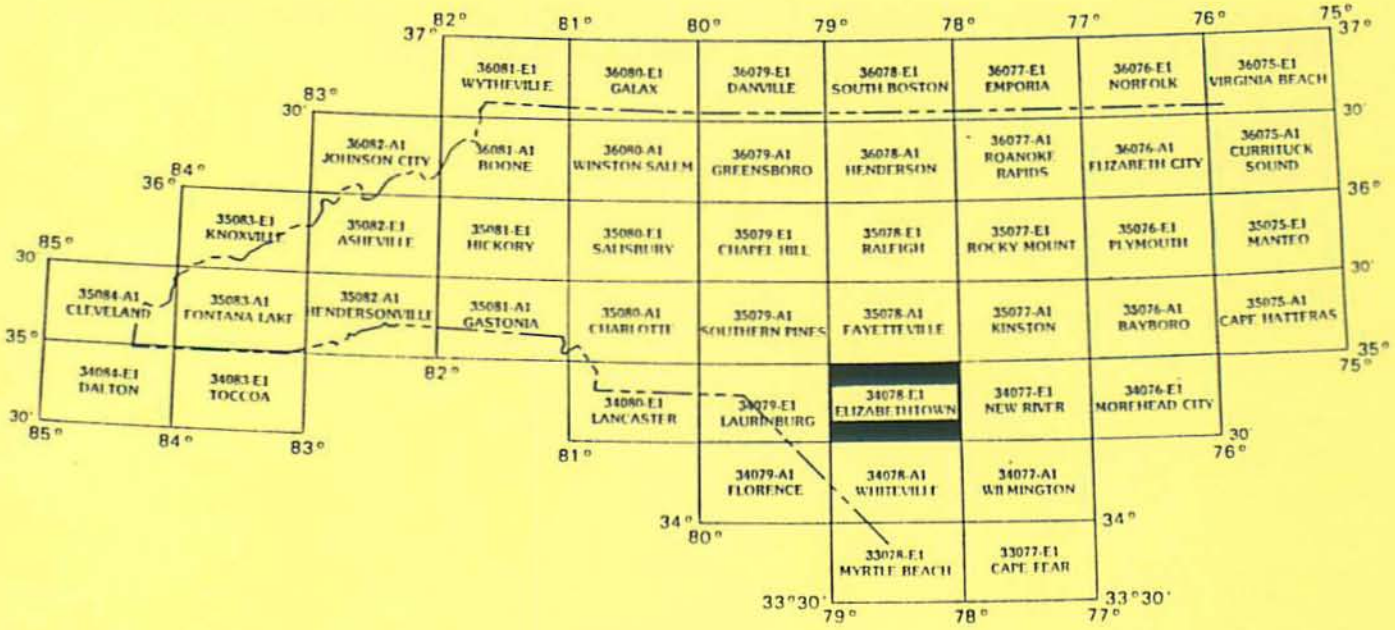
Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Elizabethtown 30 x 60 - Minute Quadrangle -NURE Database

by
Robert H. Carpenter and Jeffrey C. Reid



NORTH CAROLINA GEOLOGICAL SURVEY
OPEN-FILE REPORT 93-23

State of North Carolina
James B. Hunt, Jr., Governor

Department of Environment, Health and Natural Resources
Jonathan B. Howes, Secretary
Division of Land Resources
Charles H. Gardner,
Director and State Geologist

July, 1993

GEOLOGICAL SURVEY SECTION

The Geological Survey Section examines, surveys and maps the geology, mineral resources, and topography of the State to encourage the wise conservation and use of these resources by industry, commerce, agriculture and government agencies for the general welfare of the citizens of North Carolina.

The Section conducts basic and applied research projects in environmental geology, mineral resources exploration and systematic geologic mapping. Services include identifying rock and mineral samples submitted by citizens and providing consulting services and specially prepared reports to agencies that need geological information.

The geological Survey section publishes Bulletins, Economic Papers, Information Circulars, Educational Series, Geologic Maps and Special Publications. For a list of publications or more information about the Section contact the Geological Survey Section, Division of Land Resources, at Post Office Box 27687, Raleigh, North Carolina 27611-7687.

Jeffrey C. Reid
Chief Geologist

Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Elizabethtown 30 x 60 - Minute Quadrangle -NURE Database

by
Robert H. Carpenter and Jeffrey C. Reid

INTRODUCTION

This report is a compilation of geochemical data for stream sediment and groundwater for the Elizabethtown 30 x 60 - minute quadrangle (Figure 1). Maps and tables were prepared from statewide data obtained by the Savannah River Laboratory under sponsorship of the U.S. Dept. of Energy in its National Uranium Resources Evaluation (NURE) program (Sargent and others, 1982). Sampling and analysis were performed during the period 1976 - 1980.

Because of the large size of the database, the North Carolina Geological Survey is presenting the database in both statewide and 30 x 60 - minute quadrangle formats. Statewide formats currently available include atlases of stream sediment and hydrogeochemical data which contain maps showing quartile distribution of concentrations of variables (Reid, 1991; Reid, 1993). Reid and Carpenter (1993a, 1993b) present listings of concentrations of variables which equal or exceed the 90th percentile (and pH and conductivity below the 10th percentile) for stream sediment and groundwater-stream water.

This open-file report is part of a series of reports that present sample-location maps and listings of analyses of all variables in all of the 30 x 60 - minute quadrangles that comprise the state of North Carolina. Subsequent reports will review the NURE data for individual 30 x 60 - minute quadrangles. These reviews will contain the following: 1) maps showing concentrations of all the variables in up to eight class intervals; 2) geologic review of the quadrangle and discussion of relationship of geochemical variables to rock units and structural features; 3) review of mineral resources and discussion of relationship of geochemical variables to mineral occurrences; and 4) discussion of outliers that may relate to anthropogenic contamination.

In this report, site-location maps use state boundaries, county boundaries and 7-1/2 - minute quadrangle boundaries as references to site-locations. The North Carolina Index to Topographic and Other Map Coverage, prepared by the U.S. Geological Survey, is a useful reference document. The List of Publications of the North Carolina Geological Survey indicates areas within the state for which some geologic and geophysical maps, and reports, are available.

Listings in this report are in the same basic format as those presented in microfiche by Sargent

and others (1982). Column 1 lists the laboratory numbers applied to each analyzed sample. Column 2 lists site identification codes. The first two characters are the codes for the county name. The next three digits are sample numbers. They are listed sequentially for each county in the order they were collected. The next two columns list the latitude and longitude of the sampling sites in decimal degree format. The remaining columns are data columns and analyses are given in parts per million (stream sediment) and parts per billion (groundwater). In these columns, a minus (-) sign indicates that a value is below the detection limit. If background is high, and an accurate estimate of minimum detection limit could not be made, a period (.) indicates that the element was not detected and that the detection limit is unusually high. Missing data are denoted by the letter "M". For gold, analyses are listed only for those samples in which gold was detected. For arsenic, a value of 0 is assigned for samples in which arsenic was analyzed, but not detected.

For stream sediment, two listings are presented. The first listing is for elements analyzed by neutron activation as well as field measurements for pH and conductivity of stream water. Variables included in this listing are pH, conductivity, uranium (U), thorium (Th), hafnium (Hf), cerium (Ce), iron (Fe), manganese (Mn), sodium (Na), scandium (Sc), titanium (Ti), vanadium (V), aluminum (Al), dysprosium (Dy), europium (Eu), lanthanum (La), samarium (Sm), ytterbium (Yb), and lutetium (Lu). The second listing is for supplemental elements analyzed by a variety of techniques. These include extractable uranium (Ux), silver (Ag), arsenic (As), barium (Ba), beryllium (Be), calcium (Ca), cobalt (Co), chromium (Cr), copper (Cu), potassium (K), lithium (Li), magnesium (Mg), molybdenum (Mo), niobium (Nb), nickel (Ni), phosphorous (P), lead (Pb), selenium (Se), tin (Sn), strontium (Sr), tungsten (W), yttrium (Y), and zinc (Zn). Stream sediment analyses are for the minus 100 mesh fraction (< 149 microns) unless otherwise noted.

Groundwater, normally samples of water from wells, was also analyzed by neutron activation. Field measurements were made of pH and conductivity. Variables included in listings of groundwater analyses include pH, conductivity, uranium (U), bromine (Br), chlorine (Cl), fluorine (F), magnesium (Mg), manganese (Mn), sodium (Na), vanadium (V), uranium/conductivity, aluminum (Al), and dysprosium (Dy). Stream water was also analyzed for these variables at 295 sites in North Carolina. Listings for stream water are included for areas in which these sites are located.

Although the data was acquired with considerable attention to quality control, some errors exist. These include uncertainties of sample locations due to the use of county road maps as base maps for field use and digitizing sampling sites. Malfunction of field equipment used in measurement of pH and conductivity has also been recognized in some areas. Some of the analyses are also in error. Some of these errors are apparent when concentrations show systematic "breaks" at county boundaries. This suggests that conditions of analysis for different batches of samples were not uniform. In general, analyses of stream sediment by neutron activation are more reliable than analyses of sediment by other supplemental methods.

For a number of counties, supplemental analyses were not made. Thus elements of interest for mineral exploration and environmental geochemistry are lacking for large areas.

REFERENCES

Reid, Jeffrey C., 1991 (revised 1993), A geochemical atlas of North Carolina: North Carolina Geological Survey, Bulletin 93, text plus 45 plates.

Reid, Jeffrey C., 1993, A hydrogeochemical atlas of North Carolina: North Carolina Geological Survey, Bulletin 94, text plus 26 plates.

Reid, Jeffrey C., and Carpenter, Robert H.,1993a, Listings of concentrations (stream sediments) of variables which equal or exceed the 90th percentile, and pH and conductivity below the 10th percentile in the North Carolina portion of the NURE database: North Carolina Geological Survey, Open-File Report 93-1, introductory text plus 178 pages of data.

Reid, Jeffrey C., and Carpenter, Robert H., 1993b, Listing of concentrations (groundwater and stream water) of variables which equal or exceed the 90th percentile, and pH and conductivity below the 10th percentile in the North Carolina portion of the NURE data base: North Carolina Geological Survey, Open-File Report 93-2, introductory text plus 162 pages of data.

Sargent, K.A., Cook, J.R., and Fay, W.M., 1982, Data report: North and South Carolina, National Uranium Resource Evaluation Program, Hydrochemical and stream sediment reconnaissance: E.I. du Pont de Nemours & Co., Savannah River Laboratory, Aiken, S.C., under contract to the U.S. Dept of Energy, contract DE-AC09-76SR000001 (DPST-81-146-22; GBJX-102), 45 p. plus microfiche.

CONTENTS

COUNTY CODES

Code	County
BL	Bladen
CU	Cumberland
DU	Duplin
PE	Pender
RB	Robeson
SA	Sampson

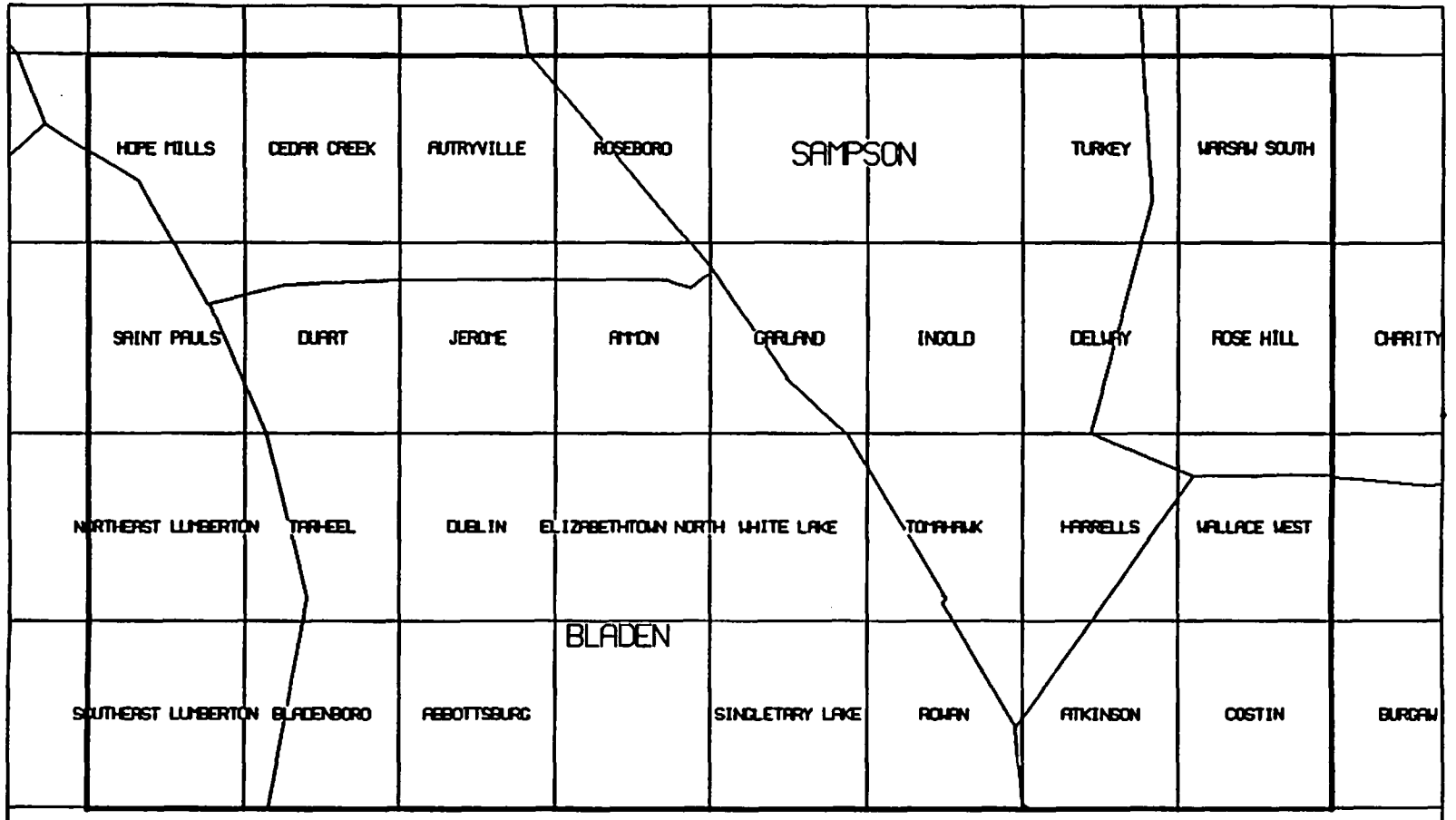


Figure 1. Map Showing Outlines of Elizabethtown 30 x 60 Minute - Quadrangle and Contained 7 - 1/2 Minute Quadrangles

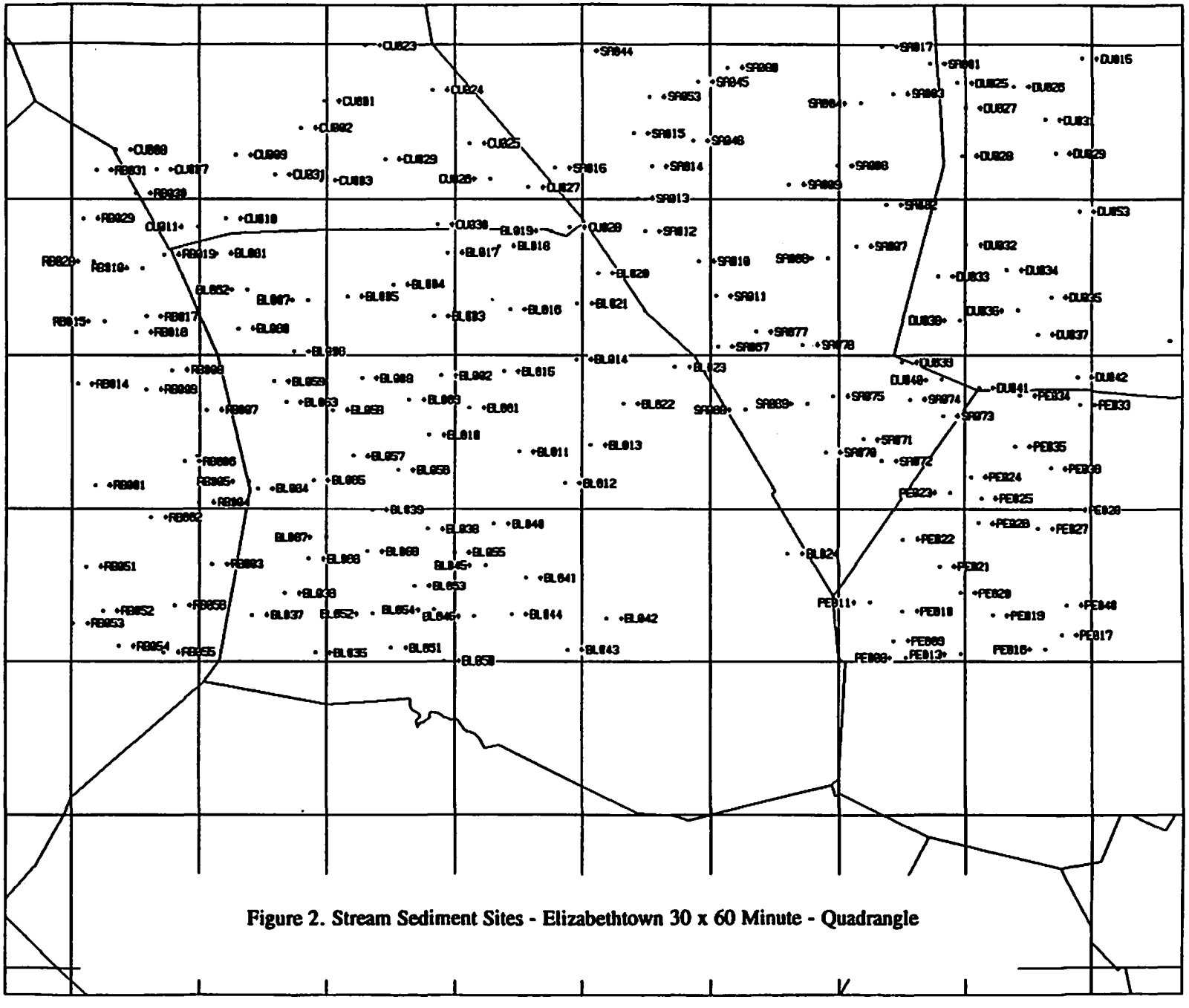


Figure 2. Stream Sediment Sites - Elizabethtown 30 x 60 Minute - Quadrangle

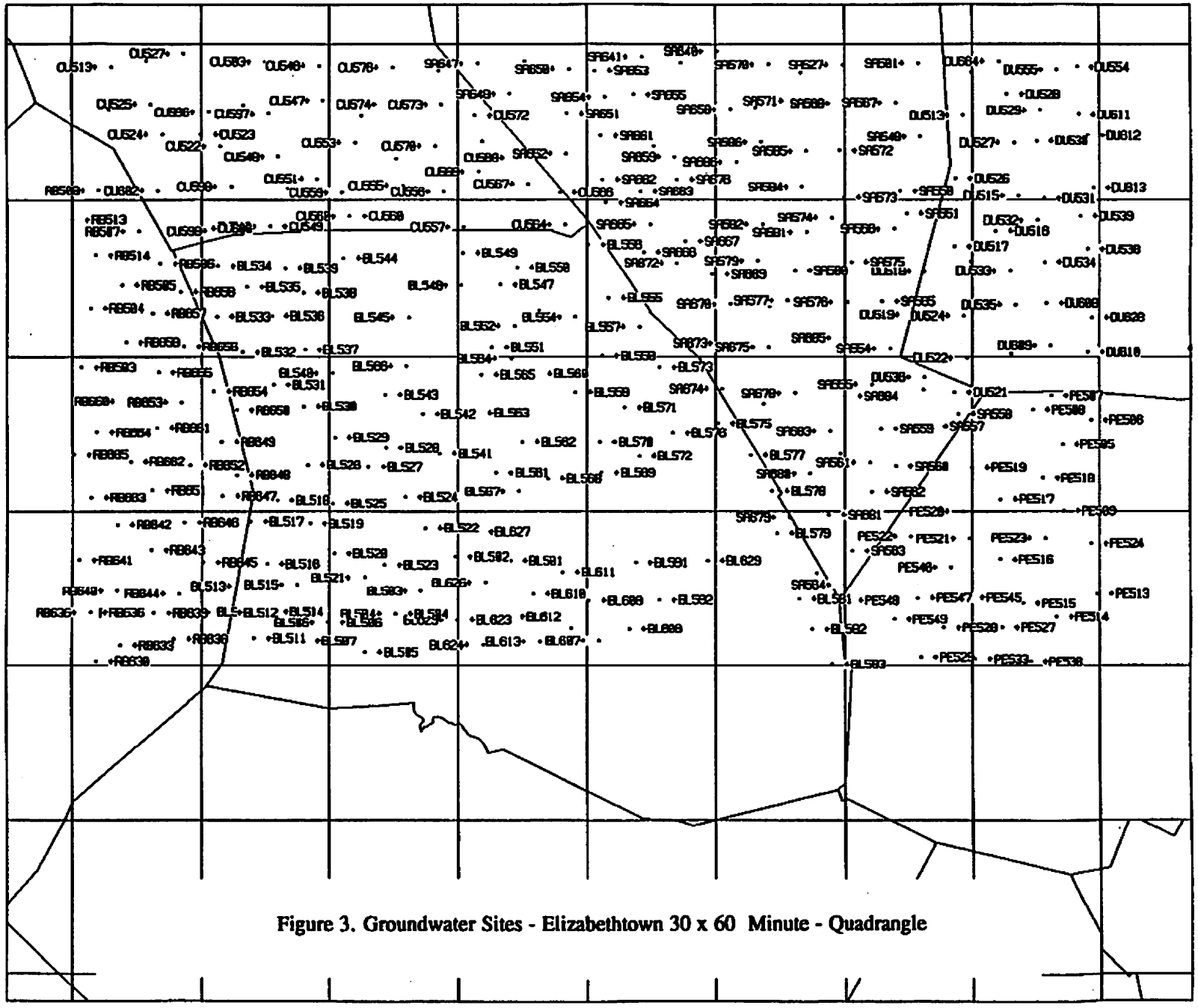


Figure 3. Groundwater Sites - Elizabethtown 30 x 60 Minute - Quadrangle

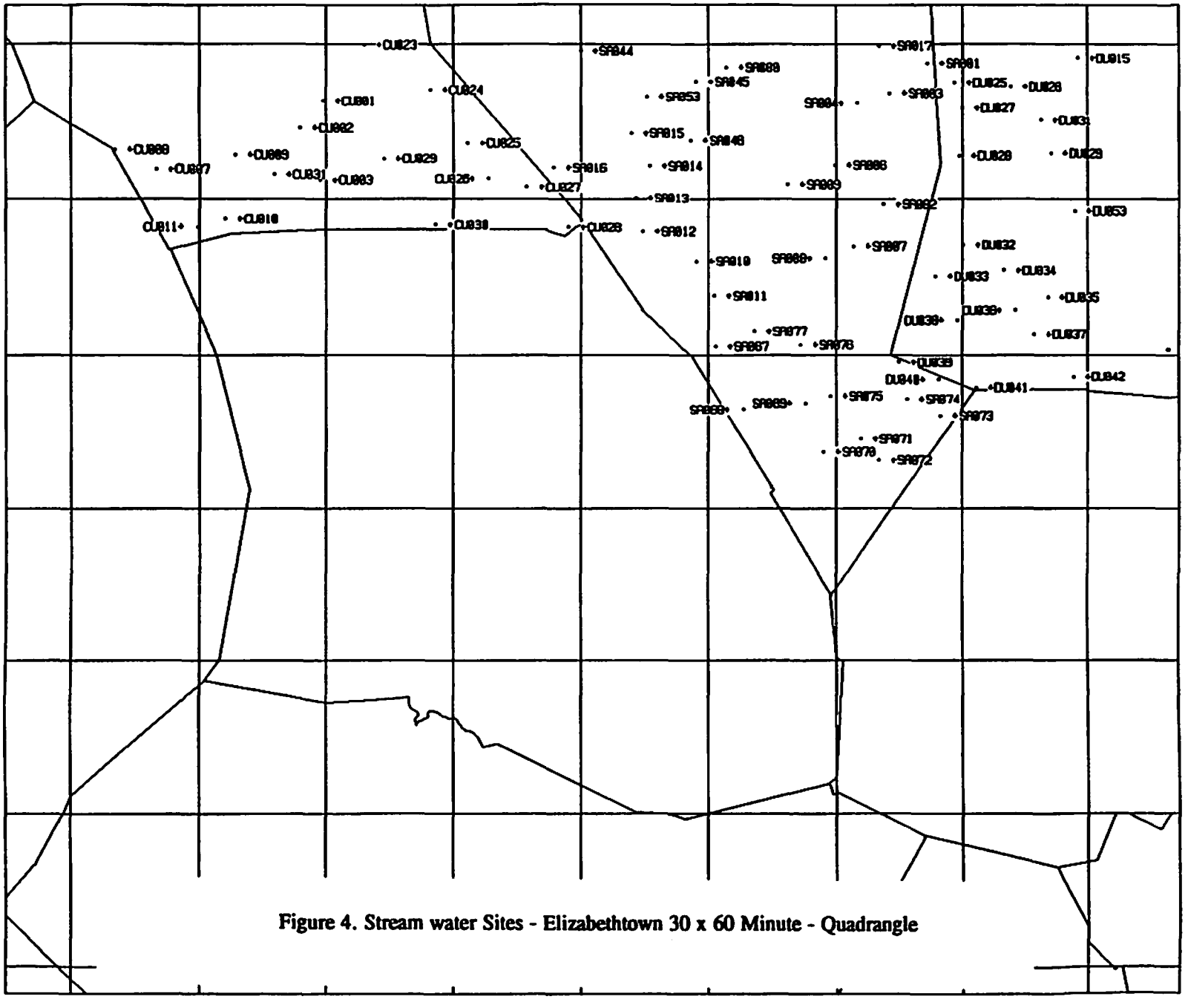


Figure 4. Stream water Sites - Elizabethtown 30 x 60 Minute - Quadrangle

ELIZABETHTOWN 100X QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
526	BL001	34.7074	78.6112	4.5	30	7.1	30	30	11400	147	9000	290	2800	2.5	7100	30	6.5	-1.0	105	13	M	0.7	
527	BL002	34.7334	78.6390	3.8	60	5.2	20	38	5300	91	7900	170	200	1.6	8700	20	6.3	-1.0	47	5	4.1	0.7	
528	BL003	34.7815	78.6460	4.0	50	4.8	24	28	4000	124	7200	70	200	1.6	5700	20	4.8	-1.0	56	8	M	0.5	
529	BL004	34.8066	78.6853	4.1	50	5.3	15	35	7900	60	7400	70	200	4.2	3400	10	3.7	-1.0	30	5	1.7	0.3	
530	BL005	34.7972	78.7303	4.8	25	10.4	50	52	20300	201	13200	510	4700	4.3	12500	50	10.6	2.2	105	14	4.4	0.8	
531	BL006	34.7532	78.7824	5.4	40	5.5	31	26	21200	107	14000	290	4100	3.7	6900	40	8.5	-1.1	62	9	M	0.4	
532	BL007	34.7943	78.7681	3.9	60	103.0	459	384	11000	1950	18600	1260	1200	9.9	34400	80	66.7	8.6	1081	102	34.2	5.5	
533	BL008	34.7314	78.7163	4.2	40	8.8	42	36	43800	185	27600	130	1500	5.8	5400	70	7.6	-1.0	100	3	4.3	0.5	
534	BL009	34.7141	78.6700	4.2	40	7.0	27	27	17400	109	7100	160	2300	2.8	4900	20	6.9	-1.0	54	8	M	0.4	
535	BL010	34.6851	78.6505	4.0	50	49.1	267	201	15600	1183	12300	480	3300	5.9	13700	40	50.3	4.3	683	104	20.5	3.4	
536	BL011	34.6715	78.5617	4.1	50	24.1	96	118	12700	392	8800	440	1500	3.9	12400	30	15.8	-1.2	215	30	11.1	1.6	
537	BL012	34.6462	78.5166	4.1	75	5.7	28	29	24500	128	9600	140	1900	2.8	5400	40	5.6	-1.0	59	7	3.0	0.5	
538	BL013	34.6770	78.4919	4.1	60	4.3	17	28	11500	70	9600	200	700	1.6	7400	30	5.7	-1.4	41	7	M	M	
539	BL014	34.7467	78.5058	4.0	60	6.8	35	33	2600	141	-5000	50	100	1.2	7200	20	8.0	M	79	16	6.5	0.5	
540	BL015	34.7369	78.5772	3.9	55	6.4	30	36	4600	143	7900	170	400	1.1	7000	20	6.8	-1.0	71	11	3.7	0.6	
541	BL016	34.7868	78.5705	4.0	50	3.3	8	19	13100	32	-5000	90	400	4.6	5000	30	2.7	-1.0	18	3	3.2	0.3	
542	BL017	34.8321	78.6327	4.1	50	4.1	21	24	3600	83	-5000	140	200	1.2	5500	10	4.9	-1.0	40	7	2.4	0.2	
543	BL018	34.8375	78.5816	3.8	80	5.6	M	39	4500	M	M	70	200	2.0	4500	10	5.9	M	26	8	M	M	
544	BL019	34.8496	78.5301	4.0	50	16.8	102	90	M	453	-5000	M	M	2.2	M	M	0.9	2.2	182	M	12.9	1.2	
545	BL020	34.8158	78.4848	4.3	40	11.0	48	71	4800	232	5200	100	300	2.5	6200	20	8.4	2.2	156	17	6.0	0.6	
546	BL021	34.7916	78.5046	4.1	45	7.2	32	46	11000	136	6100	100	100	1.8	6000	30	6.6	-1.0	76	14	2.5	0.5	
547	BL022	34.7108	78.4600	3.9	60	9.8	41	64	10800	164	-5000	110	1600	1.6	6600	30	8.6	-1.0	77	13	4.1	0.7	
548	BL023	34.7403	78.4098	4.2	40	5.0	27	28	7200	125	-5000	140	300	1.8	5300	20	4.8	-1.0	54	8	6.1	M	
549	BL024	34.5884	78.2986	3.9	60	21.7	94	261	5200	420	-5000	200	300	2.8	10200	30	20.9	-1.0	223	37	9.0	1.3	
560	BL035	34.5074	78.7613	5.0	30	1.9	10	14	20200	36	9300	40	100	4.9	5800	40	3.2	-1.0	15	2	M	0.2	
561	BL036	34.5558	78.7912	5.5	75	2.5	12	59	5000	41	-5000	60	100	2.7	4700	20	1.5	M	16	4	M	M	
562	BL037	34.5382	78.8229	5.3	45	5.1	21	76	3700	102	-5000	120	300	2.0	6800	20	2.4	-1.0	48	7	2.8	0.6	
563	BL038	34.6082	78.6513	5.2	35	4.7	13	71	6800	61	-5000	140	500	3.0	6600	20	0.1	-1.0	33	6	3.0	0.4	
564	BL039	34.6243	78.7056	3.8	75	1.9	5	13	14700	-20	16300	50	400	3.0	3700	30	1.9	M	8	2	M	M	
565	BL040	34.6125	78.5865	5.8	45	1.3	4	21	6100	-28	-5000	60	200	1.1	3400	10	0.7	-1.0	12	2	M	M	
566	BL041	34.5687	78.5550	6.5	60	1.7	6	28	5600	21	5600	150	300	1.6	5800	20	1.3	-1.0	13	2	M	M	
567	BL042	34.5353	78.4762	5.9	40	5.1	18	67	8700	104	8900	140	700	1.3	5900	20	3.3	M	53	6	5.4	0.2	
568	BL043	34.5098	78.5143	4.5	43	2.5	7	28	6000	43	6800	100	500	1.4	5100	20	1.6	M	17	3	1.0	0.1	
569	BL044	34.5386	78.5691	4.6	35	5.8	15	183	4400	48	-5000	40	M	1.1	11300	30	2.9	-1.0	30	4	7.5	1.0	

ELIZABETHTOWN 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
570	BL045	34.5786	78.5951	6.0	50	2.7	9	47	4800	51	8000	80	400	1.4	4600	10	1.3	M	20	3	1.5	0.2	
571	BL046	34.5370	78.6060	5.1	37	2.8	12	35	10800	49	10000	100	200	2.6	6500	30	2.3	3.2	23	3	2.8	0.3	0.031
575	BL050	34.5009	78.6357	5.6	45	3.7	14	10	66100	59	22800	150	600	10.0	5900	80	2.6	-1.0	33	4	3.3	0.3	
576	BL051	34.5116	78.6873	4.8	42	3.7	M	46	6800	M	M	80	100	1.5	5800	20	4.3	M	M	4	M	M	
577	BL052	34.5390	78.7056	5.3	43	3.8	9	68	4600	58	-5000	70	100	1.4	7700	20	2.0	M	19	4	2.7	0.4	
578	BL053	34.5620	78.6646	3.7	75	1.8	3	24	5800	13	-5000	40	100	0.6	3800	10	1.3	-1.0	44	2	M	M	
579	BL054	34.5424	78.6453	5.1	70	3.6	13	55	M	56	-5000	110	200	1.6	6600	20	4.7	-1.0	36	5	M	0.4	
580	BL055	34.5893	78.6254	4.0	50	1.7	4	26	3900	20	-5000	40	100	1.5	4200	10	1.7	M	11	1	M	0.2	
581	BL056	34.6567	78.6801	6.4	120	9.1	41	88	10000	161	13100	260	800	3.8	12600	40	9.7	1.5	126	14	M	1.4	
582	BL057	34.6681	78.7243	5.4	48	2.8	10	52	8600	43	5200	50	100	1.8	8200	30	1.5	-1.0	26	3	M	0.3	
583	BL058	34.7056	78.7445	5.9	45	8.6	50	219	6000	-20	25800	160	100	2.5	13500	30	3.2	-1.0	25	5	M	M	
584	BL059	34.7287	78.8020	4.2	45	8.5	37	67	3100	177	6500	40	100	1.5	5300	10	7.0	-1.0	124	13	M	0.8	
585	BL060	34.7715	78.8370	5.2	40	3.4	10	21	3200	48	-5000	20	100	1.5	3800	10	2.3	M	45	4	M	0.3	
586	BL061	34.8316	78.8584	5.1	40	13.8	63	105	6900	274	-5000	70	100	1.8	9600	30	11.3	1.7	206	22	7.4	1.4	
587	BL062	34.8023	78.8279	5.5	60	6.2	30	43	6500	108	-5000	50	100	2.0	6300	20	6.5	0.8	59	15	3.5	0.6	
588	BL063	34.7120	78.7900	4.4	42	5.2	21	32	4300	92	-5000	30	100	0.9	4100	10	6.1	0.8	48	13	3.5	0.4	
589	BL064	34.6416	78.8175	4.7	50	5.1	19	50	2900	80	-5000	90	100	1.5	11300	30	4.5	-1.0	39	13	2.8	0.4	
590	BL065	34.6485	78.7630	4.6	45	1.7	4	12	9400	12	-5000	20	100	3.1	4200	20	1.8	0.2	10	1	M	0.2	
591	BL066	34.5840	78.7674	4.5	35	1.6	5	21	3500	25	-5000	20	100	0.7	2700	10	1.2	0.2	11	3	0.9	0.1	
592	BL067	34.6015	78.7505	6.0	50	1.2	4	15	6500	14	-5000	20	100	0.6	2500	10	0.6	M	6	2	0.8	0.2	
593	BL068	34.5902	78.7100	3.9	50	2.0	7	34	5900	22	-5000	30	100	1.4	8100	20	3.1	-1.0	11	4	1.5	0.2	
1487	CU001	34.9543	78.7530	4.3	62	54.1	377	209	21400	1657	34600	420	500	6.5	11400	50	52.3	5.3	911	55	35.1	4.2	
1488	CU002	34.9324	78.7756	5.7	52	30.9	156	98	20000	675	18300	990	M	5.1	6500	20	1.7	-1.7	366	7	15.0	2.4	
1489	CU003	34.8904	78.7564	3.9	50	3.3	13	17	14600	48	8100	90	500	3.0	3700	30	2.4	-1.0	29	3	M	0.3	0.372
1493	CU007	34.8992	78.9168	4.8	70	6.8	27	42	16600	133	11100	60	200	4.2	6700	30	6.0	1.2	75	3	2.1	0.6	
1494	CU008	34.9148	78.9563	5.8	42	21.2	114	153	6000	512	7500	M	M	3.4	13300	50	1.4	3.2	234	37	17.8	2.6	
1495	CU009	34.9108	78.8394	4.3	58	25.0	111	292	10200	502	20100	670	100	8.7	36500	100	16.9	M	249	39	16.4	3.1	
1496	CU010	34.8593	78.8490	4.8	55	180.7	1064	994	19700	4782	13800	M	100	12.3	23800	120	16.5	6.1	M	447	98.0	15.6	
1497	CU011	34.8530	78.8767	6.1	60	17.2	81	101	10700	353	7400	120	100	2.2	13000	40	19.6	-1.7	201	27	10.4	1.5	
1509	CU023	34.9995	78.7127	5.8	53	5.7	24	37	6700	109	8100	180	700	2.3	6000	20	5.3	-1.0	57	8	4.9	0.8	
1510	CU024	34.9634	78.6475	5.9	68	13.4	60	59	15600	272	-5000	170	400	4.8	7600	20	14.5	M	169	22	4.6	0.9	
1511	CU025	34.9201	78.6112	6.2	54	3.7	12	23	18500	73	12600	70	300	3.2	4800	40	6.0	-1.0	36	5	2.2	0.6	
1512	CU026	34.8917	78.5910	5.0	41	8.6	52	54	11400	234	10300	320	300	2.1	14400	40	7.9	-1.0	122	21	7.2	1.2	
1513	CU027	34.8848	78.5528	5.1	60	33.8	151	189	10300	661	18600	710	700	6.5	26600	60	19.3	M	383	63	17.7	2.6	

ELIZABETHTOWN 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond us/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
1514	CU028	34.8526	78.5121	5.1	30	11.3	46	52	4800	190	7600	M	M	1.9	8500	40	1.0	-1.1	106	2	9.6	1.2	
1515	CU029	34.9076	78.6935	5.3	50	4.6	23	32	16500	82	14400	440	700	5.0	14500	50	M	-1.0	43	7	3.3	0.6	
1516	CU030	34.8546	78.6425	4.7	74	20.2	93	67	8000	404	5300	620	M	2.4	7600	10	1.2	2.8	229	37	5.0	1.1	
1517	CU031	34.8953	78.8013	5.6	44	69.4	409	217	18800	2014	24600	1560	3100	12.2	35200	110	67.0	4.1	964	170	28.2	4.7	
1888	DU015	34.9892	78.0098	6.6	65	3.6	10	33	7200	45	5500	130	400	1.7	6700	20	2.5	1.6	25	4	1.2	0.5	
1898	DU025	34.9690	78.1338	7.1	120	7.0	35	93	10000	162	8300	170	200	1.6	9200	30	7.6	-1.7	76	14	6.3	0.9	
1899	DU026	34.9659	78.0780	6.3	85	4.7	13	39	19300	74	14700	120	300	3.6	7600	40	6.6	-1.0	36	6	1.5	0.7	0.040
1900	DU027	34.9488	78.1256	6.9	85	5.8	23	75	8400	81	6200	170	200	2.2	9000	30	6.7	-1.1	51	7	2.5	0.6	
1901	DU028	34.9102	78.1289	6.8	100	5.1	25	56	11000	100	10400	150	600	2.1	7400	30	6.3	-1.1	53	2	3.4	0.6	
1902	DU029	34.9122	78.0371	6.9	95	7.5	19	70	18900	102	14900	170	300	4.7	8800	40	M	-1.0	53	9	3.4	0.5	
1904	DU031	34.9387	78.0473	6.7	95	4.0	14	56	9400	51	9300	150	200	1.3	8400	30	2.7	-1.0	30	4	4.1	0.6	
1905	DU032	34.8384	78.1246	6.4	50	8.3	28	147	10200	120	17300	560	200	4.2	29200	70	0.3	1.2	61	10	10.4	1.2	0.016
1906	DU033	34.8132	78.1516	6.0	40	5.5	15	38	32200	73	13000	90	500	6.9	6700	50	4.5	-1.0	41	6	2.5	0.4	
1907	DU034	34.8183	78.0841	5.7	80	8.8	32	204	8900	126	12400	290	200	2.4	20100	50	M	1.4	64	10	8.7	1.2	
1908	DU035	34.7964	78.0406	6.0	90	3.2	11	39	14900	57	9700	90	200	2.9	5800	30	2.8	1.4	24	5	3.3	0.6	
1909	DU036	34.7860	78.0733	6.2	83	22.4	86	506	11900	343	15800	470	400	4.5	22900	70	12.2	M	181	34	15.8	3.7	
1910	DU037	34.7670	78.0539	7.2	162	16.5	54	283	8400	240	9400	390	300	4.5	20300	50	10.4	-1.5	143	19	8.4	1.6	
1911	DU038	34.7782	78.1301	5.6	60	10.3	25	216	11500	117	6500	190	200	3.8	13400	40	M	-1.6	69	11	7.8	1.5	
1912	DU039	34.7443	78.1874	6.7	50	8.0	28	154	17000	133	22800	170	300	5.0	12000	50	3.8	-1.0	64	11	7.3	1.0	
1913	DU040	34.7304	78.1483	6.8	172	3.9	13	47	15800	62	13700	160	200	3.6	5000	30	3.1	-1.0	33	1	3.6	0.4	
1914	DU041	34.7237	78.1118	6.7	152	10.9	37	203	12000	171	14100	260	700	3.2	12900	40	M	-1.1	98	21	7.2	1.4	
1915	DU042	34.7327	78.0145	7.0	160	9.3	30	219	10000	120	11200	410	300	2.5	24200	70	6.9	-1.4	69	10	5.7	1.2	
1926	DU053	34.8657	78.0129	7.5	325	4.8	14	10	49000	83	26400	M	M	6.4	7400	60	0.5	2.3	44	7	3.2	0.4	
4535	PE008	34.5036	78.1837	5.8	40	2.5	10	25	5700	26	5200	100	500	1.3	4800	10	1.7	1.1	19	3	M	0.3	
4536	PE009	34.5170	78.1956	4.7	35	2.8	13	28	5000	58	7700	110	100	1.7	4900	10	2.0	0.7	25	1	M	0.3	
4537	PE010	34.5412	78.1867	4.7	40	4.0	10	41	14500	49	8100	90	200	3.6	5200	30	2.3	M	32	1	M	0.2	
4538	PE011	34.5485	78.2189	4.1	45	3.3	11	12	34500	69	20300	50	400	4.0	8900	60	4.9	-1.0	21	2	10.9	0.7	
4539	PE012	34.5141	78.1516	5.7	40	4.0	16	47	5100	67	7800	180	400	0.7	7200	20	4.3	-1.0	86	7	M	0.4	
4540	PE013	34.5060	78.1297	5.2	30	4.6	20	51	2900	74	9800	110	200	2.1	5100	10	3.0	-1.0	71	8	M	0.4	
4543	PE016	34.5102	78.0467	5.9	30	3.4	14	47	6900	68	14500	170	300	1.8	8000	20	2.4	M	33	6	1.8	0.3	
4544	PE017	34.5218	78.0299	6.1	50	3.6	16	35	5300	53	8100	110	200	1.4	4500	10	2.7	-1.0	32	5	M	0.3	
4546	PE019	34.5377	78.0979	6.0	45	2.2	7	27	4700	28	7400	130	300	1.3	5800	20	1.9	M	14	1	M	0.3	
4547	PE020	34.5560	78.1295	4.8	30	3.5	7	14	30100	40	9800	80	400	2.6	7700	50	2.9	-1.0	17	4	3.3	0.5	
4548	PE021	34.5778	78.1500	4.4	25	3.5	8	15	35300	41	9900	50	300	3.2	5200	40	2.3	0.9	25	1	1.9	0.3	

ELIZABETHTOWN 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond us/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
4549	PE022	34.6000	78.1856	4.3	30	6.7	27	69	10300	101	8500	220	300	2.4	9500	30	6.8	-1.0	57	12	M	0.6	
4550	PE023	34.6384	78.1389	5.3	35	3.0	11	19	32900	42	26400	80	500	4.4	6600	60	3.5	1.2	17	2	3.7	0.6	
4551	PE024	34.6511	78.1190	4.8	30	3.2	14	20	28900	59	15100	70	300	2.5	8000	50	3.1	-1.0	28	4	M	0.5	
4552	PE025	34.6337	78.1086	5.0	30	2.8	7	23	17100	35	15500	100	500	3.8	6000	40	3.1	0.6	17	3	1.9	0.4	
4553	PE026	34.6129	78.1116	4.8	30	2.9	12	35	6400	50	9400	120	300	2.1	6200	20	2.0	M	29	3	M	0.3	
4554	PE027	34.6086	78.0532	4.9	25	1.2	8	15	3600	22	7000	40	100	1.1	2400	10	1.8	M	8	M	M	M	
4555	PE028	34.6244	78.0204	6.2	60	2.7	8	23	39000	54	22400	100	800	6.4	6500	70	0.7	-1.0	26	3	2.9	0.4	
4560	PE033	34.7102	78.0113	6.3	50	4.7	16	76	6300	73	11300	160	500	2.0	6900	20	3.0	M	39	5	6.5	0.6	
4561	PE034	34.7173	78.0714	5.6	35	2.6	8	46	4700	39	9100	130	300	1.5	5900	20	1.7	-1.0	23	2	M	M	
4562	PE035	34.6759	78.0758	4.9	30	3.4	12	51	14000	44	13100	150	300	4.0	7200	30	3.5	-1.0	31	5	4.5	0.5	
4563	PE036	34.6580	78.0406	6.4	60	3.8	12	52	5000	.48	5200	130	300	3.8	5900	20	2.4	-1.0	29	4	M	0.3	
4567	PE040	34.5462	78.0246	6.1	70	12.5	60	216	7800	263	16300	410	400	2.8	21600	60	12.3	-1.0	128	25	14.0	1.3	
4984	RB001	34.6444	78.9771	5.9	115	3.9	12	15	28800	51	18200	70	200	5.0	6500	50	4.4	-1.0	20	3	M	0.4	
4985	RB002	34.6179	78.9220	6.6	118	4.6	13	18	42900	60	21700	100	400	5.9	7200	70	5.2	M	29	5	4.3	0.3	
4986	RB003	34.5797	78.8621	5.1	39	3.5	10	15	16400	-20	5000	30	200	3.1	3400	20	2.1	-1.0	33	4	M	M	
4987	RB004	34.6302	78.8753	6.2	63	4.5	21	53	5800	85	8700	120	200	1.3	7300	20	3.4	M	59	7	M	0.4	
4988	RB005	34.6473	78.8267	4.4	40	2.8	7	10	10500	25	-5000	20	100	3.3	2200	20	1.0	-1.0	16	4	M	0.3	
4989	RB006	34.6636	78.8897	4.7	42	0.3	M	4	1900	M	M	M	M	0.5	800	M	0.9	M	9	M	M	M	
4990	RB007	34.7056	78.8679	5.5	75	4.4	9	14	31600	53	11900	70	300	5.3	7200	60	5.7	2.4	17	3	5.2	0.6	
4991	RB008	34.7379	78.9015	5.4	30	5.2	25	47	3800	121	-5000	50	M	2.6	6700	20	6.7	-1.0	57	16	M	M	
4992	RB009	34.7224	78.9270	6.0	70	5.5	22	62	7400	88	-5000	60	100	1.3	5400	20	5.4	-1.0	49	10	2.5	0.6	
4997	RB014	34.7268	78.9945	5.7	43	4.1	23	37	6100	72	-5000	50	100	1.8	5700	20	4.0	3.2	60	13	M	M	
4998	RB015	34.7773	78.9681	4.9	42	3.6	12	15	27600	54	-5000	60	200	4.6	6000	40	3.2	-1.0	28	7	2.9	0.3	
4999	RB016	34.7690	78.9367	5.2	40	1.7	9	24	2700	16	-5000	30	100	0.8	3200	10	1.2	M	8	M	M	M	
5000	RB017	34.7814	78.9265	5.6	45	3.3	11	11	18000	64	11700	50	79500	2.4	5700	30	2.6	-1.8	28	9	7.0	M	
5001	RB018	34.8201	78.9304	4.5	40	14.6	57	85	1100	264	-5000	30	M	2.8	3400	10	10.3	M	157	25	4.8	0.8	
5002	RB019	34.8309	78.9093	5.3	32	7.1	38	53	2400	189	-5000	40	M	2.3	5000	10	5.2	-1.0	75	14	M	0.8	
5011	RB028	34.8253	78.9783	5.4	30	7.7	33	56	3400	159	-5000	30	100	2.2	6400	20	8.4	-1.1	89	18	M	0.7	
5012	RB029	34.8597	78.9885	5.4	58	5.9	22	36	9400	100	5400	40	100	3.2	5000	20	5.3	1.3	47	12	4.1	0.4	
5013	RB030	34.8800	78.9369	6.0	35	4.7	11	15	24300	-20	7900	80	400	3.5	6200	40	2.8	-1.0	33	7	M	M	
5014	RB031	34.8985	78.9753	5.3	58	1.5	11	7	3500	-33	-5000	20	100	0.9	3000	10	1.7	-1.0	13	8	M	M	
5034	RB051	34.5779	78.9859	4.8	50	8.0	35	38	11900	150	7100	60	100	3.4	5500	30	8.7	-1.0	121	15	3.0	0.4	
5035	RB052	34.5414	78.9691	4.5	50	4.0	15	25	10600	71	7700	20	100	2.8	5100	20	3.9	-1.0	59	5	M	0.9	
5036	RB053	34.5312	78.9982	4.9	45	8.9	41	70	5300	183	6300	70	M	1.8	6700	20	8.8	-1.0	141	15	5.5	0.6	

ELIZABETHTOWN 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond	U	Th	Hf	Al	Ce	Fe	Mn	Na	Sc	Ti	V	Dy	Eu	La	Sm	Yb	Lu	Au
					um/cm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
5037	RB054	34.5127	78.9531	4.9	40	4.2	14	38	3200	68	-5000	40	100	1.6	3400	10	2.8	-1.0	54	2	M	0.4	
5038	RB055	34.5078	78.9089	5.4	30	8.5	37	52	7800	146	-5000	80	200	2.8	7900	30	11.0	-1.0	161	17	3.5	0.7	
5039	RB056	34.5460	78.8985	4.4	40	12.7	66	64	4100	291	-5000	70	100	2.6	5900	20	10.3	1.1	228	22	2.8	0.8	
5416	SA001	34.9847	78.1599	7.6	170	2.1	7	28	7200	75	-5000	90	300	1.4	5200	20	3.0	M	20	5	M	0.4	
5418	SA003	34.9607	78.1963	6.3	83	5.0	21	63	8600	84	5400	130	300	2.5	M	20	M	0.7	42	5	2.4	0.4	
5419	SA004	34.9529	78.2288	6.1	70	18.2	65	201	8200	279	8900	300	200	3.2	16900	50	M	-1.1	150	26	8.5	1.4	
5420	SA005	34.9549	78.2690	5.4	80	5.6	M	M	42900	M	M	80	500	M	7200	60	4.5	M	M	M	M	M	
5421	SA006	34.9027	78.2516	5.8	65	10.2	43	146	15600	178	9800	150	300	4.6	M	40	M	M	97	11	7.9	1.2	
5422	SA007	34.8375	78.2322	6.0	30	39.8	171	842	19900	701	21200	450	500	9.2	20200	70	36.7	4.1	337	40	22.5	4.3	
5423	SA008	34.8279	78.2604	5.7	22	24.4	127	200	7600	523	-5000	M	M	3.9	M	20	M	1.3	284	32	13.7	2.2	
5424	SA009	34.8873	78.2976	4.7	38	30.8	125	267	11300	502	10000	320	200	5.2	19000	50	9.2	6.3	296	29	16.5	2.4	
5425	SA010	34.8255	78.3860	5.5	53	14.7	76	107	5400	305	6300	150	200	2.9	8100	20	12.2	-1.0	173	20	8.8	1.1	
5426	SA011	34.7974	78.3693	7.2	257	10.9	67	87	5400	282	-5000	120	200	2.7	6800	20	10.7	M	157	21	6.6	1.1	
5427	SA012	34.8494	78.4390	6.2	78	11.8	53	70	15000	210	7500	180	200	3.7	8200	30	13.5	M	126	19	6.9	0.8	
5428	SA013	34.8760	78.4462	4.1	67	6.3	25	45	3000	90	-5000	150	100	2.1	7100	20	1.7	M	56	9	4.1	0.7	
5429	SA014	34.9018	78.4324	4.2	58	13.6	52	63	10200	211	5100	120	300	3.1	7900	30	14.4	1.4	120	12	8.9	1.1	
5430	SA015	34.9281	78.4505	4.4	39	34.8	203	227	10900	814	6600	270	400	5.8	14900	50	56.0	2.4	488	142	18.4	2.9	
5431	SA016	34.9004	78.5269	4.3	28	8.6	55	72	3300	229	-5000	60	100	2.8	4300	10	7.3	2.6	110	13	M	0.5	
5432	SA017	34.9988	78.2070	6.1	68	1.7	8	45	4200	36	-5000	90	100	1.5	5600	20	2.4	-1.0	10	2	M	M	
5459	SA044	34.9947	78.5002	6.6	46	19.5	84	111	10100	425	8200	220	700	4.6	10100	30	18.1	M	208	32	12.2	1.7	0.061
5460	SA045	34.9699	78.3872	6.1	162	18.0	96	147	9900	404	9600	310	400	3.4	16300	50	18.5	-1.3	203	36	9.4	1.6	
5461	SA046	34.9222	78.3921	6.2	43	11.0	48	95	9200	223	8900	140	200	2.6	8800	30	11.4	M	116	17	8.1	1.0	
5468	SA053	34.9581	78.4347	6.6	81	47.9	213	264	6700	901	11300	290	200	7.1	15200	40	40.0	5.9	486	70	26.1	4.1	
5482	SA067	34.7572	78.3679	5.5	51	5.2	28	47	8400	115	11900	140	200	2.1	6700	20	4.3	-1.0	57	8	3.8	0.6	
5483	SA068	34.7058	78.3409	4.0	52	145.6	788	963	5600	3430	17600	740	300	14.4	32000	70	106.5	6.2	M	268	61.7	10.5	3.202
5484	SA069	34.7109	78.2799	4.5	48	19.3	106	171	9600	459	17700	230	300	3.4	11400	40	18.7	-1.0	246	34	5.0	1.4	
5485	SA070	34.6713	78.2624	4.2	40	14.8	58	96	4400	220	6700	410	200	2.2	17600	40	15.9	M	128	18	7.8	1.2	
5486	SA071	34.6817	78.2255	6.3	48	8.2	40	132	7500	170	15300	290	500	1.0	14300	40	6.3	-1.0	83	13	7.3	1.1	
5487	SA072	34.6643	78.2070	5.9	45	10.4	47	114	6000	216	10500	290	500	2.5	11200	30	9.6	-1.2	116	6	7.5	1.3	
5488	SA073	34.7009	78.1468	5.8	40	4.1	13	26	31700	85	24400	90	500	5.8	8500	70	5.9	-1.0	34	6	3.0	0.6	
5489	SA074	34.7145	78.1795	7.3	251	3.7	9	15	37300	62	22800	130	400	4.8	8400	70	4.2	-1.0	32	6	3.5	0.4	
5490	SA075	34.7171	78.2554	6.8	59	51.7	194	846	10100	733	22100	830	300	10.6	40500	110	38.5	4.3	395	11	39.5	5.8	
5491	SA076	34.7588	78.2847	4.6	36	15.7	72	184	35500	295	19700	160	400	7.3	7900	60	11.3	-1.0	164	26	11.2	1.4	
5492	SA077	34.7692	78.3302	5.3	67	2.7	7	16	6200	37	6700	40	200	1.7	3200	10	1.6	M	19	3	2.1	0.2	0.077

ELIZABETHTOWN 100K QUADRANGLE - STREAM SEDIMENT

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppm	Th ppm	Hf ppm	Al ppm	Ce ppm	Fe ppm	Mn ppm	Na ppm	Sc ppm	Ti ppm	V ppm	Dy ppm	Eu ppm	La ppm	Sm ppm	Yb ppm	Lu ppm	Au ppm
5495	SA080	34.9815	78.3576	6.4	58	5.4	22	43	6200	93	-5000	80	200	1.7	4700	20	4.9	-1.0	56	5	3.4	0.6	
5496	SA081	34.8245	78.2914	4.4	50	7.3	38	56	12200	153	8900	70	200	1.8	4600	20	5.5	-1.0	88	2	3.2	0.6	0.013
5497	SA082	34.8709	78.2028	5.5	31	12.2	42	172	6100	157	10000	200	200	3.1	12000	30	7.5	-1.5	86	13	7.0	1.0	

ELIZABETHTOWN 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
984	CU001	34.9543	78.7530	0.2	0.4		.	.	-100	6	.	15	.	.	.	.	.	22	.	46		.	.	.	235	16
985	CU002	34.9324	78.7756	0.2	0.2	1	6	-0.5	300	6	15	6	3000	-5	700	8	8	6	700	14	1	28	.	-2	.	-5
986	CU003	34.8904	78.7564	0.1	-0.1	1	-5	0.5	-100	-5	-5	5	3000	7	800	-2	-5	5	1400	12	1	-5	.	-2	5	7
990	CU007	34.8992	78.9168	0.1	-0.1	3	5	1	-100	-5	7	154	1000	7	750	3	5	-5	1600	100	1	10	.	-2	-5	47
991	CU008	34.9148	78.9563	0.1	0.2		.	.	100	6	.	12	.	.	.	.	.	6	.	14		.	.	.	.	8
992	CU009	34.9108	78.8394	0.1	-0.1	3	-5	0.5	-100	-5	29	3	1000	7	450	6	20	5	900	17	-1	-5	.	-2	150	-5
993	CU010	34.8593	78.8490	0.3	0.2	1	14	1.7	100	14	50	7	3000	-5	2000	8	29	14	1100	22	2	48	.	-2	1200	-5
994	CU011	34.8530	78.8767	0.1	-0.1	2	5	0.5	-100	-5	6	3	1000	7	350	-2	5	-5	1000	-10	-1	-5	.	-2	25	5
1006	CU023	34.9995	78.7127	-0.1	0.3	1	12	0.5	-100	-5	7	3	3000	7	700	5	-5	-5	900	-10	7	10	.	-2	20	-5
1007	CU024	34.9634	78.6475	-0.1	0.1	0	-5	0.5	-100	-5	7	3	4000	9	1400	2	-5	-5	900	-10	8	5	.	-2	15	-5
1008	CU025	34.9201	78.6112	-0.1	-0.1	3	-5	0.5	-100	-5	5	3	1000	6	1100	2	15	-5	600	-10	4	-5	.	-2	45	7
1009	CU026	34.8917	78.5910	-0.1	-0.1	3	-5	0.5	-100	-5	9	3	1000	6	550	3	20	-5	600	-10	4	5	.	-2	-5	-5
1010	CU027	34.8848	78.5528	0.6	-0.1	1	7	0.5	-100	-5	25	4	2000	7	1500	-2	10	-5	1100	22	4	15	:	2	295	-5
1011	CU028	34.8526	78.5121	0.1	0.1	1	-5	-0.5	-100	-5	9	3	2000	5	650	-2	5	-5	900	-10	3	-5	.	-2	85	-5
1012	CU029	34.9076	78.6935	0.1	0.1	0	7	0.5	-100	-5	6	3	2000	6	1150	-2	-5	-5	600	-10	5	-5	.	-2	5	-5
1013	CU030	34.8546	78.6425	-0.1	0.1	2	-5	0.5	-100	5	6	5	2000	5	850	-2	5	-5	1000	30	6	10	.	-2	35	-5
1014	CU031	34.8953	78.8013	-0.1	-0.1		-5	1	100	-5	22	3	4000	6	1100	-2	10	-5	1500	15	7	25	.	-2	195	5
1279	DU015	34.9892	78.0098	1.5	0.4	3	7	0.5	-100	10	16	2	1000	6	850	4	20	7	700	-10	-1	-5	.	-2	-5	5
1289	DU025	34.9690	78.1338	1.1	0.1	3	27	0.5	-100	12	18	-2	-1000	5	-200	2	25	-5	900	-10	-1	10	.	2	-5	5
1290	DU026	34.9659	78.0780	2.1	0.4	4	15	0.5	-100	15	11	2	-1000	9	1050	3	30	-5	700	12	-1	-5	.	2	5	107
1291	DU027	34.9488	78.1256	0.9	0.4	4	10	-0.5	-100	5	12	-2	-1000	5	550	2	25	-5	600	-10	-1	-5	.	-2	10	5
1292	DU028	34.9102	78.1289	0.6	0.2	3	7	0.5	-100	10	14	2	3000	8	1150	-2	25	-5	700	-10	-1	-5	.	-2	10	-5
1293	DU029	34.9122	78.0371	2.2	0.5	4	10	0.5	100	15	18	4	2000	12	1450	3	35	5	600	12	-1	-5	.	2	-5	20
1295	DU031	34.9387	78.0473	0.9	0.1	4	5	0.5	-100	7	16	2	-1000	7	800	2	30	-5	600	-10	-1	-5	.	2	5	7
1296	DU032	34.8384	78.1246	1.2	0.5	8	5	0.5	-100	5	29	2	1000	9	350	4	75	-5	800	10	-1	-5	.	2	-5	5
1297	DU033	34.8132	78.1516	2.6	0.6	5	7	1	-100	12	14	4	2000	16	1150	-2	20	-5	600	35	1	-5	.	2	10	15
1298	DU034	34.8183	78.0841	1.2	0.2	3	12	-0.5	-100	7	32	2	-1000	7	800	-2	45	-5	600	10	-1	-5	.	3	10	-5
1299	DU035	34.7964	78.0406	0.9	0.3	30	22	-0.5	-100	5	16	2	-1000	13	-200	-2	25	-5	800	10	-1	5	.	2	5	7
1300	DU036	34.7860	78.0733	2.7	0.2	3	22	0.5	-100	10	65	2	1000	13	1200	3	35	-5	700	15	-1	-5	.	3	15	5
1301	DU037	34.7670	78.0539	1.2	0.1	2	10	0.5	-100	5	40	-2	-1000	8	200	3	45	-5	900	-10	-1	5	.	2	15	5
1302	DU038	34.7782	78.1301	1.0	0.4	2	5	-0.5	-100	5	18	3	-1000	10	450	-2	20	-5	600	10	-1	-5	.	-2	-5	5
1303	DU039	34.7443	78.1874	1.1	0.3	1	5	-0.5	-100	12	18	2	1000	12	1400	2	15	-5	900	10	2	5	.	-2	-5	7
1304	DU040	34.7304	78.1483	0.5	0.5	1	7	0.5	100	17	11	5	-1000	18	1500	2	40	5	600	20	1	-5	.	-2	5	20
1305	DU041	34.7237	78.1118	1.4	0.2	1	5	0.5	-100	7	18	-2	-1000	9	800	-2	45	-5	800	10	-1	-5	.	-2	5	-5

ELIZABETHTOWN 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
1306	DU042	34.7327	78.0145	1.4	0.2	1	10	0.5	500	10	34	2	1000	12	1300	-2	50	-5	800	20	1	-5	.	2	-5	7
1317	DU053	34.8657	78.0129	3.5	0.7	5	22	1	1200	27	9	14	1000	34	2400	3	30	7	1600	42	1	-5	.	2	-5	87
3518	SA001	34.9847	78.1599	0.9	-0.1	1	5	-0.5	-100	7	5	-2	2000	7	1800	-2	25	7	800	-10	-1	-5	.	2	5	5
3520	SA003	34.9607	78.1963	0.3	0.1	1	7	0.5	-100	-5	7	-2	2000	9	450	2	25	12	600	10	1	-5	.	-2	10	5
3521	SA004	34.9529	78.2288	4.6	0.4	2	12	0.5	-100	5	15	2	2000	7	850	3	30	10	800	10	-1	-5	.	2	145	5
3522	SA005	34.9549	78.2690	0.8	0.4	2	10	1	-100	10	9	2	5000	24	1900	3	25	15	1300	22	-1	-5	.	-2	10	5
3523	SA006	34.9027	78.2516	0.3	0.2	1	10	0.5	-100	7	11	-2	3000	9	1150	2	100	7	500	12	-1	-5	.	2	5	-5
3524	SA007	34.8375	78.2322	1.0	0.2	3	7	1	-100	12	22	4	4000	9	1500	3	100	12	800	15	-1	-5	.	2	120	10
3525	SA008	34.8279	78.2604	3.3	0.1		7	0.5	-100	-5	9	-2	3000	-5	600	-2	15	5	900	-10	-1	-5	.	2	130	-5
3526	SA009	34.8873	78.2976	1.8	0.2	1	-5	-0.5	-100	-5	12	-2	2000	-5	400	6	35	7	600	10	-1	-5	.	-2	145	-5
3527	SA010	34.8255	78.3860	2.8	-0.1	1	-5	-0.5	-100	7	10	2	3000	5	500	-2	25	10	600	-10	1	-5	.	2	70	-5
3528	SA011	34.7974	78.3693	1.4	-0.1	1	-5	0.5	-100	10	8	2	2000	7	400	3	15	15	500	-10	-1	-5	.	2	25	5
3529	SA012	34.8494	78.4390	1.3	-0.1		7	1	-100	7	10	6	3000	10	1500	-2	25	20	1000	17	-1	-5	.	2	35	12
3530	SA013	34.8760	78.4462	1.3	0.2		-5	-0.5	-100	-5	8	2	1000	-5	-200	3	25	12	600	-10	-1	-5	.	-2	10	-5
3531	SA014	34.9018	78.4324	2.1	0.3	1	-5	0.5	-100	-5	12	2	3000	9	450	2	40	15	500	-10	-1	-5	.	-2	70	-5
3532	SA015	34.9281	78.4505	4.0	0.1		15	-0.5	-100	7	20	2	2000	7	500	-2	40	12	800	10	-1	5	.	2	280	-5
3533	SA016	34.9004	78.5269	1.8	0.2	1	5	0.5	-100	5	8	-2	1000	-5	-200	-2	15	12	600	-10	-1	-5	.	-2	10	-5
3534	SA017	34.9988	78.2070	0.3	-0.1	1	7	0.5	-100	5	10	-2	1000	5	600	-2	15	10	600	-10	-1	-5	.	-2	10	-5
3561	SA044	34.9947	78.5002	11.9	0.2	0	5	0.5	-100	5	8	2	4000	7	1000	3	40	12	600	10	-1	10	.	-2	105	7
3562	SA045	34.9699	78.3872	8.1	0.1	1	5	-0.5	-100	-5	18	2	2000	5	650	-2	45	15	700	-10	-1	10	.	2	145	5
3563	SA046	34.9222	78.3921	1.7	0.2	1	10	-0.5	-100	5	16	2	1000	6	600	-2	30	15	700	-10	-1	-5	.	-2	15	5
3570	SA053	34.9581	78.4347	17.5	0.1	2	77	0.5	-100	-5	26	-2	1000	-5	-200	3	25	15	1200	15	-1	-5	.	2	295	7
3584	SA067	34.7572	78.3679	3.4	1.2	9	.	.	-100	5	.	5	.	.	.	9	50	20	.	15	2	-5	.	2	25	10
3585	SA068	34.7058	78.3409	.	.		.	.	.	.	.	.	.	.	.	.	30	.	.	.		.	.	.	.	.
3586	SA069	34.7109	78.2799	4.6	0.3	4	7	-0.5	-100	-5	10	-2	2000	5	650	-2	40	7	900	-10	-1	-5	.	-2	130	-5
3587	SA070	34.6713	78.2624	7.3	0.1	10	5	-0.5	-100	-5	11	-2	1000	-5	250	-2	10	10	900	-10	-1	-5	.	-2	30	22
3588	SA071	34.6817	78.2255	3.6	0.1	2	7	-0.5	-100	5	13	2	2000	7	500	3	.	15	800	10	-1	-5	.	.	10	-5
3589	SA072	34.6643	78.2070	3.5	0.1	0	7	0.5	-100	-5	18	2	2000	5	300	-2	25	17	1000	-10	-1	-5	.	-2	-5	-5
3590	SA073	34.7009	78.1468	2.0	0.4		10	0.5	200	15	.	5	2000	21	950	.	.	20	.	17		-5	.	.	.	20
3591	SA074	34.7145	78.1795	1.7	0.3	6	17	1	700	17	9	4	1000	20	700	-2	30	15	1300	22	-1	-5	.	-2	10	30
3592	SA075	34.7171	78.2554	14.7	0.1	4	7	-0.5	-100	-5	40	-2	1000	6	400	2	75	15	1100	17	-1	-5	.	3	205	-5
3593	SA076	34.7588	78.2847	3.0	0.4	10	25	0.5	-100	12	11	5	2000	10	350	3	50	20	800	10	-1	-5	.	-2	10	5
3594	SA077	34.7692	78.3302	4.4	0.1	10	5	-0.5	100	5	-5	5	1000	5	800	-2	15	5	800	12	-1	-5	.	-2	-5	7
3597	SA080	34.9815	78.3576	0.9	0.1		7	-0.5	-100	7	8	2	-1000	5	450	-2	25	5	500	-10	-1	5	.	-2	-5	-5

ELIZABETHTOWN 100K QUADRANGLE - SUPPLEMENTAL STREAM SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
3598	SA081	34.8245	78.2914	1.1	0.2	3	7	-0.5	-100	10	8	2	1000	6	450	-2	20	-5	600	-10	1	-5	.	-2	10	-5
3599	SA082	34.8709	78.2028	2.4	0.1	1	77	-0.5	-100	-5	36	-2	1000	5	400	4	25	-5	500	-10	-1	-5	.	-2	-5	-5

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
396	BL501	34.5851	78.5747	7.2	700	0.057	138	24500	.	2630	60	15830	-0.1	0.0	180	-0.001
397	BL502	34.5882	78.6278	6.1	60	0.132	44	7600	126	.	50	11480	-0.1	2.2	138	-0.001
398	BL503	34.5605	78.6616	7.0	260	0.060	49	6300	91	.	65	12980	-0.1	0.2	70	-0.001
399	BL504	34.5421	78.6865	5.1	180	0.053	66	24900	23	.	36	21610	-0.1	0.2	436	0.070
400	BL505	34.5111	78.7161	7.2	150	0.025	39	5800	86	2050	60	15200	-0.1	0.1	198	-0.001
401	BL506	34.5349	78.7517	6.0	70	0.019	50	8000	21	900	76	13820	-0.1	0.2	221	-0.001
402	BL507	34.5202	78.7762	6.1	100	0.021	.	7400	44	.	47	12480	-0.1	0.2	194	-0.001
406	BL511	34.5223	78.8247	7.1	325	0.016	36	6700	62	.	44	12650	-0.1	0.0	192	-0.001
407	BL512	34.5430	78.8531	5.2	90	0.024	50	8000	.	1040	56	13200	0.3	0.2	285	0.010
408	BL513	34.5642	78.8330	5.2	110	0.038	88	10100	.	2620	54	13370	-0.1	0.3	274	-0.001
409	BL514	34.5438	78.8079	6.5	185	0.024	79	. 5600	32	.	48	12540	-0.1	0.1	148	-0.001
410	BL515	34.5655	78.7822	5.8	65	0.008	22	6000	.	.	57	13880	0.6	0.1	138	-0.001
411	BL516	34.5825	78.8120	5.3	285	0.295	.	14400	72	.	71	15720	0.9	1.0	2208	0.460
412	BL517	34.6166	78.8279	4.7	80	0.042	.	7500	.	.	43	12610	-0.1	0.5	444	0.020
413	BL518	34.6342	78.8020	4.7	125	0.038	107	8400	.	2130	63	13090	-0.1	0.3	493	0.050
414	BL519	34.6150	78.7695	6.3	80	0.013	.	5300	38	1600	42	13910	-0.1	0.1	166	-0.001
415	BL520	34.5910	78.7457	4.9	90	0.020	100	13400	.	.	36	18750	-0.1	0.2	175	-0.001
416	BL521	34.5713	78.7163	7.2	130	0.247	52	5800	639	.	38	30430	-0.1	1.9	134	0.140
417	BL522	34.6115	78.6569	4.8	60	0.406	48	8500	.	1690	52	14970	-0.1	6.7	816	0.140
418	BL523	34.5815	78.6969	6.2	90	0.036	31	6300	.	.	97	12620	-0.1	0.4	151	-0.001
419	BL524	34.6367	78.6771	4.5	115	0.053	43	9300	.	.	60	15060	-0.1	0.4	1107	0.010
420	BL525	34.6317	78.7473	4.5	150	0.036	75	11400	.	.	64	15870	-0.1	0.2	551	0.030
421	BL526	34.6626	78.7716	4.2	180	0.183	127	6100	88	.	58	11980	-0.1	1.0	2076	0.180
422	BL527	34.6610	78.7126	6.2	90	0.025	35	6000	107	.	54	13180	-0.1	0.2	57	-0.001
423	BL528	34.6765	78.6956	4.8	110	0.014	75	8400	.	2620	69	12480	-0.1	0.1	437	0.020
424	BL529	34.6849	78.7450	4.7	200	0.073	89	11500	.	.	66	14060	-0.1	0.3	1203	0.050
425	BL530	34.7104	78.7755	4.6	65	0.020	65	8700	15	1300	34	16120	-0.1	0.3	164	-0.001
426	BL531	34.7276	78.8053	4.7	90	0.055	95	11400	.	.	57	15460	-0.1	0.6	416	0.050
427	BL532	34.7538	78.8354	4.9	40	0.037	97	6300	.	.	48	12830	-0.1	0.9	201	-0.001
428	BL533	34.7823	78.8603	4.3	140	0.179	61	12000	.	4170	68	14900	-0.1	1.2	884	0.190
429	BL534	34.8225	78.8591	4.6	130	0.118	.	11000	.	3560	55	14210	-0.1	0.9	571	0.060
430	BL535	34.8057	78.8310	5.5	125	0.015	55	7400	.	.	49	13200	-0.1	0.1	224	0.010
431	BL536	34.7830	78.8071	6.4	85	-0.002	32	5800	60	.	29	17150	-0.1	0.0	117	-0.001
432	BL537	34.7558	78.7743	5.4	50	0.028	67	6400	.	.	48	12920	1.0	0.5	221	0.010

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
433	BL538	34.8011	78.7759	5.3	25	0.008	.	4700	.	.	31	11630	-0.1	0.3	186	0.010
434	BL539	34.8207	78.7937	4.4	120	0.023	30	8800	.	.	180	13820	-0.1	0.1	2472	-0.001
435	BL540	34.7370	78.7473	5.4	165	0.009	44	9800	.	1690	88	13430	0.3	0.0	185	0.010
436	BL541	34.6719	78.6431	6.0	135	0.001	42	8100	.	.	62	14190	1.3	0.0	133	-0.001
437	BL542	34.7041	78.6597	5.3	25	0.027	38	5200	.	.	39	12470	0.7	1.0	211	-0.001
438	BL543	34.7196	78.6964	5.5	40	0.050	.	5800	.	.	40	12870	0.4	1.2	190	-0.001
439	BL544	34.8288	78.7364	5.7	90	0.010	61	8300	.	2300	43	10040	-0.1	0.1	31	-0.001
440	BL545	34.7817	78.6738	5.0	250	0.038	73	8800	.	.	56	12990	-0.1	0.1	284	-0.001
441	BL546	34.7715	78.6193	4.9	200	0.024	70	9500	14	4030	51	11570	-0.1	0.1	312	-0.001
442	BL547	34.8077	78.5844	5.8	65	0.017	48	6700	.	.	48	12250	-0.1	0.2	168	-0.001
443	BL548	34.8069	78.6216	5.0	25	0.014	66	4800	.	.	27	10480	-0.1	0.5	266	-0.001
444	BL549	34.8329	78.6202	5.2	80	0.060	115	7600	16	1580	70	13320	0.9	0.7	182	0.030
445	BL550	34.8213	78.5682	4.7	145	0.036	.	10500	.	2480	99	10380	-0.1	0.2	714	0.020
446	BL551	34.7579	78.5925	5.6	100	0.020	39	7600	.	940	46	10780	-0.1	0.2	108	-0.001
447	BL552	34.7750	78.5708	6.9	40	0.009	54	5200	.	.	34	10410	-0.1	0.2	134	-0.001
448	BL553	34.7869	78.5470	5.6	90	-0.002	107	7600	.	.	58	12800	0.9	0.0	100	-0.001
449	BL554	34.7820	78.5111	5.6	70	0.017	58	9100	.	.	53	13300	-0.1	0.2	95	-0.001
450	BL555	34.7972	78.4793	5.7	30	0.012	79	6000	.	.	32	11160	-0.1	0.4	172	-0.001
451	BL556	34.8394	78.4991	6.2	95	0.019	23	5100	593	1580	71	17920	0.9	0.2	119	-0.001
452	BL557	34.7742	78.4496	5.3	105	0.010	65	9100	.	2230	53	10750	-0.1	0.1	210	-0.001
453	BL558	34.7509	78.4857	5.3	135	0.019	66	8100	.	1310	59	9930	-0.1	0.1	174	-0.001
454	BL559	34.7218	78.5112	5.5	225	-0.002	.	18000	.	.	94	19840	-0.1	0.0	137	-0.001
455	BL560	34.7367	78.5507	5.9	30	0.001	41	5800	.	.	36	10300	-0.1	0.0	86	-0.001
456	BL561	34.6563	78.5885	7.0	195	0.033	44	6500	399	.	27	37350	-0.1	0.1	100	0.020
457	BL562	34.6814	78.5630	5.4	50	0.052	44	6100	.	.	40	11540	1.5	1.0	530	-0.001
458	BL563	34.7051	78.6086	7.0	225	-0.002	68	11000	123	2400	35	37370	-0.1	0.0	205	-0.001
459	BL564	34.7487	78.5739	5.4	70	0.009	64	9200	.	.	51	12360	-0.1	0.1	159	-0.001
460	BL565	34.7359	78.6025	6.2	90	-0.002	32	5800	.	.	103	10390	-0.1	0.0	117	-0.001
461	BL566	34.7426	78.6756	5.2	200	0.021	115	12100	45	6110	163	11660	-0.1	0.1	463	0.130
462	BL567	34.6413	78.5660	6.3	80	0.008	34	5100	226	.	56	12430	-0.1	0.1	146	-0.001
463	BL568	34.6517	78.5380	5.1	210	-0.002	113	8800	.	.	67	11310	-0.1	0.0	434	0.020
464	BL569	34.6563	78.4861	8.0	800	0.011	219	68900	171	3070	77	108940	-0.1	0.0	226	-0.001
465	BL570	34.6812	78.4879	5.5	40	0.008	55	7800	.	.	32	11410	0.7	0.2	236	-0.001
466	BL571	34.7094	78.4639	5.0	70	0.012	51	7700	.	1180	39	11750	-0.1	0.1	259	-0.001

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
467	BL572	34.6701	78.4495	5.7	30	0.002	86	6600	.	.	38	11870	-0.1	0.0	142	-0.001
468	BL573	34.7417	78.4296	5.6	40	0.010	47	7500	.	1230	39	11720	-0.1	0.2	157	-0.001
469	BL574	34.7228	78.3896	7.5	225	0.029	61	6000	33	1390	87	14240	-0.1	0.1	121	-0.001
470	BL575	34.6964	78.3727	7.6	350	0.005	61	5900	16	2480	93	14060	-0.1	0.0	132	-0.001
471	BL576	34.6886	78.4165	6.7	150	0.016	37	5600	171	1190	87	13840	0.5	0.1	175	-0.001
472	BL577	34.6707	78.3406	7.6	310	0.002	24	6100	29	5100	100	14440	-0.1	0.0	163	-0.001
473	BL578	34.6417	78.3200	5.0	70	0.015	90	7300	20	.	44	11310	-0.1	0.2	382	-0.001
474	BL579	34.6074	78.3154	7.4	300	0.001	.	5900	42	4310	75	13340	-0.1	0.0	202	-0.001
475	BL580	34.5750	78.2768	9.0	800	0.025	.	36700	495	9630	57	129460	-0.1	0.0	317	-0.001
476	BL581	34.5543	78.2941	5.3	100	0.001	69	5900	21	.	37	12750	1.0	0.0	320	-0.001
477	BL582	34.5297	78.2815	4.8	125	0.022	121	15600	.	6880	38	14910	-0.1	0.1	746	0.100
478	BL583	34.5012	78.2623	6.0	55	0.007	48	6900	.	.	20	11290	-0.1	0.1	205	-0.001
486	BL591	34.5835	78.4530	7.6	255	0.012	28	6700	35	6880	21	16360	-0.1	0.0	64	-0.001
487	BL592	34.5533	78.4294	7.4	220	0.032	62	5900	91	.	76	12330	0.5	0.1	97	-0.001
501	BL606	34.5301	78.4595	5.5	190	0.098	33	8500	.	3460	65	10720	-0.1	0.5	183	0.050
502	BL607	34.5204	78.4883	5.1	85	0.052	67	12600	.	1430	44	16400	-0.1	0.6	188	0.040
503	BL608	34.5528	78.4981	6.4	165	0.027	94	8200	139	1260	78	11970	-0.1	0.1	81	-0.001
504	BL609	34.5303	78.5159	7.1	300	0.032	41	7600	136	.	93	12900	-0.1	0.1	111	-0.001
505	BL610	34.5582	78.5526	7.5	250	-0.002	45	7000	69	5440	64	12950	-0.1	0.0	108	-0.001
506	BL611	34.5759	78.5237	7.8	195	0.017	47	6700	39	2310	48	13800	-0.1	0.0	178	-0.001
507	BL612	34.5398	78.5774	7.5	200	0.002	57	6400	36	1720	56	13170	-0.1	0.0	127	-0.001
508	BL613	34.5197	78.5462	7.9	168	0.008	60	6800	.	.	31	12040	0.4	0.0	117	-0.001
518	BL623	34.5374	78.6259	6.3	190	0.001	75	9700	73	.	52	13450	-0.1	0.0	160	-0.001
519	BL624	34.5171	78.6009	7.4	250	0.007	33	7300	55	.	65	13330	-0.1	0.0	149	-0.001
521	BL626	34.5673	78.5986	7.0	180	0.193	101	14800	.	.	41	18600	-0.1	1.0	164	-0.001
522	BL627	34.6084	78.6074	7.1	160	0.030	59	6300	125	.	48	14130	-0.1	0.1	203	-0.001
524	BL629	34.5851	78.3824	5.5	80	0.031	59	6900	.	.	85	12060	1.3	0.3	227	0.020
1420	CU503	34.9860	78.8136	5.5	60	-0.002	.	6500	.	.	14	1520	-0.1	0.0	15	-0.001
1421	CU504	34.9895	78.8365	5.5	51	-0.002	64	13800	39	.	56	2510	-0.1	0.0	130	-0.001
1430	CU513	34.9813	78.9615	5.4	42	-0.002	.	7800	.	.	28	3410	-0.1	0.0	68	-0.001
1432	CU515	34.9469	78.9636	5.2	43	0.049	24	6500	.	.	32	2790	-0.1	1.1	141	-0.001
1433	CU516	34.9247	78.9552	4.7	71	0.006	32	7500	.	.	34	3770	-0.1	0.0	308	-0.001
1438	CU521	34.9510	78.8347	4.9	75	0.003	.	7200	.	.	38	3820	-0.1	0.0	319	-0.001
1439	CU522	34.9180	78.8568	4.0	151	-0.002	.	10700	.	.	43	6780	-0.1	0.0	1138	-0.001

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
1440	CU523	34.9276	78.8753	6.0	39	-0.002	30	6100	.	.	31	4050	-0.1	0.0	47	-0.001
1441	CU524	34.9277	78.9125	4.8	40	-0.002	14	6700	.	.	23	3860	-0.1	0.0	105	-0.001
1442	CU525	34.9519	78.9234	4.5	73	0.022	41	9300	.	.	23	5040	-0.1	0.3	264	-0.001
1443	CU526	34.9866	78.9278	5.5	25	-0.002	27	4200	.	.	24	2730	-0.1	0.0	40	-0.001
1444	CU527	34.9927	78.8915	5.1	47	0.115	31	5900	.	.	22	4170	-0.1	2.4	148	0.050
1463	CU546	34.9828	78.7605	5.0	39	-0.002	25	4300	.	.	16	2790	-0.1	0.0	157	-0.001
1464	CU547	34.9548	78.7565	5.2	39	-0.002	32	6900	.	.	17	3890	-0.1	0.0	65	-0.001
1465	CU548	34.9097	78.8007	5.3	142	-0.002	21	9400	.	.	74	4500	-0.1	0.0	106	-0.001
1466	CU549	34.8540	78.8085	6.2	61	-0.002	29	5400	22	.	25	6580	-0.1	0.0	42	-0.001
1467	CU550	34.8842	78.7910	6.0	49	-0.002	19	4900	.	.	32	2490	-0.1	0.0	81	-0.001
1468	CU551	34.8921	78.7623	5.8	49	0.008	16	5300	.	.	23	2800	-0.1	0.1	129	-0.001
1469	CU552	34.9206	78.7639	5.1	60	0.006	34	5900	.	.	40	2760	0.4	0.1	85	0.060
1470	CU553	34.9209	78.7251	5.8	35	-0.002	21	5800	.	.	28	2810	0.6	0.0	85	-0.001
1471	CU554	34.9079	78.6859	6.3	159	-0.002	46	8300	.	.	50	4210	-0.1	0.0	99	-0.001
1472	CU555	34.8865	78.6794	5.2	29	-0.002	.	5400	.	.	14	2910	-0.1	0.0	144	-0.001
1473	CU556	34.8817	78.6389	5.5	169	-0.002	.	8600	.	.	39	2550	0.3	0.0	51	0.040
1474	CU557	34.8535	78.6195	6.0	129	-0.002	27	7500	.	.	56	4000	-0.1	0.0	51	-0.001
1475	CU558	34.8568	78.6532	5.7	48	-0.002	.	6500	.	.	38	3170	0.4	0.0	224	-0.001
1476	CU559	34.8810	78.7379	5.6	29	-0.002	23	4900	.	.	25	2600	-0.1	0.0	68	-0.001
1477	CU560	34.8622	78.7304	6.1	44	-0.002	33	5200	.	.	32	2290	0.3	0.0	49	-0.001
1478	CU561	34.9422	78.7194	5.0	90	0.034	10	4600	17	.	33	2940	-0.1	0.3	217	-0.001
1479	CU562	34.9809	78.7343	5.2	88	-0.002	16	14300	.	.	33	6470	-0.1	0.0	143	-0.001
1481	CU564	34.8555	78.5209	6.1	30	-0.002	21	5800	.	.	29	3140	-0.1	0.0	34	-0.001
1482	CU565	34.8530	78.5484	5.2	67	-0.002	29	5800	.	.	26	3550	-0.1	0.0	98	-0.001
1483	CU566	34.8813	78.5266	4.5	82	-0.002	.	3500	.	.	35	2390	-0.1	0.0	499	0.080
1484	CU567	34.8881	78.5574	4.5	121	0.055	19	8600	.	.	40	4370	-0.1	0.4	571	-0.001
1485	CU568	34.9089	78.5669	7.3	195	0.022	16	9100	306	.	19	19670	-0.1	0.1	31	-0.001
1486	CU569	34.8977	78.6050	6.4	62	-0.002	21	4300	174	.	48	4790	-0.1	0.0	37	-0.001
1487	CU570	34.9183	78.6473	5.8	39	-0.002	16	5600	.	.	27	2830	0.4	0.0	94	-0.001
1488	CU571	34.9223	78.6017	5.6	95	0.002	22	5800	.	.	33	2650	-0.1	0.0	41	-0.001
1489	CU572	34.9429	78.6087	4.9	82	0.018	.	5900	.	.	32	2690	-0.1	0.2	349	-0.001
1490	CU573	34.9515	78.6413	4.9	51	-0.002	27	7400	.	.	20	5020	-0.1	0.0	66	-0.001
1491	CU574	34.9518	78.6912	5.5	29	-0.002	18	3600	.	.	23	3050	0.1	0.0	33	-0.001
1492	CU575	34.9789	78.6443	4.4	189	0.070	.	8300	.	.	49	3660	-0.1	0.3	642	0.640

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
1493	CU576	34.9814	78.6891	7.0	388	0.015	.	16800	.	4140	.	27170	-0.1	0.0	38	-0.001
1513	CU596	34.9455	78.8675	3.9	120	0.023	.	4300	.	.	13	2300	-0.1	0.1	909	-0.001
1514	CU597	34.9440	78.8099	5.0	94	0.052	42	8300	.	.	25	3990	-0.1	0.5	124	-0.001
1515	CU598	34.8858	78.8464	5.1	15	-0.002	16	4200	.	.	11	2400	-0.1	-0.1	39	-0.001
1516	CU599	34.8502	78.8564	5.7	34	-0.002	18	4900	.	.	17	2670	0.2	0.0	44	-0.001
1517	CU600	34.8524	78.8776	4.9	70	-0.002	21	6000	.	.	32	2260	-0.1	0.0	215	-0.001
1518	CU601	34.8884	78.8832	4.9	49	0.069	.	7100	.	.	15	3810	-0.1	1.4	67	-0.001
1519	CU602	34.8826	78.9169	5.0	55	-0.002	.	5800	.	.	24	2970	-0.1	0.0	155	-0.001
1682	DU501	34.9771	78.1260	6.6	130	0.020	38	7900	84	.	72	11650	0.4	0.1	143	-0.001
1694	DU513	34.9428	78.1340	8.1	166	0.006	15	6400	68	.	70	11630	-0.1	0.0	73	20.980
1695	DU514	34.9176	78.1237	5.1	68	0.144	56	9800	.	.	80	13850	-0.1	2.1	278	26.740
1696	DU515	34.8784	78.0812	7.0	168	0.019	.	7100	181	.	100	11750	0.8	0.1	174	-0.001
1697	DU516	34.8502	78.1032	6.7	99	0.003	31	7900	176	.	78	11300	0.4	0.0	151	15.710
1698	DU517	34.8379	78.1426	7.7	160	0.009	.	7000	67	1590	69	12390	-0.1	0.0	162	-0.001
1699	DU518	34.8181	78.1716	5.4	40	0.079	84	9700	20	.	71	12350	-0.1	1.9	173	-0.001
1700	DU519	34.7838	78.1830	4.2	160	0.255	.	9100	111	.	88	12450	-0.1	1.5	1244	-0.001
1701	DU520	34.7480	78.1674	7.6	182	0.018	30	7400	77	1480	115	12200	-0.1	0.1	155	-0.001
1702	DU521	34.7215	78.1426	7.6	280	0.013	52	8700	72	4800	122	14280	-0.1	0.0	161	-0.001
1703	DU522	34.7491	78.1304	5.7	70	0.009	115	14500	52	.	74	14460	-0.1	0.1	151	-0.001
1704	DU523	34.7528	78.0875	7.5	282	0.010	.	8300	194	2040	122	14680	-0.1	0.0	219	-0.001
1705	DU524	34.7830	78.1335	7.5	280	0.010	41	8300	42	3090	135	14140	-0.1	0.0	163	-0.001
1706	DU525	34.8259	78.1267	8.0	160	-0.002	27	7400	87	.	71	11910	-0.1	0.0	154	-0.001
1707	DU526	34.8923	78.1418	7.3	265	-0.002	9	7600	66	.	150	12360	-0.1	0.0	140	-0.001
1708	DU527	34.9209	78.0854	6.4	99	0.087	.	7600	165	.	78	11590	-0.1	0.8	167	7.160
1709	DU528	34.9596	78.0925	4.2	195	1.085	31	15400	149	.	96	14590	-0.1	5.5	2944	4.710
1710	DU529	34.9467	78.0598	7.8	170	-0.002	23	8100	78	.	76	12300	-0.1	0.0	155	-0.001
1711	DU530	34.9224	78.0633	7.7	335	0.108	.	16300	.	1620	72	15980	-0.1	0.3	140	-0.001
1712	DU531	34.8763	78.0560	7.1	320	0.119	.	7900	129	1850	79	12240	-0.1	0.3	58	-0.001
1713	DU532	34.8587	78.0626	5.5	108	0.012	.	11400	81	.	100	13070	-0.1	0.1	163	-0.001
1714	DU533	34.8184	78.0888	7.2	328	0.158	.	8600	43	2140	93	13890	-0.1	0.4	149	-0.001
1715	DU534	34.8253	78.0554	7.4	280	0.005	.	7400	76	.	130	12520	0.6	0.0	130	-0.001
1716	DU535	34.7917	78.0835	7.7	255	-0.002	22	7000	83	.	83	12590	-0.1	0.0	139	-0.001
1717	DU536	34.7337	78.1719	4.9	338	0.205	13	56800	.	.	102	33360	-0.1	0.6	405	-0.001
1719	DU538	34.8358	78.0119	7.3	300	0.005	29	8400	135	1350	114	12700	-0.1	0.0	151	-0.001

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
1720	DU539	34.8623	78.0188	7.5	368	-0.002	.	7800	79	.	104	12430	-0.1	0.0	154	-0.001
1735	DU554	34.9819	78.0225	6.3	60	-0.002	21	6300	303	.	35	3390	-0.1	0.0	52	-0.001
1736	DU555	34.9793	78.0435	6.1	58	-0.002	9	4500	258	.	47	2560	-0.1	0.0	23	-0.001
1789	DU608	34.7929	78.0532	8.2	215	-0.002	16	4300	30	.	36	3660	-0.1	0.0	34	-0.001
1790	DU609	34.7592	78.0492	8.0	230	-0.002	.	4100	32	.	29	2720	-0.1	0.0	32	-0.001
1791	DU610	34.7539	78.0117	7.4	420	-0.002	20	5600	39	.	97	3640	-0.1	0.0	31	-0.001
1792	DU611	34.9433	78.0208	7.9	230	-0.002	25	4700	47	.	33	3920	-0.1	0.0	28	-0.001
1793	DU612	34.9268	78.0115	7.5	190	-0.002	10	4900	40	.	27	2640	-0.1	0.0	56	-0.001
1794	DU613	34.8851	78.0062	6.9	172	-0.002	31	5600	149	.	37	3120	-0.1	0.0	40	-0.001
1809	DU628	34.7817	78.0074	7.7	375	0.021	47	7500	121	5110	84	12280	-0.1	0.0	147	-0.001
1845	DU664	34.9862	78.1002	6.0	70	0.012	32	12200	57	.	103	13090	-0.1	0.1	204	-0.001
3906	PE505	34.6795	78.0372	7.4	360	-0.002	.	3600	48	4460	64	18430	-0.1	0.0	162	-0.001
3907	PE506	34.6993	78.0087	7.4	410	0.008	.	4500	98	6370	42	19980	-0.1	0.0	141	-0.001
3908	PE507	34.7189	78.0486	7.9	250	-0.002	.	3700	77	1760	57	29310	-0.1	0.0	138	-0.001
3909	PE508	34.7077	78.0665	7.3	360	0.010	.	4500	131	4410	101	19520	-0.1	0.0	75	-0.001
3910	PE509	34.6255	78.0360	7.4	440	0.012	16	5600	.	14360	39	19730	-0.1	0.0	129	-0.001
3914	PE513	34.5580	78.0027	5.2	110	0.049	18	18000	50	.	35	24140	-0.1	0.4	205	0.050
3915	PE514	34.5398	78.0432	7.7	430	0.015	.	5100	110	17470	17	30440	-0.1	0.0	44	0.020
3916	PE515	34.5505	78.0764	7.8	400	0.012	.	3900	119	17260	88	16260	-0.1	0.0	130	-0.001
3917	PE516	34.5860	78.0987	7.6	420	0.028	.	5100	82	10500	97	14460	-0.1	0.0	147	-0.001
3918	PE517	34.6351	78.0980	7.5	430	0.007	.	4600	44	11050	140	15510	-0.1	0.0	160	-0.001
3919	PE518	34.6520	78.0570	7.4	480	0.021	14	6800	96	9710	134	15110	-0.1	0.0	172	-0.001
3920	PE519	34.6606	78.1250	7.5	350	0.004	34	4900	63	3050	231	14070	-0.1	0.0	124	-0.001
3921	PE520	34.6249	78.1337	6.9	260	0.033	.	5900	105	5510	152	13530	0.4	0.1	128	-0.001
3922	PE521	34.6030	78.1276	7.6	390	0.017	21	4700	67	5400	138	13970	0.3	0.0	128	-0.001
3923	PE522	34.6048	78.1848	7.6	360	0.009	.	4500	45	8700	159	14310	-0.1	0.0	99	0.020
3924	PE523	34.6035	78.0546	7.5	490	-0.002	.	6400	28	16940	89	15180	-0.1	0.0	149	-0.001
3925	PE524	34.5990	78.0080	8.2	800	0.062	.	5000	944	.	165	114580	-0.1	0.0	134	-0.001
3928	PE527	34.5311	78.0969	8.0	330	0.002	.	4000	263	12180	80	24860	-0.1	0.0	169	-0.001
3929	PE528	34.5310	78.1532	6.7	110	0.022	.	5600	90	1850	114	13170	-0.1	0.2	174	-0.001
3930	PE529	34.5069	78.1754	7.7	300	0.009	.	5100	162	14170	87	15590	-0.1	0.0	143	-0.001
3934	PE533	34.5053	78.1229	8.4	600	-0.002	.	12100	571	.	152	98240	-0.1	0.0	278	-0.001
3939	PE538	34.5034	78.0691	4.9	60	0.049	.	10300	.	.	73	15540	-0.1	0.8	202	-0.001
3946	PE545	34.5551	78.1299	7.5	380	0.008	17	4500	152	12980	78	24540	-0.1	0.0	143	-0.001

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
3947	PE546	34.5796	78.1456	7.3	80	-0.002	57	10100	13	.	74	15860	-0.1	0.0	91	0.010
3948	PE547	34.5550	78.1782	5.9	50	0.009	.	5900	51	.	74	12350	-0.1	0.1	158	-0.001
3949	PE548	34.5529	78.2489	5.1	30	-0.002	.	4400	14	.	59	11020	-0.1	0.0	286	-0.001
3950	PE549	34.5377	78.2017	7.3	280	0.017	.	3800	187	12350	86	15220	-0.1	0.0	214	-0.001
4316	RB503	34.7416	78.9906	5.9	39	0.049	.	3300	.	.	29	15140	-0.1	1.2	119	-0.001
4317	RB504	34.7888	78.9822	5.1	50	0.029	57	5900	28	1700	42	17270	-0.1	0.5	196	-0.001
4318	RB505	34.8072	78.9516	5.5	65	0.051	27	4800	.	1890	48	14930	-0.1	0.7	258	0.030
4319	RB506	34.8243	78.9147	4.8	51	0.090	.	4700	48	1350	55	16930	-0.1	1.7	340	0.030
4320	RB507	34.8501	78.9351	4.6	155	0.217	.	12900	.	5220	88	18190	-0.1	1.4	844	0.460
4321	RB508	34.8828	78.9743	5.1	30	0.035	13	3500	.	.	33	14760	-0.1	1.1	112	0.010
4326	RB513	34.8594	78.9995	5.2	29	0.022	.	5200	19	.	30	16390	-0.1	0.7	62	-0.001
4327	RB514	34.8310	78.9769	5.6	30	0.026	15	4400	14	.	39	14950	-0.1	0.8	47	-0.001
4443	RB630	34.5034	78.9765	6.8	109	0.004	.	3800	148	.	57	22800	-0.1	0.0	121	-0.001
4446	RB633	34.5165	78.9534	6.5	73	-0.002	.	3400	86	.	56	17620	-0.1	0.0	71	-0.001
4449	RB636	34.5430	78.9822	5.3	40	0.346	.	6300	.	.	56	13840	-0.1	8.6	133	-0.001
4451	RB638	34.5218	78.9016	6.1	111	0.015	30	4600	.	.	89	12890	-0.1	0.1	43	-0.001
4452	RB639	34.5426	78.9211	5.4	43	0.032	22	5200	.	.	55	12750	0.7	0.7	139	0.020
4453	RB640	34.5605	78.9565	7.0	140	0.014	.	3300	145	1960	62	20240	-0.1	0.1	41	-0.001
4454	RB641	34.5854	78.9930	6.4	100	0.022	.	9000	.	2300	101	13300	0.6	0.2	124	0.020
4455	RB642	34.6142	78.9565	6.9	116	0.017	.	4600	24	.	48	12670	-0.1	0.1	122	-0.001
4456	RB643	34.5936	78.9240	5.8	260	0.023	.	20300	.	1100	73	29660	-0.1	0.0	86	-0.001
4457	RB644	34.5583	78.8968	5.0	385	0.014	.	13100	.	6260	154	20710	-0.1	0.0	400	-0.001
4458	RB645	34.5837	78.8735	6.7	122	0.003	.	3800	111	4070	76	20610	-0.1	0.0	38	-0.001
4459	RB646	34.6159	78.8917	5.4	45	0.039	.	7200	.	.	46	14500	-0.1	0.8	89	-0.001
4460	RB647	34.6376	78.8550	7.0	140	0.002	15	3200	27	1060	55	12660	-0.1	0.0	25	-0.001
4461	RB648	34.6546	78.8413	5.8	65	0.027	84	6200	.	1720	57	12890	-0.1	0.4	168	-0.001
4462	RB649	34.6814	78.8559	7.3	190	0.006	.	3100	155	1530	54	26060	-0.1	0.0	52	-0.001
4463	RB650	34.7072	78.8413	5.4	30	0.033	.	4300	10	.	40	12590	-0.1	1.1	51	-0.001
4464	RB651	34.6421	78.9226	7.3	348	0.024	.	5000	44	1060	76	13720	-0.1	0.0	49	-0.001
4465	RB652	34.6625	78.8861	7.6	210	-0.002	.	3400	19	.	50	11670	-0.1	0.0	36	-0.001
4466	RB653	34.7136	78.8942	7.3	225	0.015	.	4500	54	.	55	13800	-0.1	0.0	46	-0.001
4467	RB654	34.7224	78.8629	6.0	40	0.009	19	4000	.	.	45	11300	-0.1	0.2	109	-0.001
4468	RB655	34.7375	78.9168	5.8	40	0.014	.	4700	31	.	90	11190	-0.1	0.3	161	10.160
4469	RB656	34.7583	78.8921	5.8	170	-0.002	529	23600	.	.	87	23870	-0.1	0.0	178	-0.001

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
4470	RB657	34.7850	78.9223	4.6	42	0.016	.	7100	.	.	83	13150	-0.1	0.3	231	-0.001
4471	RB658	34.8018	78.8949	5.7	103	0.017	.	9100	.	.	100	14790	0.3	0.1	153	-0.001
4472	RB659	34.7619	78.9479	5.2	155	0.076	.	23100	.	.	105	21140	-0.1	0.4	318	35.670
4473	RB660	34.7145	78.9455	6.1	70	-0.002	.	5900	63	.	70	20600	-0.1	0.0	122	23.500
4474	RB661	34.6927	78.9184	7.4	245	-0.002	.	4300	67	.	90	12890	-0.1	0.0	110	-0.001
4475	RB662	34.6653	78.9437	7.5	260	-0.002	18	5200	46	.	99	12650	0.6	0.0	151	-0.001
4476	RB663	34.6364	78.9816	6.7	70	0.010	631	7000	25	.	91	11490	0.3	0.1	124	-0.001
4477	RB664	34.6891	78.9758	6.6	91	0.060	.	4200	252	.	101	12080	-0.1	0.6	116	-0.001
4478	RB665	34.6711	78.9981	7.1	255	-0.002	.	3800	50	.	106	11270	-0.1	0.0	69	-0.001
4706	SA501	34.9848	78.1781	7.7	226	0.019	35	7700	48	.	44	13030	-0.1	0.0	80	-0.001
4711	SA506	34.9853	78.2094	5.6	58	0.012	28	7600	17	1180	80	13550	-0.1	0.2	117	9.580
4732	SA527	34.9837	78.2517	4.4	191	0.015	89	28000	57	.	82	20290	-0.1	0.0	1249	-0.001
4752	SA547	34.9427	78.1608	5.5	48	0.013	16	7300	58	.	46	12240	-0.1	0.2	136	11.030
4753	SA548	34.9259	78.1760	5.3	19	0.013	.	6300	19	.	33	11880	-0.1	0.6	93	-0.001
4754	SA549	34.9227	78.2218	5.9	99	-0.002	.	7600	27	.	110	14090	0.3	0.0	157	-0.001
4755	SA550	34.8823	78.1955	6.6	59	0.013	.	5900	.	.	80	11450	-0.1	0.2	89	-0.001
4756	SA551	34.8643	78.1896	7.3	321	0.176	23	23800	.	1830	74	24630	2.1	0.5	1164	-0.001
4757	SA552	34.8217	78.2064	6.7	74	0.024	.	6600	156	.	55	12270	0.3	0.3	131	-0.001
4758	SA553	34.8147	78.1859	5.5	70	0.096	.	8100	.	1870	51	12990	-0.1	1.3	305	28.440
4759	SA554	34.7566	78.2059	4.8	127	0.015	97	11900	45	1640	73	13880	-0.1	0.1	846	2.820
4760	SA555	34.7277	78.2239	6.5	150	0.052	.	14800	34	.	67	21800	0.5	0.3	772	-0.001
4761	SA556	34.7239	78.1732	7.6	271	0.033	10	7300	102	3820	95	13670	-0.1	0.1	151	-0.001
4762	SA557	34.6940	78.1656	6.6	191	-0.002	.	7600	420	1200	98	15290	-0.1	0.0	53	-0.001
4763	SA558	34.7042	78.1387	7.3	300	-0.002	.	8000	98	.	98	14200	-0.1	0.0	43	-0.001
4764	SA559	34.6920	78.2147	5.2	33	0.005	.	9500	.	.	43	12410	0.4	0.1	184	-0.001
4765	SA560	34.6614	78.1999	7.4	184	0.011	21	7500	92	1000	117	13810	-0.1	0.0	54	-0.001
4766	SA561	34.6645	78.2253	5.5	45	0.004	16	7800	.	.	46	11800	0.7	0.0	314	-0.001
4767	SA562	34.6409	78.2232	6.4	88	0.011	.	8300	.	.	62	12900	-0.1	0.1	75	-0.001
4768	SA563	34.5931	78.2426	5.4	31	0.020	.	8300	.	.	42	12330	-0.1	0.6	128	-0.001
4769	SA564	34.5654	78.2495	5.9	25	-0.002	.	5600	.	.	50	11460	-0.1	0.0	79	-0.001
4770	SA565	34.7943	78.2135	5.5	82	0.022	13	9500	21	.	51	13650	-0.1	0.2	157	-0.001
4771	SA566	34.8520	78.2016	6.2	42	-0.002	.	6300	.	.	43	11490	-0.1	0.0	86	-0.001
4772	SA567	34.9531	78.1999	7.9	234	-0.002	.	6700	69	.	84	12930	-0.1	0.0	81	7.190
4773	SA568	34.9524	78.2504	6.6	50	-0.002	24	8100	117	.	58	11600	-0.1	0.0	68	-0.001

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
4774	SA569	34.9772	78.2926	6.8	55	0.026	23	10600	.	900	50	15350	-0.1	0.4	195	21.950
4775	SA570	34.9838	78.3234	7.0	52	0.003	.	9000	.	.	126	12050	-0.1	0.0	104	-0.001
4776	SA571	34.9546	78.2955	7.2	132	0.005	.	6700	85	.	93	13400	-0.1	0.0	76	-0.001
4777	SA572	34.9147	78.2547	6.5	162	-0.002	.	6800	29	.	51	13130	-0.1	0.0	60	-0.001
4778	SA573	34.8772	78.2509	6.9	195	0.007	.	7700	44	2060	71	16490	-0.1	0.0	97	-0.001
4779	SA574	34.8611	78.2624	6.8	67	-0.002	.	6400	259	1380	74	13400	-0.1	0.0	83	-0.001
4780	SA575	34.8255	78.2435	6.8	68	0.003	.	10500	18	1400	62	11750	-0.1	0.0	183	6.060
4781	SA576	34.7936	78.2474	6.7	135	0.041	13	18100	.	1220	53	14770	-0.1	0.3	336	-0.001
4782	SA577	34.7950	78.3050	6.7	85	-0.002	.	6500	165	1900	90	12820	-0.1	0.0	55	-0.001
4783	SA578	34.7904	78.3229	6.4	240	0.016	16	14400	88	2460	87	34980	-0.1	0.0	107	-0.001
4784	SA579	34.8263	78.3338	7.0	83	0.031	.	10300	41	2300	81	13060	-0.1	0.3	652	13.130
4785	SA580	34.8185	78.2983	6.7	145	-0.002	.	5900	96	1160	133	12360	-0.1	0.0	71	-0.001
4786	SA581	34.8491	78.2868	6.3	163	-0.002	23	6000	27	2100	90	12210	-0.1	0.0	89	-0.001
4787	SA582	34.8557	78.3294	6.9	61	0.006	19	5500	63	.	75	12240	-0.1	0.1	70	-0.001
4788	SA583	34.8830	78.3356	6.9	57	-0.002	.	9400	.	1270	44	14530	-0.1	0.0	45	18.530
4789	SA584	34.8855	78.2911	6.8	26	0.003	.	7300	.	.	35	11520	-0.1	0.1	85	-0.001
4790	SA585	34.9140	78.2870	6.8	97	0.001	.	6500	191	.	104	11880	0.2	0.0	81	-0.001
4791	SA586	34.9212	78.3305	6.9	43	0.014	34	7900	.	.	53	12420	-0.1	0.3	55	-0.001
4792	SA587	34.9491	78.3368	6.6	160	0.088	11	12600	.	5120	64	16510	-0.1	0.5	311	-0.001
4844	SA639	34.9851	78.4083	4.6	70	0.054	.	10900	.	1330	66	11050	-0.1	0.7	292	-0.001
4845	SA640	34.9947	78.3730	5.9	78	0.006	.	5700	293	1410	68	11000	-0.1	0.0	40	-0.001
4846	SA641	34.9899	78.4470	4.9	90	0.069	9	8500	37	1480	63	9210	-0.1	0.7	374	-0.001
4852	SA647	34.9844	78.6056	5.2	25	0.027	22	7400	.	.	48	9810	1.3	1.0	173	-0.001
4853	SA648	34.9602	78.5749	5.1	19	0.030	49	6400	.	.	49	9240	0.3	1.5	163	-0.001
4854	SA649	34.9870	78.5602	5.3	31	0.023	.	6900	.	.	51	10780	-0.1	0.7	168	-0.001
4855	SA650	34.9801	78.5173	4.3	91	0.037	.	10800	.	810	61	11180	-0.1	0.4	339	-0.001
4856	SA651	34.9440	78.5197	5.4	39	0.040	19	7100	.	.	63	10320	-0.1	1.0	163	-0.001
4857	SA652	34.9121	78.5201	5.5	122	0.028	.	13200	.	3040	80	11110	-0.1	0.2	248	-0.001
4858	SA653	34.9790	78.4924	6.3	53	0.015	20	5200	154	.	59	12810	-0.1	0.2	170	-0.001
4859	SA654	34.9575	78.4825	7.1	93	0.028	51	4700	592	.	53	19040	0.3	0.3	167	-0.001
4860	SA655	34.9596	78.4554	6.4	52	0.010	39	5500	147	.	55	12270	-0.1	0.1	153	-0.001
4861	SA656	34.9480	78.4088	4.9	43	0.019	15	7500	.	2130	54	10560	-0.1	0.4	185	-0.001
4862	SA657	34.9195	78.3661	4.5	123	0.094	48	14500	88	.	74	10020	0.5	0.7	931	-0.001
4863	SA658	34.9476	78.3602	7.1	60	0.005	374	7100	93	.	70	10620	-0.1	0.0	162	-0.001

ELIZABETHTON 100K QUADRANGLE - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
4864	SA659	34.9094	78.4148	5.4	35	0.015	69	7200	.	.	60	10770	0.3	0.4	162	-0.001
4865	SA660	34.9179	78.4355	5.3	38	0.013	57	8800	.	1470	66	11590	0.8	0.3	181	-0.001
4866	SA661	34.9266	78.4869	5.6	40	0.013	30	7400	.	880	56	10910	-0.1	0.3	134	-0.001
4867	SA662	34.8914	78.4850	5.8	88	0.009	57	9300	.	.	95	11610	1.1	0.1	192	-0.001
4868	SA663	34.8820	78.4487	5.6	152	0.028	48	10600	.	.	110	10930	0.5	0.1	197	-0.001
4869	SA664	34.8727	78.4819	6.3	63	0.018	27	6200	21	.	74	12200	-0.1	0.2	154	-0.001
4870	SA665	34.8557	78.4390	6.6	145	0.032	14	6100	161	.	135	13560	-0.1	0.2	146	-0.001
4871	SA666	34.8335	78.4456	5.5	48	0.010	.	9700	.	.	64	13160	0.6	0.2	190	-0.001
4872	SA667	34.8420	78.4041	5.1	24	0.010	57	7300	.	.	70	10870	0.5	0.4	200	8.980
4873	SA668	34.8558	78.3724	5.5	22	0.001	26	7500	.	.	67	10220	-0.1	0.0	159	-0.001
4874	SA669	34.8158	78.3781	4.4	179	0.095	29	8600	33	1930	95	12650	-0.1	0.5	895	-0.001
4875	SA670	34.7921	78.3602	5.9	39	0.010	17	5900	.	.	81	10960	-0.1	0.2	168	-0.001
4876	SA671	34.7895	78.4099	4.9	55	0.019	32	8400	18	.	66	12360	-0.1	0.3	338	-0.001
4877	SA672	34.8248	78.4122	4.9	80	0.013	33	9500	27	2150	75	13820	-0.1	0.1	272	-0.001
4878	SA673	34.7612	78.3641	4.7	115	0.026	44	11000	.	.	83	13400	-0.1	0.2	403	-0.001
4879	SA674	34.7244	78.3680	5.6	51	0.014	33	7200	.	.	89	10470	0.4	0.2	161	-0.001
4880	SA675	34.7580	78.3233	5.2	188	0.021	39	11900	45	4110	99	10860	0.4	0.1	242	-0.001
4881	SA676	34.8914	78.4122	4.7	70	0.030	67	7900	.	.	80	11160	-0.1	0.4	341	-0.001
4882	SA677	34.7124	78.3283	7.6	271	0.003	23	6900	43	7610	246	11740	-0.1	0.0	150	9.250
4883	SA678	34.7207	78.2979	6.2	94	0.019	.	12000	.	.	85	13160	0.7	0.2	208	3.640
4884	SA679	34.6200	78.3028	6.9	172	0.007	43	6600	348	.	89	10640	0.4	0.0	94	-0.001
4885	SA680	34.6555	78.2831	5.8	125	0.002	33	7600	18	1810	80	11140	-0.1	0.0	182	-0.001
4886	SA681	34.6221	78.2650	5.6	27	0.012	23	6200	.	.	54	10300	-0.1	0.4	148	-0.001
4887	SA682	34.6716	78.2536	5.5	165	0.008	38	7600	65	.	67	11370	-0.1	0.0	206	-0.001
4888	SA683	34.6900	78.2638	5.7	19	-0.002	32	5700	.	.	75	10590	-0.1	-0.1	131	-0.001
4889	SA684	34.7185	78.2497	6.7	111	0.023	42	6000	119	2100	111	11330	-0.1	0.2	170	-0.001
4890	SA685	34.7654	78.2495	5.3	140	0.044	42	13300	.	.	81	16820	-0.1	0.3	287	-0.001
4891	SA686	34.9052	78.3546	5.0	72	0.061	63	7900	16	.	65	11430	-0.1	0.8	290	0.090

ELIZABETHTON 100K QUADRANGLE STREAM WATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Al ppb	Br ppb	Cl ppb	Dy ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000
1	CU001	34.9543	78.7530	4.3	62	0.087	376	25	11200	-0.001	.	.	110	14350	-0.1	1.40
2	CU002	34.9324	78.7756	5.7	52	0.048	197	35	9900	-0.001	.	.	93	11790	0.4	0.92
3	CU003	34.8904	78.7564	3.9	50	0.089	414	98	9100	-0.001	.	.	111	12120	0.6	1.78
7	CU007	34.8992	78.9168	4.8	70	0.350	406	47	9500	-0.001	42	.	121	13120	0.6	5.00
8	CU008	34.9148	78.9563	5.8	42	0.116	311	44	11100	-0.001	.	.	113	13350	0.7	2.76
9	CU009	34.9108	78.8394	4.3	58	0.072	375	.	12100	-0.001	.	.	102	14150	-0.1	1.24
10	CU010	34.8593	78.8490	4.8	55	0.025	424	56	10800	-0.001	24	.	111	12830	0.7	0.45
11	CU011	34.8530	78.8767	6.1	60	0.081	193	.	14000	0.100	.	1750	110	12940	-0.1	1.35
23	CU023	34.9995	78.7127	5.8	53	0.067	325	34	10500	-0.001	.	.	115	14470	0.9	1.26
24	CU024	34.9634	78.6475	5.9	68	0.045	183	44	12600	-0.001	.	.	105	14820	-0.1	0.66
25	CU025	34.9201	78.6112	6.2	54	0.072	1166	62	9700	-0.001	59	.	104	14180	1.9	1.33
26	CU026	34.8917	78.5910	5.0	41	0.035	314	54	10000	-0.001	.	.	104	12400	-0.1	0.85
27	CU027	34.8848	78.5528	5.1	60	0.032	291	31	11100	-0.001	37	2490	109	14330	0.4	0.53
28	CU028	34.8526	78.5121	5.1	30	0.050	331	26	9200	-0.001	.	.	98	13010	-0.1	1.67
29	CU029	34.9076	78.6935	5.3	50	0.028	217	53	9400	-0.001	.	.	111	12820	-0.1	0.56
30	CU030	34.8546	78.6425	4.7	74	0.012	154	59	9400	-0.001	.	1490	98	13440	-0.1	0.16
31	CU031	34.8953	78.8013	5.6	44	0.012	140	21	6000	-0.001	.	.	110	12050	-0.1	0.27
62	DU015	34.9892	78.0098	6.6	65	0.083	164	57	12400	-0.001	77	.	25	5830	0.3	1.28
71	DU025	34.9690	78.1338	7.1	120	0.166	98	58	11300	-0.001	75	.	10	6120	-0.1	1.38
72	DU026	34.9659	78.0780	6.3	85	0.046	83	.	13200	-0.001	110	.	42	5830	-0.1	0.54
73	DU027	34.9488	78.1256	6.9	85	10.480	79	41	12200	-0.001	110	.	17	5130	0.5	123.29
74	DU028	34.9102	78.1289	6.8	100	0.035	108	63	9900	-0.001	46	.	20	5310	0.9	0.35
75	DU029	34.9122	78.0371	6.9	95	0.066	128	59	11200	-0.001	93	.	.	5260	-0.1	0.69
77	DU031	34.9387	78.0473	6.7	95	0.080	140	93	13800	-0.001	132	.	.	6180	0.9	0.84
78	DU032	34.8384	78.1246	6.4	50	0.077	149	41	10900	-0.001	37	.	18	4360	-0.1	1.54
79	DU033	34.8132	78.1516	6.0	40	0.049	225	47	10500	-0.001	35	.	.	5180	-0.1	1.23
80	DU034	34.8183	78.0841	5.7	80	0.071	279	16	11600	-0.001	19	1210	29	5500	1.3	0.89
81	DU035	34.7964	78.0406	6.0	90	0.187	1131	.	13400	-0.001	42	.	18	5370	2.8	2.08
82	DU036	34.7860	78.0733	6.2	83	0.105	287	74	11900	-0.001	57	.	25	5020	0.7	1.27
83	DU037	34.7670	78.0539	7.2	162	0.359	151	99	11600	-0.001	85	1310	43	6080	0.6	2.22
84	DU038	34.7782	78.1301	5.6	60	0.058	127	56	13200	-0.001	46	1390	23	4560	-0.1	0.97
85	DU039	34.7443	78.1874	6.7	50	0.034	61	74	10600	-0.001	195	.	.	4520	1.0	0.68
86	DU040	34.7304	78.1483	6.8	172	0.060	63	36	10900	-0.001	18	.	123	5580	-0.1	0.35
87	DU041	34.7237	78.1118	6.7	152	0.018	124	44	11500	-0.001	61	2140	90	5940	0.8	0.12

ELIZABETHTON 100K QUADRANGLE STREAM WATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Al ppb	Br ppb	Cl ppb	Dy ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000
88	DU042	34.7327	78.0145	7.0	160	0.100	74	47	16300	-0.001	132	2900	.	6320	0.4	0.63
99	DU053	34.8657	78.0129	7.5	325	0.141	60	37	14300	-0.001	108	1310	36	8700	0.9	0.43
160	SA001	34.9847	78.1599	7.6	170	0.124	203	.	15900	-0.001	119	2480	44	6140	1.8	0.73
162	SA003	34.9607	78.1963	6.3	83	0.046	204	45	10300	-0.001	21	.	28	4390	0.9	0.55
163	SA004	34.9529	78.2288	6.1	70	0.042	174	52	8600	-0.001	54	.	20	3930	0.6	0.60
164	SA005	34.9549	78.2690	5.4	80	0.065	501	54	11900	-0.001	20	.	33	5120	1.5	0.81
165	SA006	34.9027	78.2516	5.8	65	0.085	249	26	12300	-0.001	.	1610	29	4140	1.5	1.31
166	SA007	34.8375	78.2322	6.0	30	0.030	172	51	9300	-0.001	20	.	6	3050	0.3	1.00
167	SA008	34.8279	78.2604	5.7	22	0.032	174	.	9800	-0.001	33	.	7	3780	0.4	1.45
168	SA009	34.8873	78.2976	4.7	38	0.022	351	60	9500	-0.001	44	.	23	4460	0.7	0.58
169	SA010	34.8255	78.3860	5.5	53	0.019	204	41	9700	-0.001	54	1220	46	5020	0.3	0.36
170	SA011	34.7974	78.3693	7.2	257	0.015	121	30	19200	-0.001	60	.	.	21470	-0.1	0.06
171	SA012	34.8494	78.4390	6.2	78	0.039	220	74	12700	-0.001	.	1470	36	2930	-0.1	0.50
172	SA013	34.8760	78.4462	4.1	67	0.051	341	.	10500	-0.001	.	.	8	2890	1.3	0.76
173	SA014	34.9018	78.4324	4.2	58	0.021	366	21	10100	-0.001	31	.	16	2690	1.0	0.36
174	SA015	34.9281	78.4505	4.4	39	0.030	253	.	9500	-0.001	.	1080	13	1740	-0.1	0.77
175	SA016	34.9004	78.5269	4.3	28	0.024	194	32	5700	-0.001	33	.	.	680	0.4	0.86
176	SA017	34.9988	78.2070	6.1	68	0.068	261	60	12700	-0.001	62	4530	.	5200	1.2	1.00
203	SA044	34.9947	78.5002	6.6	46	0.028	116	43	10700	-0.001	.	.	115	7880	-0.1	0.61
204	SA045	34.9699	78.3872	6.1	162	0.053	106	89	11700	-0.001	31	3710	122	8710	-0.1	0.33
205	SA046	34.9222	78.3921	6.2	43	0.042	245	43	11000	-0.001	73	.	107	8520	0.4	0.98
212	SA053	34.9581	78.4347	6.6	81	0.162	291	52	12300	-0.001	67	1670	142	11260	4.2	2.00
226	SA067	34.7572	78.3679	5.5	51	0.033	273	60	10000	-0.001	32	2470	34	2970	0.4	0.65
227	SA068	34.7058	78.3409	4.0	52	0.039	268	55	7600	-0.001	.	.	28	1980	-0.1	0.75
228	SA069	34.7109	78.2799	4.5	48	0.057	382	37	9500	-0.001	.	.	41	3290	0.8	1.19
229	SA070	34.6713	78.2624	4.2	40	0.040	286	43	8900	0.030	.	.	26	3320	1.1	1.00
230	SA071	34.6817	78.2255	6.3	48	0.086	245	67	10400	-0.001	51	.	38	3660	1.4	1.79
231	SA072	34.6643	78.2070	5.9	45	0.094	440	504	9800	-0.001	.	.	40	3450	2.3	2.09
232	SA073	34.7009	78.1468	5.8	40	0.084	357	.	8400	-0.001	.	2220	64	3710	1.5	2.10
233	SA074	34.7145	78.1795	7.3	251	0.163	241	14	11800	-0.001	83	.	88	6110	0.4	0.65
234	SA075	34.7171	78.2554	6.8	59	0.048	226	27	9600	0.120	66	1550	82	5500	0.4	0.81
235	SA076	34.7588	78.2847	4.6	36	0.034	192	41	7800	-0.001	22	.	12	3060	0.3	0.94
236	SA077	34.7692	78.3302	5.3	67	0.034	287	71	13200	-0.001	46	.	22	5170	1.1	0.51
239	SA080	34.9815	78.3576	6.4	58	0.034	183	53	13200	-0.001	61	.	32	6700	1.1	0.59

ELIZABETHTON 100K QUADRANGLE STREAM WATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Al ppb	Br ppb	Cl ppb	Dy ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000
240	SA081	34.8245	78.2914	4.4	50	0.015	334	37	9500	-0.001	32	.	27	4030	1.0	0.30
241	SA082	34.8709	78.2028	5.5	31	0.113	799	.	6900	-0.001	.	.	35	3140	1.5	3.65