Centroid
86	08-15-96	1500	2.9	Centroid
86	08-15-96	1515	2.9	Centroid
87	08-15-96	1700	3.1	Centroid

**Table B-3.** Concentrations of Rhodamine WT dye collected during the constant-rate injection in the Elkhorn River at Waterloo, Nebraska, on August 15, 1996, at 1130 P.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
Platte River island bridge, City of Lincoln Well Field				
104	08-15-96	1806	2.9	Verticle #1
193	08-15-96	1804	3.0	Verticle #2
272	08-15-96	1802	2.7	Verticle #3
351	08-15-96	1800	2.5	Verticle #4
430	08-15-96	1758	2.0	Verticle #5
Collector Well W90-1H				
N/A	08-15-96	00949	0.13	N/A
N/A	08-15-96	1220	.13	N/A
N/A	08-15-96	1545	.13	N/A
N/A	08-16-96	0800	.14	N/A
N/A	08-16-96	1230	.14	N/A
N/A	08-16-96	1545	.14	N/A
N/A	08-19-96	0820	.15	N/A
N/A	08-19-96	1241	.15	N/A
N/A	08-19-96	130	.15	N/A
Collector Well W90-2H				
N/A	08-15-96	0955	.12	N/A
N/A	08-15-96	1225	.12	N/A
N/A	08-15-96	1550	.12	N/A
N/A	08-16-96	0750	.13	N/A
N/A	08-16-96	1235	.12	N/A
N/A	08-16-96	1550	.14	N/A
N/A	08-19-96	0825	.15	N/A
N/A	08-19-96	1131	.14	N/A
N/A	08-19-96	1540	.14	N/A

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.

[ft, foot;  $\mu\text{g/L}$ , micrograms per liter; NA, not applicable]

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location	Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)</b>									
90	08-19-96	1707	57	Vertical #1	784	08-19-96	1707	0.84	Vertical #7
88	08-19-96	1742	68	Vertical #1	780	08-19-96	1742	2.5	Vertical #7
90	08-19-96	1755	59	Vertical #1	780	08-19-96	1848	.84	Vertical #7
90	08-19-96	1800	56	Vertical #1	892	08-19-96	1707	.64	Vertical #8
88	08-19-96	1805	49	Vertical #1	884	08-19-96	1744	2.2	Vertical #8
88	08-19-96	1810	54	Vertical #1	884	08-19-96	1848	.84	Vertical #8
88	08-19-96	1815	44	Vertical #1	1,011	08-19-96	1707	.20	Vertical #9
88	08-19-96	1820	37	Vertical #1	988	08-19-96	1743	1.9	Vertical #9
88	08-19-96	1825	38	Vertical #1	988	08-19-96	1848	.94	Vertical #9
88	08-19-96	1830	30	Vertical #1	1,232	08-19-96	1707	.30	Vertical #10
88	08-19-96	1835	18	Vertical #1	1,222	08-19-96	1742	1.9	Vertical #10
88	08-19-96	1840	19	Vertical #1	1,222	08-19-96	1848	.84	Vertical #10
88	08-19-96	1845	24	Vertical #1	100	08-19-96	1457	.15	Centroid
88	08-19-96	1848	22	Vertical #1	100	08-19-96	1510	.15	Centroid
88	08-19-96	1857	16	Vertical #1	100	08-19-96	1520	.15	Centroid
88	08-19-96	1905	15	Vertical #1	100	08-19-96	1530	.15	Centroid
88	08-19-96	1910	13	Vertical #1	100	08-19-96	1540	.15	Centroid
88	08-19-96	1920	14	Vertical #1	100	08-19-96	1550	.15	Centroid
88	08-19-96	1930	9.2	Vertical #1	100	08-19-96	1600	.15	Centroid
199	08-19-96	1715	15	Vertical #2	100	08-19-96	1610	.15	Centroid
192	08-19-96	1742	14	Vertical #2	100	08-19-96	1620	.15	Centroid
192	08-19-96	1848	3.3	Vertical #2	100	08-19-96	1630	.15	Centroid
308	08-19-96	1707	2.1	Vertical #3	100	08-19-96	1640	.35	Centroid
308	08-19-96	1707	3.8	Vertical #3	100	08-19-96	1645	4.6	Centroid
296	08-19-96	1742	5.3	Vertical #3	100	08-19-96	1650	14	Centroid
296	08-19-96	1848	1.5	Vertical #3	100	08-19-96	1653	19	Centroid
416	08-19-96	1707	1.9	Vertical #4	100	08-19-96	1656	30	Centroid
400	08-19-96	1743	4.2	Vertical #4	100	08-19-96	1659	33	Centroid
400	08-19-96	1848	1.2	Vertical #4	100	08-19-96	1704	49	Centroid
525	08-19-96	1707	1.6	Vertical #5	100	08-19-96	1707	57	Centroid
510	08-19-96	1744	2.8	Vertical #5	100	08-19-96	1710	60	Centroid
510	08-19-96	1848	1.0	Vertical #5	100	08-19-96	1713	59	Centroid
641	08-19-96	1707	1.0	Vertical #6	100	08-19-96	1719	71	Centroid
637	08-19-96	1743	2.7	Vertical #6	100	08-19-96	1724	71	Centroid
637	08-19-96	1848	.94	Vertical #6					

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
100	08-19-96	1730	64	Centroid
100	08-19-96	1735	74	Centroid
100	08-19-96	1743	75	Centroid
100	08-19-96	1749	56	Centroid
100	08-19-96	1755	52	Centroid
100	08-19-96	1800	49	Centroid
100	08-19-96	1805	50	Centroid
100	08-19-96	1810	34	Centroid
100	08-19-96	1815	37	Centroid
100	08-19-96	1820	4.6	Centroid
100	08-19-96	1825	30	Centroid
100	08-19-96	1830	32	Centroid
100	08-19-96	1835	26	Centroid
100	08-19-96	1840	16	Centroid
100	08-19-96	1845	23	Centroid
100	08-19-96	1848	20	Centroid
100	08-19-96	1857	12	Centroid
100	08-19-96	1905	14	Centroid
100	08-19-96	1910	13	Centroid
100	08-19-96	1920	6.4	Centroid
100	08-19-96	1930	10	Centroid
100	08-19-96	1940	7.3	Centroid
100	08-19-96	1950	4.6	Centroid
<b>Platte River island bridge, City of Lincoln Well Field</b>				
100	08-19-96	1833	73	Vertical #1
250	08-19-96	1834	64	Vertical #2
400	08-19-96	0135	40	Vertical #3
<b>Collector Well W90-1H</b>				
NA	08-20-96	0707	.14	NA
NA	08-20-96	0730	.14	NA
NA	08-20-96	0800	.14	NA
NA	08-20-96	0830	.14	NA
NA	08-20-96	0900	.14	NA
NA	08-20-96	0930	.14	NA
NA	08-20-96	1000	.14	NA
NA	08-20-96	1030	.14	NA
NA	08-20-96	1100	.14	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-20-96	1130	0.13	NA
NA	08-20-96	1200	.14	NA
NA	08-20-96	1230	.13	NA
NA	08-20-96	1300	.14	NA
NA	08-20-96	1330	.13	NA
NA	08-20-96	1400	.14	NA
NA	08-20-96	1430	.14	NA
NA	08-20-96	1500	.14	NA
NA	08-20-96	1530	.13	NA
NA	08-20-96	1600	.13	NA
NA	08-20-96	1630	.13	NA
NA	08-20-96	1700	.13	NA
NA	08-20-96	1730	.13	NA
NA	08-20-96	1800	.13	NA
NA	08-20-96	1830	.13	NA
NA	08-20-96	1900	.14	NA
NA	08-20-96	1930	.14	NA
NA	08-20-96	2000	.15	NA
NA	08-20-96	2030	.15	NA
NA	08-20-96	2100	.16	NA
NA	08-20-96	2130	.16	NA
NA	08-20-96	2200	.17	NA
NA	08-20-96	2230	.23	NA
NA	08-20-96	2300	.24	NA
NA	08-20-96	2330	.25	NA
NA	08-21-96	2400	.25	NA
NA	08-21-96	0030	.25	NA
NA	08-21-96	0100	.25	NA
NA	08-21-96	0130	.25	NA
NA	08-21-96	0200	.26	NA
NA	08-21-96	0230	.26	NA
NA	08-21-96	0300	.26	NA
NA	08-21-96	0330	.27	NA
NA	08-21-96	0400	.28	NA
NA	08-21-96	0430	.29	NA
NA	08-21-96	0500	.30	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-21-96	0530	0.31	NA
NA	08-21-96	0600	.32	NA
NA	08-21-96	0630	.34	NA
NA	08-21-96	0700	.35	NA
NA	08-21-96	0730	.36	NA
NA	08-21-96	0800	.37	NA
NA	08-21-96	0830	.38	NA
NA	08-21-96	0900	.38	NA
NA	08-21-96	0930	.38	NA
NA	08-21-96	0945	.39	NA
NA	08-21-96	1000	.39	NA
NA	08-21-96	1015	.39	NA
NA	08-21-96	1030	.38	NA
NA	08-21-96	1045	.40	NA
NA	08-21-96	1100	.40	NA
NA	08-21-96	1115	.41	NA
NA	08-21-96	1130	.41	NA
NA	08-21-96	1145	.41	NA
NA	08-21-96	1200	.40	NA
NA	08-21-96	1230	.40	NA
NA	08-21-96	1245	.40	NA
NA	08-21-96	1305	.41	NA
NA	08-21-96	1315	.41	NA
NA	08-21-96	1330	.42	NA
NA	08-21-96	1345	.42	NA
NA	08-21-96	1400	.41	NA
NA	08-21-96	14:30	.41	NA
NA	08-21-96	1445	.41	NA
NA	08-21-96	1500	.42	NA
NA	08-21-96	1515	.41	NA
NA	08-21-96	1530	.42	NA
NA	08-21-96	1600	.43	NA
NA	08-21-96	1630	.42	NA
NA	08-21-96	1700	.43	NA
NA	08-21-96	1730	.43	NA
NA	08-21-96	1800	.42	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-21-96	1830	0.42	NA
NA	08-21-96	1900	.42	NA
NA	08-21-96	1930	.43	NA
NA	08-21-96	2000	.42	NA
NA	08-21-96	2030	.42	NA
NA	08-21-96	2100	.42	NA
NA	08-21-96	2130	.42	NA
NA	08-21-96	2200	.43	NA
NA	08-21-96	2230	.42	NA
NA	08-21-96	2300	.42	NA
NA	08-21-96	2330	.42	NA
NA	08-22-96	2400	.42	NA
NA	08-22-96	0025	.42	NA
NA	08-22-96	0100	.41	NA
NA	08-22-96	0130	.41	NA
NA	08-22-96	0200	.42	NA
NA	08-22-96	0230	.41	NA
NA	08-22-96	0300	.42	NA
NA	08-22-96	0330	.41	NA
NA	08-22-96	0400	.41	NA
NA	08-22-96	0430	.40	NA
NA	08-22-96	0500	.41	NA
NA	08-22-96	0530	.40	NA
NA	08-22-96	0600	.39	NA
NA	08-22-96	0630	.39	NA
NA	08-22-96	0700	.40	NA
NA	08-22-96	0730	.39	NA
NA	08-22-96	0800	.38	NA
NA	08-22-96	0830	.38	NA
NA	08-22-96	0900	.38	NA
NA	08-22-96	0930	.38	NA
NA	08-22-96	1000	.38	NA
NA	08-22-96	1030	.38	NA
NA	08-22-96	1102	.37	NA
NA	08-22-96	1130	.37	NA
NA	08-22-96	1200	.37	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-22-96	1230	0.37	NA
NA	08-22-96	1300	.37	NA
NA	08-22-96	1330	.36	NA
NA	08-22-96	1400	.37	NA
NA	08-22-96	1430	.37	NA
NA	08-22-96	1500	.36	NA
NA	08-22-96	1530	.36	NA
NA	08-22-96	1600	.36	NA
NA	08-22-96	1630	.37	NA
NA	08-22-96	1700	.37	NA
NA	08-22-96	1730	.37	NA
NA	08-22-96	1800	.37	NA
NA	08-22-96	1830	.36	NA
NA	08-22-96	1900	.37	NA
NA	08-22-96	1930	.36	NA
NA	08-22-96	2000	.36	NA
NA	08-22-96	2030	.36	NA
NA	08-22-96	2100	.36	NA
NA	08-22-96	2130	.36	NA
NA	08-22-96	2200	.36	NA
NA	08-22-96	2230	.36	NA
NA	08-22-96	2300	.36	NA
NA	08-22-96	2330	.36	NA
NA	08-23-96	2400	.36	NA
NA	08-23-96	0030	.36	NA
NA	08-23-96	0100	.36	NA
NA	08-23-96	0130	.36	NA
NA	08-23-96	0200	.36	NA
NA	08-23-96	0230	.36	NA
NA	08-23-96	0300	.36	NA
NA	08-23-96	0330	.36	NA
NA	08-23-96	0400	.36	NA
NA	08-23-96	0430	.36	NA
NA	08-23-96	0500	.35	NA
NA	08-23-96	0530	.36	NA
NA	08-23-96	0600	.35	NA
NA	08-23-96	0630	.36	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-23-96	0700	0.36	NA
NA	08-23-96	0730	.36	NA
NA	08-23-96	0800	.35	NA
NA	08-23-96	0830	.35	NA
NA	08-23-96	0900	.34	NA
NA	08-23-96	0930	.35	NA
NA	08-23-96	1000	.34	NA
NA	08-23-96	1030	.34	NA
NA	08-23-96	1100	.34	NA
NA	08-23-96	1130	.34	NA
NA	08-23-96	1200	.34	NA
NA	08-23-96	1230	.34	NA
NA	08-23-96	1300	.33	NA
NA	08-23-96	1330	.33	NA
NA	08-23-96	1400	.31	NA
NA	08-23-96	1500	.32	NA
NA	08-23-96	1530	.31	NA
NA	08-23-96	1600	.31	NA
NA	08-23-96	1630	.31	NA
NA	08-23-96	1700	.31	NA
NA	08-23-96	1730	.31	NA
NA	08-23-96	1800	.31	NA
NA	08-23-96	1830	.30	NA
NA	08-23-96	1900	.30	NA
NA	08-23-96	1930	.30	NA
NA	08-23-96	2000	.31	NA
NA	08-23-96	2030	.30	NA
NA	08-23-96	2100	.30	NA
NA	08-23-96	2130	.29	NA
NA	08-23-96	2200	.30	NA
NA	08-23-96	2230	.30	NA
NA	08-23-96	2300	.30	NA
NA	08-23-96	2330	.30	NA
NA	08-24-96	2400	.30	NA
NA	08-24-96	0030	.29	NA
NA	08-24-96	0100	.29	NA
NA	08-24-96	0130	.29	NA
NA	08-24-96	0200	.29	NA
NA	08-24-96	0230	.29	NA
NA	08-24-96	0300	.29	NA
NA	08-24-96	0330	.29	NA
NA	08-24-96	0400	.29	NA
NA	08-24-96	0430	.29	NA
NA	08-24-96	0500	.29	NA
NA	08-24-96	0530	.29	NA
NA	08-24-96	0600	.29	NA
NA	08-24-96	0630	.29	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-24-96	0200	0.29	NA
NA	08-24-96	0230	.29	NA
NA	08-24-96	0300	.29	NA
NA	08-24-96	0330	.28	NA
NA	08-24-96	0400	.29	NA
NA	08-24-96	0430	.29	NA
NA	08-24-96	0500	.28	NA
NA	08-24-96	0530	.29	NA
NA	08-24-96	0600	.29	NA
NA	08-24-96	0630	.29	NA
NA	08-24-96	0700	.29	NA
NA	08-24-96	0730	.29	NA
NA	08-24-96	0800	.29	NA
NA	08-24-96	0830	.29	NA
NA	08-24-96	0900	.29	NA
NA	08-24-96	0930	.29	NA
NA	08-24-96	1000	.29	NA
NA	08-24-96	1030	.29	NA
NA	08-24-96	1100	.29	NA
NA	08-24-96	1130	.30	NA
NA	08-24-96	1200	.29	NA
NA	08-24-96	1230	.28	NA
NA	08-24-96	1300	.29	NA
NA	08-24-96	1330	.29	NA
NA	08-24-96	1400	.28	NA
NA	08-24-96	1430	.29	NA
NA	08-24-96	1500	.28	NA
NA	08-24-96	1530	.27	NA
NA	08-24-96	1600	.28	NA
NA	08-24-96	1630	.28	NA
NA	08-24-96	1700	.28	NA
NA	08-24-96	1730	.27	NA
NA	08-24-96	1800	.27	NA
NA	08-24-96	1830	.27	NA
NA	08-24-96	1900	.28	NA
NA	08-24-96	1930	.27	NA
NA	08-24-96	2000	.28	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-24-96	2034	0.27	NA
NA	08-24-96	2100	.27	NA
NA	08-24-96	2130	.27	NA
NA	08-24-96	2200	.27	NA
NA	08-24-96	2230	.27	NA
NA	08-24-96	2300	.27	NA
NA	08-24-96	2330	.28	NA
NA	08-25-96	2400	.27	NA
NA	08-25-96	0030	.28	NA
NA	08-25-96	0100	.27	NA
NA	08-25-96	0130	.27	NA
NA	08-25-96	0200	.27	NA
NA	08-25-96	0230	.27	NA
NA	08-25-96	0300	.27	NA
NA	08-25-96	0330	.26	NA
NA	08-25-96	04:00	.27	NA
NA	08-25-96	0430	.26	NA
NA	08-25-96	0500	.27	NA
NA	08-25-96	0530	.27	NA
NA	08-25-96	0600	.27	NA
NA	08-25-96	0630	.27	NA
NA	08-25-96	0700	.27	NA
NA	08-25-96	0730	.27	NA
NA	08-25-96	0800	.28	NA
NA	08-25-96	0830	.27	NA
NA	08-25-96	0900	.28	NA
NA	08-25-96	0930	.27	NA
NA	08-25-96	1000	.27	NA
NA	08-25-96	1030	.28	NA
NA	08-25-96	1100	.27	NA
NA	08-25-96	1130	.27	NA
NA	08-25-96	1200	.27	NA
NA	08-25-96	1230	.27	NA
NA	08-25-96	1300	.27	NA
NA	08-25-96	1330	.27	NA
NA	08-25-96	1400	.27	NA
NA	08-25-96	1430	.27	NA
NA	08-25-96	1500	.27	NA
NA	08-25-96	1530	.27	NA
NA	08-25-96	1600	.27	NA
NA	08-25-96	1630	.27	NA
NA	08-25-96	1700	.27	NA
NA	08-25-96	1730	.27	NA
NA	08-25-96	1800	.27	NA
NA	08-25-96	1830	.27	NA
NA	08-25-96	1900	.27	NA
NA	08-25-96	1930	.27	NA
NA	08-25-96	2000	.27	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-25-96	1500	0.27	NA
NA	08-25-96	1530	.26	NA
NA	08-25-96	1600	.26	NA
NA	08-25-96	1630	.26	NA
NA	08-25-96	1700	.26	NA
NA	08-25-96	1730	.27	NA
NA	08-25-96	1800	.27	NA
NA	08-25-96	1830	.26	NA
NA	08-25-96	1900	.26	NA
NA	08-25-96	1930	.26	NA
NA	08-25-96	2000	.26	NA
NA	08-25-96	2030	.25	NA
NA	08-25-96	2100	.26	NA
NA	08-25-96	2100	.26	NA
NA	08-25-96	2200	.25	NA
NA	08-25-96	2230	.26	NA
NA	08-25-96	2300	.26	NA
NA	08-25-96	2330	.25	NA
NA	08-26-96	2400	.25	NA
NA	08-26-96	0030	.26	NA
NA	08-26-96	0100	.25	NA
NA	08-26-96	0130	.25	NA
NA	08-26-96	0200	.25	NA
NA	08-26-96	0230	.25	NA
NA	08-26-96	0300	.26	NA
NA	08-26-96	0330	.25	NA
NA	08-26-96	0400	.26	NA
NA	08-26-96	0430	.26	NA
NA	08-26-96	0500	.26	NA
NA	08-26-96	0530	.26	NA
NA	08-26-96	0600	.25	NA
NA	08-26-96	0630	.25	NA
NA	08-26-96	0700	.25	NA
NA	08-26-96	0730	.32	NA
NA	08-26-96	0800	.34	NA
NA	08-26-96	0830	.33	NA
NA	08-26-96	0900	.33	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-26-96	0930	0.33	NA
NA	08-26-96	1000	.33	NA
NA	08-26-96	1030	.33	NA
NA	08-26-96	1100	.32	NA
NA	08-26-96	1130	.34	NA
NA	08-26-96	1200	.36	NA
NA	08-26-96	1230	.32	NA
NA	08-26-96	1300	.32	NA
NA	08-26-96	1330	.34	NA
NA	08-26-96	1400	.33	NA
NA	08-26-96	1430	.35	NA
NA	08-26-96	1500	.32	NA
NA	08-26-96	1530	.32	NA
NA	08-26-96	1600	.32	NA
NA	08-26-96	1630	.31	NA
NA	08-26-96	1700	.33	NA
NA	08-26-96	1730	.32	NA
NA	08-26-96	1800	.33	NA
NA	08-26-96	1900	.33	NA
NA	08-26-96	1930	.32	NA
NA	08-26-96	2000	.32	NA
NA	08-26-96	2034	.32	NA
NA	08-26-96	2100	.32	NA
NA	08-26-96	2130	.32	NA
NA	08-26-96	2200	.33	NA
NA	08-26-96	2230	.32	NA
NA	08-26-96	2300	.32	NA
NA	08-26-96	2330	.31	NA
NA	08-26-96	2400	.32	NA
NA	08-27-96	0030	.32	NA
NA	08-27-96	0100	.32	NA
NA	08-27-96	0130	.32	NA
NA	08-27-96	0200	.32	NA
NA	08-27-96	0230	.32	NA
NA	08-27-96	0300	.32	NA
NA	08-27-96	0330	.32	NA
NA	08-27-96	0400	.32	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	08-27-96	0430	0.31	NA
NA	08-27-96	0500	.31	NA
NA	08-27-96	0530	.31	NA
NA	08-27-96	0600	.31	NA
NA	08-27-96	0630	.32	NA
NA	08-27-96	0700	.31	NA
NA	08-27-96	0730	.31	NA
NA	08-27-96	0800	.32	NA
NA	08-27-96	0830	.31	NA
NA	08-27-96	0900	.32	NA
NA	08-27-96	0930	.31	NA
NA	08-27-96	1000	.30	NA
NA	08-27-96	1030	.30	NA
NA	08-27-96	1100	.31	NA
NA	08-27-96	1130	.30	NA
NA	08-27-96	1200	.31	NA
NA	08-27-96	1230	.30	NA
NA	08-27-96	1300	.30	NA
NA	08-27-96	1330	.31	NA
<b>Collector Well W90-2H</b>				
NA	08-20-96	0711	.17	NA
NA	08-20-96	0735	.18	NA
NA	08-20-96	0805	.18	NA
NA	08-20-96	0835	.18	NA
NA	08-20-96	0905	.18	NA
NA	08-20-96	0935	.18	NA
NA	08-20-96	10:05	.18	NA
NA	08-20-96	1035	.18	NA
NA	08-20-96	1105	.18	NA
NA	08-20-96	1135	.18	NA
NA	08-20-96	1205	.19	NA
NA	08-20-96	1235	.18	NA
NA	08-20-96	1305	.18	NA
NA	08-20-96	1335	.18	NA
NA	08-20-96	1405	.18	NA
NA	08-20-96	1435	.18	NA
NA	08-20-96	1505	.18	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-20-96	1535	0.18	NA
NA	08-20-96	1605	.18	NA
NA	08-20-96	1635	.18	NA
NA	08-20-96	1705	.18	NA
NA	08-20-96	1735	.18	NA
NA	08-20-96	1805	.18	NA
NA	08-20-96	1835	.18	NA
NA	08-20-96	1905	.19	NA
NA	08-20-96	1935	.19	NA
NA	08-20-96	2005	.20	NA
NA	08-20-96	2035	.20	NA
NA	08-20-96	2105	.21	NA
NA	08-20-96	2135	.22	NA
NA	08-20-96	2205	.24	NA
NA	08-20-96	2235	.26	NA
NA	08-20-96	2305	.27	NA
NA	08-20-96	2335	.30	NA
NA	08-21-96	0005	.33	NA
NA	08-21-96	0035	.35	NA
NA	08-21-96	0105	.37	NA
NA	08-21-96	0135	.39	NA
NA	08-21-96	0205	.40	NA
NA	08-21-96	0235	.42	NA
NA	08-21-96	0305	.44	NA
NA	08-21-96	0335	.46	NA
NA	08-21-96	0405	.48	NA
NA	08-21-96	0435	.48	NA
NA	08-21-96	0505	.49	NA
NA	08-21-96	0535	.52	NA
NA	08-21-96	0605	.54	NA
NA	08-21-96	0635	.54	NA
NA	08-21-96	0705	.55	NA
NA	08-21-96	0735	.56	NA
NA	08-21-96	0805	.54	NA
NA	08-21-96	0835	.56	NA
NA	08-21-96	0905	.56	NA
NA	08-21-96	0935	.55	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-21-96	0950	0.54	NA
NA	08-21-96	1005	.55	NA
NA	08-21-96	1020	.55	NA
NA	08-21-96	1035	.56	NA
NA	08-21-96	1053	.55	NA
NA	08-21-96	1105	.55	NA
NA	08-21-96	1120	.54	NA
NA	08-21-96	1135	.54	NA
NA	08-21-96	1150	.54	NA
NA	08-21-96	1205	.54	NA
NA	08-21-96	1220	.52	NA
NA	08-21-96	1235	.53	NA
NA	08-21-96	1250	.52	NA
NA	08-21-96	1305	.52	NA
NA	08-21-96	1320	.51	NA
NA	08-21-96	1335	.51	NA
NA	08-21-96	1350	.49	NA
NA	08-21-96	1405	.50	NA
NA	08-21-96	1435	.49	NA
NA	08-21-96	1450	.49	NA
NA	08-21-96	1505	.48	NA
NA	08-21-96	1535	.48	NA
NA	08-21-96	1605	.47	NA
NA	08-21-96	1635	.46	NA
NA	08-21-96	1705	.45	NA
NA	08-21-96	1735	.45	NA
NA	08-21-96	1805	.46	NA
NA	08-21-96	1835	.45	NA
NA	08-21-96	1905	.44	NA
NA	08-21-96	1935	.44	NA
NA	08-21-96	2005	.44	NA
NA	08-21-96	2035	.44	NA
NA	08-21-96	2105	.44	NA
NA	08-21-96	2135	.45	NA
NA	08-21-96	2205	.44	NA
NA	08-21-96	2235	.44	NA
NA	08-21-96	2305	.45	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-21-96	2330	0.45	NA
NA	08-22-96	0005	.46	NA
NA	08-22-96	0035	.46	NA
NA	08-22-96	0105	.46	NA
NA	08-22-96	0135	.47	NA
NA	08-22-96	0205	.46	NA
NA	08-22-96	0235	.46	NA
NA	08-22-96	0305	.47	NA
NA	08-22-96	0335	.47	NA
NA	08-22-96	0405	.47	NA
NA	08-22-96	0435	.47	NA
NA	08-22-96	0505	.48	NA
NA	08-22-96	0535	.47	NA
NA	08-22-96	0605	.47	NA
NA	08-22-96	0635	.48	NA
NA	08-22-96	0705	.39	NA
NA	08-22-96	0735	.46	NA
NA	08-22-96	0805	.45	NA
NA	08-22-96	0835	.46	NA
NA	08-22-96	0905	.45	NA
NA	08-22-96	0935	.46	NA
NA	08-22-96	1005	.44	NA
NA	08-22-96	1035	.44	NA
NA	08-22-96	1105	.44	NA
NA	08-22-96	1135	.43	NA
NA	08-22-96	1205	.44	NA
NA	08-22-96	1235	.43	NA
NA	08-22-96	1305	.43	NA
NA	08-22-96	1335	.42	NA
NA	08-22-96	1405	.43	NA
NA	08-22-96	1435	.42	NA
NA	08-22-96	1505	.43	NA
NA	08-22-96	1535	.43	NA
NA	08-22-96	1606	.43	NA
NA	08-22-96	1635	.43	NA
NA	08-22-96	1705	.43	NA
NA	08-22-96	1735	.42	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-22-96	1805	0.43	NA
NA	08-22-96	1835	.43	NA
NA	08-22-96	1905	.41	NA
NA	08-22-96	1935	.41	NA
NA	08-22-96	2005	.42	NA
NA	08-22-96	2105	.41	NA
NA	08-22-96	2135	.41	NA
NA	08-22-96	2205	.41	NA
NA	08-22-96	2235	.40	NA
NA	08-22-96	2305	.40	NA
NA	08-22-96	2335	.40	NA
NA	08-23-96	0005	.39	NA
NA	08-23-96	0035	.39	NA
NA	08-23-96	0105	.38	NA
NA	08-23-96	0135	.39	NA
NA	08-23-96	0205	.38	NA
NA	08-23-96	0235	.38	NA
NA	08-23-96	0305	.38	NA
NA	08-23-96	0335	.37	NA
NA	08-23-96	0405	.38	NA
NA	08-23-96	0435	.36	NA
NA	08-23-96	0505	.35	NA
NA	08-23-96	0535	.35	NA
NA	08-23-96	0605	.35	NA
NA	08-23-96	0635	.35	NA
NA	08-23-96	0705	.34	NA
NA	08-23-96	0735	.35	NA
NA	08-23-96	0805	.34	NA
NA	08-23-96	0835	.35	NA
NA	08-23-96	0905	.34	NA
NA	08-23-96	0935	.33	NA
NA	08-23-96	1005	.32	NA
NA	08-23-96	1035	.33	NA
NA	08-23-96	1105	.33	NA
NA	08-23-96	1135	.27	NA
NA	08-23-96	1205	.27	NA
NA	08-23-96	1235	.27	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-23-96	1305	0.26	NA
NA	08-23-96	1335	.26	NA
NA	08-23-96	1405	.27	NA
NA	08-23-96	1505	.25	NA
NA	08-23-96	1535	.24	NA
NA	08-23-96	1606	.23	NA
NA	08-23-96	1635	.23	NA
NA	08-23-96	1705	.23	NA
NA	08-23-96	1735	.23	NA
NA	08-23-96	1805	.23	NA
NA	08-23-96	1835	.23	NA
NA	08-23-96	1905	.23	NA
NA	08-23-96	1935	.22	NA
NA	08-23-96	2005	.23	NA
NA	08-23-96	2035	.22	NA
NA	08-23-96	2105	.23	NA
NA	08-23-96	2135	.22	NA
NA	08-23-96	2205	.22	NA
NA	08-23-96	2235	.22	NA
NA	08-23-96	2305	.23	NA
NA	08-23-96	2335	.22	NA
NA	08-23-96	2305	.23	NA
NA	08-23-96	2335	.22	NA
NA	08-24-96	2405	.23	NA
NA	08-24-96	2435	.23	NA
NA	08-24-96	0105	.22	NA
NA	08-24-96	0135	.22	NA
NA	08-24-96	0205	.23	NA
NA	08-24-96	0235	.23	NA
NA	08-24-96	0305	.22	NA
NA	08-24-96	0335	.22	NA
NA	08-24-96	0405	.21	NA
NA	08-24-96	0435	.21	NA
NA	08-24-96	0505	.21	NA
NA	08-24-96	0535	.21	NA
NA	08-24-96	0605	.21	NA
NA	08-24-96	0635	.21	NA
NA	08-24-96	0705	.21	NA
NA	08-24-96	0735	.22	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-24-96	0805	0.22	NA
NA	08-24-96	0835	.22	NA
NA	08-24-96	0905	.21	NA
NA	08-24-96	0935	.21	NA
NA	08-24-96	1005	.21	NA
NA	08-24-96	1035	.21	NA
NA	08-24-96	1105	.21	NA
NA	08-24-96	1135	.22	NA
NA	08-24-96	1205	.22	NA
NA	08-24-96	1235	.21	NA
NA	08-24-96	1305	.21	NA
NA	08-24-96	1335	.22	NA
NA	08-24-96	1405	.21	NA
NA	08-24-96	1435	.21	NA
NA	08-24-96	1505	.21	NA
NA	08-24-96	1535	.21	NA
NA	08-24-96	1605	.21	NA
NA	08-24-96	1635	.20	NA
NA	08-24-96	1705	.21	NA
NA	08-24-96	1735	.20	NA
NA	08-24-96	1805	.20	NA
NA	08-24-96	1835	.20	NA
NA	08-24-96	1905	.20	NA
NA	08-24-96	1935	.19	NA
NA	08-24-96	2005	.21	NA
NA	08-24-96	2035	.19	NA
NA	08-24-96	2105	.21	NA
NA	08-24-96	2135	.21	NA
NA	08-24-96	2205	.21	NA
NA	08-24-96	2235	.19	NA
NA	08-24-96	2305	.20	NA
NA	08-24-96	2335	.21	NA
NA	08-25-96	0005	.21	NA
NA	08-25-96	0035	.21	NA
NA	08-25-96	0105	.21	NA
NA	08-25-96	0135	.21	NA
NA	08-25-96	0205	.20	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-25-96	0235	0.20	NA
NA	08-25-96	0305	.20	NA
NA	08-25-96	0335	.20	NA
NA	08-25-96	0405	.21	NA
NA	08-25-96	0435	.19	NA
NA	08-25-96	0505	.20	NA
NA	08-25-96	0535	.20	NA
NA	08-25-96	0605	.21	NA
NA	08-25-96	0635	.20	NA
NA	08-25-96	0705	.20	NA
NA	08-25-96	0735	.20	NA
NA	08-25-96	0805	.20	NA
NA	08-25-96	0835	.20	NA
NA	08-25-96	0905	.21	NA
NA	08-25-96	0935	.20	NA
NA	08-25-96	10:05	.20	NA
NA	08-25-96	1035	.21	NA
NA	08-25-96	1105	.21	NA
NA	08-25-96	1135	.21	NA
NA	08-25-96	1205	.20	NA
NA	08-25-96	1235	.20	NA
NA	08-25-96	1305	.20	NA
NA	08-25-96	1335	.20	NA
NA	08-25-96	1405	.19	NA
NA	08-25-96	1435	.20	NA
NA	08-25-96	1505	.20	NA
NA	08-25-96	1535	.20	NA
NA	08-25-96	1605	.21	NA
NA	08-25-96	1635	.21	NA
NA	08-25-96	1705	.21	NA
NA	08-25-96	1735	.20	NA
NA	08-25-96	1805	.20	NA
NA	08-25-96	1835	.20	NA
NA	08-25-96	1905	.20	NA
NA	08-25-96	1935	.19	NA
NA	08-25-96	2005	.21	NA
NA	08-25-96	2035	.20	NA
NA	08-25-96	2105	.21	NA
NA	08-25-96	2135	.21	NA
NA	08-25-96	2205	.21	NA
NA	08-25-96	2235	.19	NA
NA	08-25-96	2305	.20	NA
NA	08-25-96	2335	.21	NA
NA	08-25-96	0005	.21	NA
NA	08-25-96	0035	.21	NA
NA	08-25-96	0105	.21	NA
NA	08-25-96	0135	.21	NA
NA	08-25-96	0205	.20	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-25-96	2105	0.33	NA
NA	08-25-96	2135	.34	NA
NA	08-25-96	2205	.34	NA
NA	08-25-96	2235	.33	NA
NA	08-25-96	2305	.34	NA
NA	08-25-96	2335	.34	NA
NA	08-26-96	0005	.35	NA
NA	08-26-96	0035	.34	NA
NA	08-26-96	0105	.34	NA
NA	08-26-96	0135	.33	NA
NA	08-26-96	0205	.34	NA
NA	08-26-96	0235	.34	NA
NA	08-26-96	0305	.34	NA
NA	08-26-96	0335	.34	NA
NA	08-26-96	0405	.34	NA
NA	08-26-96	0435	.33	NA
NA	08-26-96	0505	.34	NA
NA	08-26-96	0535	.34	NA
NA	08-26-96	0605	.34	NA
NA	08-26-96	0635	.34	NA
NA	08-26-96	0705	.33	NA
NA	08-26-96	0735	.24	NA
NA	08-26-96	0805	.21	NA
NA	08-26-96	0835	.20	NA
NA	08-26-96	0905	.21	NA
NA	08-26-96	0935	.22	NA
NA	08-26-96	1005	.22	NA
NA	08-26-96	1035	.21	NA
NA	08-26-96	1105	.21	NA
NA	08-26-96	1135	.20	NA
NA	08-26-96	1205	.20	NA
NA	08-26-96	1235	.20	NA
NA	08-26-96	1305	.20	NA
NA	08-26-96	13:35	.22	NA
NA	08-26-96	1405	.20	NA
NA	08-26-96	1435	.21	NA
NA	08-26-96	1505	.20	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-26-96	1535	0.20	NA
NA	08-26-96	1605	.20	NA
NA	08-26-96	1635	.20	NA
NA	08-26-96	1705	.20	NA
NA	08-26-96	1735	.19	NA
NA	08-26-96	1805	.20	NA
NA	08-26-96	1835	.21	NA
NA	08-26-96	1905	.22	NA
NA	08-26-96	1935	.19	NA
NA	08-26-96	2005	.19	NA
NA	08-26-96	2035	.19	NA
NA	08-26-96	2105	.21	NA
NA	08-26-96	2135	.20	NA
NA	08-26-96	2205	.19	NA
NA	08-26-96	2235	.20	NA
NA	08-26-96	2305	.20	NA
NA	08-26-96	2335	.20	NA
NA	08-26-96	0005	.24	NA
NA	08-27-96	0035	.16	NA
NA	08-27-96	0105	.20	NA
NA	08-27-96	0135	.22	NA
NA	08-27-96	0205	.20	NA
NA	08-27-96	0235	.19	NA
NA	08-27-96	0305	.19	NA
NA	08-27-96	0335	.19	NA
NA	08-27-96	0405	.19	NA
NA	08-27-96	0435	.19	NA
NA	08-27-96	0505	.19	NA
NA	08-27-96	0535	.18	NA
NA	08-27-96	0605	.20	NA
NA	08-27-96	0635	.20	NA
NA	08-27-96	0705	.20	NA
NA	08-27-96	0735	.19	NA
NA	08-27-96	0805	.19	NA
NA	08-27-96	0835	.19	NA
NA	08-27-96	0905	.19	NA
NA	08-27-96	0935	.18	NA

**Table B-4.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on August 19, 1996, at 1030 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	08-27-96	1005	0.19	NA
NA	08-27-96	1035	.18	NA
NA	08-27-96	1105	.19	NA
NA	08-27-96	1135	.19	NA
NA	08-27-96	1205	.18	NA
NA	08-27-96	1235	.18	NA
NA	08-27-96	1305	.18	NA
NA	08-27-96	1335	.20	NA

**Table B-5.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on September 9, 1996, at 1000 A.M.

[ft, foot  $\mu\text{g/L}$ , micrograms per liter; NA, not applicable; <, less than]

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location	Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)</b>									
81	09-09-96	2217	22	Vertical #1	95	09-09-96	2045	0.21	Centroid
81	09-09-96	2250	82	Vertical #1	95	09-09-96	2100	.21	Centroid
81	09-10-96	0000	30	Vertical #1	95	09-09-96	2110	.26	Centroid
171	09-09-96	2218	3.5	Vertical #2	95	09-09-96	2120	.21	Centroid
171	09-09-96	2250	44	Vertical #2	95	09-09-96	2130	.36	Centroid
171	09-10-96	0001	11	Vertical #2	95	09-09-96	2140	.31	Centroid
261	09-09-96	2219	1.9	Vertical #3	95	09-09-96	2150	.36	Centroid
261	09-09-96	2251	38	Vertical #3	95	09-09-96	2200	.26	Centroid
261	09-10-96	0000	1.3	Vertical #3	95	09-09-96	2205	.21	Centroid
351	09-09-96	2220	2.0	Vertical #4	95	09-09-96	2210	.21	Centroid
351	09-09-96	2250	38	Vertical #4	95	09-09-96	2215	1.6	Centroid
351	09-10-96	0001	1.2	Vertical #4	95	09-09-96	2220	2.5	Centroid
466	09-09-96	2215	1.3	Vertical #5	95	09-09-96	2223	3.9	Centroid
466	09-09-96	2250	38	Vertical #5	95	09-09-96	1800	23	Centroid
466	09-10-96	0001	1.1	Vertical #5	95	09-09-96	1700	36	Centroid
582	09-09-96	2216	1.5	Vertical #6	95	09-09-96	1600	46	Centroid
582	09-09-96	2251	36	Vertical #6	95	09-09-96	2304	43	Centroid
582	09-10-96	0000	1.1	Vertical #6	95	09-09-96	2310	58	Centroid
687	09-09-96	2218	1.3	Vertical #7	95	09-18-96	1015	60	Centroid
687	09-09-96	2250	35	Vertical #7	95	09-16-96	0915	71	Centroid
687	09-10-96	0001	1.1	Vertical #7	95	09-15-96	1730	75	Centroid
800	09-09-96	2219	1.4	Vertical #8	95	09-14-96	0940	79	Centroid
800	09-09-96	2251	35	Vertical #8	95	09-13-96	0725	76	Centroid
800	09-10-96	0002	1.0	Vertical #8	95	09-09-96	2226	80	Centroid
890	09-09-96	2219	.72	Vertical #9	95	09-09-96	2228	86	Centroid
890	09-09-96	2251	34	Vertical #9	95	09-09-96	2232	86	Centroid
890	09-10-96	0000	1.3	Vertical #9	95	09-09-96	2236	80	Centroid
1,207	09-09-96	2220	.54	Vertical #10	95	09-09-96	2239	82	Centroid
1,207	09-09-96	2253	36	Vertical #10	95	09-09-96	2242	84	Centroid
1,207	09-10-96	0001	1.7	Vertical #10	95	09-09-96	2245	79	Centroid
95	09-09-96	1900	.21	Centroid	95	09-09-96	2248	64	Centroid
95	09-09-96	2015	.21	Centroid	95	09-09-96	2252	54	Centroid
95	09-09-96	2000	.26	Centroid	95	09-09-96	2255	46	Centroid
95	09-09-96	2030	.21	Centroid	95	09-12-96	0905	38	Centroid

**Table B-5.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on September 9, 1996, at 1000 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
95	09-10-96	0030	31	Centroid
95	09-09-96	2320	25	Centroid
95	09-10-96	0015	25	Centroid
95	09-09-96	2301	15	Centroid
95	09-09-96	2358	13	Centroid
95	09-11-96	1430	8.1	Centroid
95	09-10-96	1000	.71	Centroid
95	09-10-96	0100	.14	Centroid
95	09-10-96	0045	.17	Centroid
95	09-09-96	2258	.15	Centroid
95	09-09-96	2350	.13	Centroid
95	09-10-96	0005	.12	Centroid
95	09-09-96	2320	.16	Centroid
95	09-09-96	2340	.15	Centroid
<b>Platte River island bridge, City of Lincoln well field</b>				
100	09-09-96	2300	18	Vertical #1
200	09-09-96	2301	35	Vertical #2
250	09-09-96	2302	42	Vertical #3
320	09-09-96	2303	46	Vertical #4
400	09-09-96	2304	44	Vertical #5
<b>Collector Well W90-1H</b>				
NA	09-10-96	1055	.14	NA
NA	09-10-96	1155	.14	NA
NA	09-10-96	1255	.15	NA
NA	09-10-96	1400	.14	NA
NA	09-10-96	1500	.14	NA
NA	09-10-96	1600	.16	NA
NA	09-10-96	1655	.14	NA
NA	09-10-96	1755	.15	NA
NA	09-10-96	1855	.16	NA
NA	09-10-96	2000	.18	NA
NA	09-10-96	2100	.20	NA
NA	09-10-96	2155	.23	NA
NA	09-10-96	2225	.25	NA
NA	09-10-96	2255	.26	NA
NA	09-10-96	2325	.29	NA

**Table B-5.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on September 9, 1996, at 1000 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	09-10-96	2355	0.30	NA
NA	09-10-96	2425	.31	NA
NA	09-10-96	2455	.33	NA
NA	09-11-96	0125	.33	NA
NA	09-11-96	0155	.34	NA
NA	09-11-96	0225	.34	NA
NA	09-11-96	0255	.35	NA
NA	09-11-96	0355	.36	NA
NA	09-11-96	0425	.37	NA
NA	09-11-96	0455	.37	NA
NA	09-11-96	0525	.38	NA
NA	09-11-96	0555	.39	NA
NA	09-11-96	0625	.41	NA
NA	09-11-96	0705	.43	NA
NA	09-11-96	0730	.43	NA
NA	09-11-96	0800	.43	NA
NA	09-11-96	0830	.44	NA
NA	09-11-96	0900	.44	NA
NA	09-11-96	0930	.45	NA
NA	09-11-96	1000	.45	NA
NA	09-11-96	1030	.45	NA
NA	09-11-96	1100	.45	NA
NA	09-11-96	1130	.46	NA
NA	09-11-96	1200	.46	NA
NA	09-11-96	1230	.46	NA
NA	09-11-96	1300	.45	NA
NA	09-11-96	1330	.47	NA
NA	09-11-96	1400	.48	NA
NA	09-11-96	1440	.48	NA
NA	09-11-96	1455	.48	NA
NA	09-11-96	1530	.48	NA
NA	09-11-96	1600	.48	NA
NA	09-11-96	1630	.48	NA
NA	09-11-96	1700	.48	NA
NA	09-11-96	1730	.48	NA
NA	09-11-96	1800	.49	NA
NA	09-11-96	1830	.48	NA

**Table B-5.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on September 9, 1996, at 1000 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	09-11-96	1900	0.49	NA
NA	09-11-96	1930	.49	NA
NA	09-11-96	2000	.48	NA
NA	09-11-96	2100	.49	NA
NA	09-11-96	2200	.49	NA
NA	09-11-96	2320	.48	NA
NA	09-12-96	0019	.49	NA
NA	09-12-96	0120	.48	NA
NA	09-12-96	0217	.47	NA
NA	09-12-96	0321	.47	NA
NA	09-12-96	0416	.47	NA
NA	09-12-96	0518	.48	NA
NA	09-12-96	0618	.47	NA
NA	09-12-96	0641	.06	Blank
NA	09-12-96	0645	.47	NA
NA	09-12-96	0646	.47	NA
NA	09-12-96	0647	.47	NA
NA	09-12-96	0648	.47	NA
NA	09-12-96	0649	.47	NA
NA	09-12-96	0724	.48	NA
NA	09-12-96	0820	.47	NA
NA	09-12-96	0955	.48	NA
NA	09-12-96	1155	.47	NA
NA	09-12-96	1355	.46	NA
NA	09-12-96	2130	.41	NA
NA	09-13-96	0740	.36	NA
NA	09-13-96	2130	.34	NA
NA	09-14-96	0950	.28	NA
NA	09-15-96	1830	.27	NA
NA	09-16-96	0930	.24	NA
NA	09-18-96	1120	.20	NA
<b>Collector Well W90-2H</b>				
NA	09-10-96	1100	.15	NA
NA	09-10-96	1200	.15	NA
NA	09-10-96	1300	.16	NA
NA	09-10-96	1405	.16	NA
NA	09-10-96	1505	.15	NA

**Table B-5.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on September 9, 1996, at 1000 A.M.  
--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	09-10-96	1605	0.16	NA
NA	09-10-96	1700	.15	NA
NA	09-10-96	1800	.16	NA
NA	09-10-96	1900	.17	NA
NA	09-10-96	1955	.18	NA
NA	09-10-96	2055	.23	NA
NA	09-10-96	2200	.20	NA
NA	09-10-96	2230	.35	NA
NA	09-10-96	2300	.41	NA
NA	09-10-96	2330	.48	NA
NA	09-10-96	2400	.54	NA
NA	09-10-96	2430	.61	NA
NA	09-11-96	0100	.66	NA
NA	09-11-96	0130	.69	NA
NA	09-11-96	0200	.74	NA
NA	09-11-96	0230	.76	NA
NA	09-11-96	0300	.82	NA
NA	09-11-96	0400	.82	NA
NA	09-11-96	0430	.82	NA
NA	09-11-96	0500	.80	NA
NA	09-11-96	0530	.80	NA
NA	09-11-96	0600	.76	NA
NA	09-11-96	0630	.76	NA
NA	09-11-96	0710	.74	NA
NA	09-11-96	0740	.72	NA
NA	09-11-96	0810	.70	NA
NA	09-11-96	0835	.70	NA
NA	09-11-96	0905	.66	NA
NA	09-11-96	0935	.62	NA
NA	09-11-96	1005	.61	NA
NA	09-11-96	1035	.60	NA
NA	09-11-96	1105	.59	NA
NA	09-11-96	1135	.56	NA
NA	09-11-96	1205	.56	NA
NA	09-11-96	1235	.54	NA
NA	09-11-96	1305	.54	NA

**Table B-5.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on September 9, 1996, at 1000 A.M.

--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	09-11-96	1335	0.52	NA
NA	09-11-96	1410	.52	NA
NA	09-11-96	1435	.51	NA
NA	09-11-96	1500	.49	NA
NA	09-11-96	1525	.49	NA
NA	09-11-96	1555	.49	NA
NA	09-11-96	1625	.48	NA
NA	09-11-96	1655	.47	NA
NA	09-11-96	1725	.47	NA
NA	09-11-96	1755	.47	NA
NA	09-11-96	1825	.47	NA
NA	09-11-96	1855	.46	NA
NA	09-11-96	1925	.46	NA
NA	09-11-96	1955	.45	NA
NA	09-11-96	2055	.45	NA
NA	09-11-96	2155	.44	NA
NA	09-11-96	2315	.44	NA
NA	09-12-96	0012	.44	NA
NA	09-12-96	0113	.43	NA
NA	09-12-96	0211	.42	NA
NA	09-12-96	0313	.43	NA
NA	09-12-96	0408	.43	NA
NA	09-12-96	0511	.43	NA
NA	09-12-96	0628	.42	NA
NA	09-12-96	0711	.42	NA
NA	09-12-96	825	.43	NA
NA	09-12-96	1000	.43	NA
NA	09-12-96	1200	.43	NA
NA	09-12-96	1400	.43	NA
NA	09-13-96	2135	.40	NA
NA	09-13-96	0735	.34	NA
NA	09-13-96	2125	.29	NA
NA	09-14-96	0945	.27	NA
NA	09-15-96	1835	.25	NA
NA	09-16-96	0925	.24	NA
NA	09-18-96	1115	.19	NA

**Table B-6.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on October 23, 1996, at 915 A.M.

[ft, foot;  $\mu\text{g/L}$ , micrograms per liter; NA, not applicable; <, less than]

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location	Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)</b>									
83	10-23-96	1656	26	Vertical #1	92	10-25-96	1045	0.10	Centroid
83	10-23-96	1716	76	Vertical #1	92	10-29-96	1100	.10	Centroid
83	10-23-96	1830	29	Vertical #1	92	10-23-96	1620	.10	Centroid
173	10-23-96	1655	24	Vertical #2	92	10-23-96	1630	.10	Centroid
173	10-23-96	1715	64	Vertical #2	92	10-23-96	1640	.80	Centroid
173	10-23-96	1830	16	Vertical #2	92	10-23-96	1645	3.2	Centroid
263	10-23-96	1656	13	Vertical #3	92	10-23-96	1645	3.6	Duplicate
263	10-23-96	1716	31	Vertical #3	92	10-23-96	1650	14	Centroid
263	10-23-96	1831	6.6	Vertical #3	92	10-23-96	1655	26	Centroid
353	10-23-96	1657	9.1	Vertical #4	92	10-23-96	1700	46	Centroid
353	10-23-96	1717	18	Vertical #4	92	10-23-96	1705	56	Centroid
353	10-23-96	1832	5.4	Vertical #4	92	10-23-96	1708	68	Centroid
463	10-23-96	1655	4.4	Vertical #5	92	10-23-96	1710	72	Centroid
463	10-23-96	1715	14	Vertical #5	92	10-23-96	1713	76	Centroid
463	10-23-96	1830	5.2	Vertical #5	92	10-23-96	1720	82	Centroid
570	10-23-96	1656	3.8	Vertical #6	92	10-23-96	1723	82	Centroid
570	10-23-96	1716	11	Vertical #6	92	10-23-96	1725	84	Centroid
679	10-23-96	1657	3.2	Vertical #7	92	10-23-96	1729	80	Centroid
679	10-23-96	1717	11	Vertical #7	92	10-23-96	1731	80	Centroid
679	10-23-96	1832	4.8	Vertical #7	92	10-23-96	1733	78	Centroid
779	10-23-96	1655	2.0	Vertical #8	92	10-23-96	1735	76	Centroid
779	10-23-96	1715	8.2	Vertical #8	92	10-23-96	1737	76	Centroid
779	10-23-96	1830	5.2	Vertical #8	92	10-23-96	1740	76	Centroid
869	10-23-96	1656	1.6	Vertical #9	92	10-23-96	1742	74	Centroid
869	10-23-96	1716	8.0	Vertical #9	92	10-23-96	1744	70	Centroid
869	10-23-96	1831	5.2	Vertical #9	92	10-23-96	1750	66	Centroid
1,209	10-23-96	1657	.80	Vertical #10	92	10-23-96	1750	66	Duplicate
1,209	10-23-96	1717	5.4	Vertical #10	92	10-23-96	1755	58	Centroid
1,209	10-23-96	1832	4.0	Vertical #10	92	10-23-96	1800	56	Centroid
92	10-24-96	0800	.30	Centroid	92	10-23-96	1752	<.05	Blank
92	10-27-96	1005	.10	Centroid	92	10-23-96	1755	58	Centroid
92	10-28-96	1020	<.05	Centroid	92	10-23-96	1810	46	Centroid
92	10-26-96	1045	.10	Centroid	92	10-23-96	1820	37	Centroid
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>									

**Table B-6.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on October 23, 1996, at 915 A.M.--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Platte River near Ashland, Nebraska (06801000)--Continued</b>				
<b>Platte River island bridge, City of Lincoln well field</b>				
92	10-23-96	1829	28	Centroid
92	10-23-96	1835	23	Centroid
92	10-23-96	1835	23	Duplicate
92	10-23-96	1835	.40	Blank
92	10-23-96	1845	19	Centroid
92	10-23-96	1900	14	Centroid
92	10-23-96	1915	97	Centroid
92	10-23-96	1920	8.2	Duplicate
92	10-23-96	1920	8.2	Centroid
97	10-23-96	1200	.10	Centroid
97	10-23-96	1252	.10	Centroid
97	10-23-96	1420	.10	Centroid
97	10-23-96	1510	.10	Centroid
97	10-23-96	1525	.10	Centroid
97	10-23-96	1535	.10	Centroid
97	10-23-96	1550	.10	Centroid
97	10-23-96	1600	.10	Centroid
97	10-23-96	1610	.10	Centroid
<b>Collector Well W90-1H--Continued</b>				
100	10-23-96	1735	18	Vertical #1
200	10-23-96	1735	25	Vertical #2
250	10-23-96	1736	28	Vertical #3
300	10-23-96	1736	28	Vertical #4
400	10-23-96	1737	33	Vertical #5
<b>Collector Well W90-1H</b>				
NA	10-23-96	0809	.09	NA
NA	10-23-96	1242	.09	NA
NA	10-23-96	1542	.09	NA
NA	10-24-96	0830	.09	NA
NA	10-24-96	0900	.09	NA
NA	10-24-96	0930	<.05	Blank
NA	10-24-96	1000	.09	NA
NA	10-24-96	1000	.08	Duplicate
NA	10-24-96	1100	.08	NA
NA	10-24-96	1130	.09	NA
NA	10-24-96	1200	.09	NA

**Table B-6.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on October 23, 1996, at 915 A.M.--Continued

Distance from left bank (ft)	Date	Time (hour)	Concentration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	10-24-96	1300	0.09	NA
NA	10-24-96	1400	.08	NA
NA	10-24-96	1500	.08	NA
NA	10-24-96	1500	.08	Duplicate
NA	10-24-96	1500	<.05	Blank
NA	10-24-96	1600	.08	NA
NA	10-24-96	1700	.08	NA
NA	10-24-96	1800	.08	NA
NA	10-24-96	1900	.08	NA
NA	10-24-96	2000	.08	NA
NA	10-24-96	2100	.08	NA
NA	10-24-96	2200	.09	NA
NA	10-24-96	2245	.09	NA
NA	10-24-96	2245	.09	Duplicate
NA	10-24-96	2245	<.05	Blank
NA	10-24-96	2350	.10	NA
NA	10-25-96	0048	.11	NA
NA	10-25-96	0149	.12	NA
NA	10-25-96	0245	.12	NA
NA	10-25-96	0313	.13	NA
NA	10-25-96	0343	.14	NA
NA	10-25-96	0414	.14	NA
NA	10-25-96	0443	.15	NA
NA	10-25-96	0515	.15	NA
NA	10-25-96	0542	.15	NA
NA	10-25-96	0613	.15	NA
NA	10-25-96	0645	.15	NA
NA	10-25-96	0730	.14	NA
NA	10-25-96	0810	.14	NA
NA	10-25-96	0835	.14	NA
NA	10-25-96	0930	.13	NA
NA	10-25-96	1015	.14	NA
NA	10-25-96	1100	.14	NA
NA	10-25-96	1200	.15	NA
NA	10-25-96	1300	.15	NA
NA	10-25-96	1400	.16	NA
NA	10-25-96	1455	.16	NA

**Table B-6.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on October 23, 1996, at 915 A.M.--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-1H--Continued</b>				
NA	10-25-96	1455	0.16	Duplicate
NA	10-25-96	1455	<.05	Blank
NA	10-25-96	1600	.15	NA
NA	10-25-96	1700	.16	NA
NA	10-25-96	1800	.17	NA
NA	10-25-96	1900	.16	NA
NA	10-25-96	2000	.16	NA
NA	10-25-96	2105	.16	NA
NA	10-25-96	2200	.17	NA
NA	10-25-96	2300	.17	NA
NA	10-25-96	2300	.17	NA
NA	10-25-96	2300	<.05	NA
NA	10-25-96	0000	.17	NA
NA	10-25-96	0100	.17	NA
NA	10-26-96	0205	.16	NA
NA	10-26-96	0300	.16	NA
NA	10-26-96	0400	.16	NA
NA	10-26-96	0504	.16	NA
NA	10-26-96	0605	.16	NA
NA	10-26-96	0700	.16	NA
NA	10-26-96	1100	.16	NA
NA	10-26-96	1640	.16	NA
NA	10-26-96	2100	.16	NA
NA	10-27-96	1040	.15	NA
NA	10-27-96	2109	.14	NA
NA	10-28-96	1000	.13	NA
NA	10-29-96	1035	.12	NA
<b>Collector Well W90-2H</b>				
NA	10-23-96	0813	.09	NA
NA	10-23-96	1238	.10	NA
NA	10-23-96	1536	.10	NA
NA	10-24-96	0835	.10	NA
NA	10-24-96	0905	.09	NA
NA	10-24-96	1005	.09	NA
NA	10-24-96	1006	.09	Duplicate
NA	10-24-96	1007	<.05	Blank
NA	10-24-96	1105	.09	NA

**Table B-6.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on October 23, 1996, at 915 A.M.--Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration (µg/L)	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	10-24-96	1205	0.10	NA
NA	10-24-96	1305	.09	NA
NA	10-24-96	1405	.09	NA
NA	10-24-96	1505	.09	NA
NA	10-24-96	1505	.09	Duplicate
NA	10-24-96	1505	<.05	Blank
NA	10-24-96	1605	.09	NA
NA	10-24-96	1705	.09	NA
NA	10-24-96	1805	.09	NA
NA	10-24-96	1905	.09	NA
NA	10-24-96	2005	.10	NA
NA	10-24-96	2105	.09	NA
NA	10-24-96	2205	.10	NA
NA	10-24-96	2250	.10	NA
NA	10-24-96	2250	.10	Duplicate
NA	10-24-96	2250	<.05	Blank
NA	10-24-96	2355	.09	NA
NA	10-25-96	0055	.09	NA
NA	10-25-96	0152	.09	NA
NA	10-25-96	0250	.10	NA
NA	10-25-96	0353	.09	NA
NA	10-25-96	0452	.09	NA
NA	10-25-96	0551	.09	NA
NA	10-25-96	0651	.09	NA
NA	10-25-96	0740	.09	NA
NA	10-25-96	0845	.09	NA
NA	10-25-96	0935	.08	NA
NA	10-25-96	1055	.08	NA
NA	10-25-96	1210	.10	NA
NA	10-25-96	1310	.09	NA
NA	10-25-96	1410	.09	NA
NA	10-25-96	1410	.09	Duplicate
NA	10-25-96	1410	<.05	Blank
NA	10-25-96	1500	.09	NA
NA	10-25-96	1605	.10	NA
NA	10-25-96	1705	.09	NA

**Table B-6.** Concentrations of Rhodamine WT dye collected during the slug injection in the Elkhorn River at Q Street bridge, Nebraska, on October 23, 1996, at 915 A.M.--  
Continued

Distance from left bank (ft)	Date	Time (hour)	Concen-tration ( $\mu\text{g/L}$ )	Sample location
<b>Collector Well W90-2H--Continued</b>				
NA	10-25-96	1805	0.10	NA
NA	10-25-96	1905	.11	NA
NA	10-25-96	2005	.11	NA
NA	10-25-96	2100	.12	NA
NA	10-25-96	2155	.12	NA
NA	10-25-96	2255	.12	NA
NA	10-25-96	2255	.12	Duplicate
NA	10-25-96	2255	<.05	Blank
NA	10-25-96	2355	.13	NA
NA	10-25-96	0055	.14	NA
NA	10-25-96	0200	.15	NA
NA	10-25-96	0255	.14	NA
NA	10-25-96	0355	.15	NA
NA	10-25-96	0455	.16	NA
NA	10-25-96	0600	.16	NA
NA	10-25-96	0655	.16	NA
NA	10-25-96	1115	.17	NA
NA	10-25-96	1610	.18	NA
NA	10-26-96	2055	.19	NA
NA	10-27-96	1030	.19	NA
NA	10-27-96	2100	.19	NA
NA	10-28-96	1010	.17	NA
NA	10-29-96	1030	.14	NA