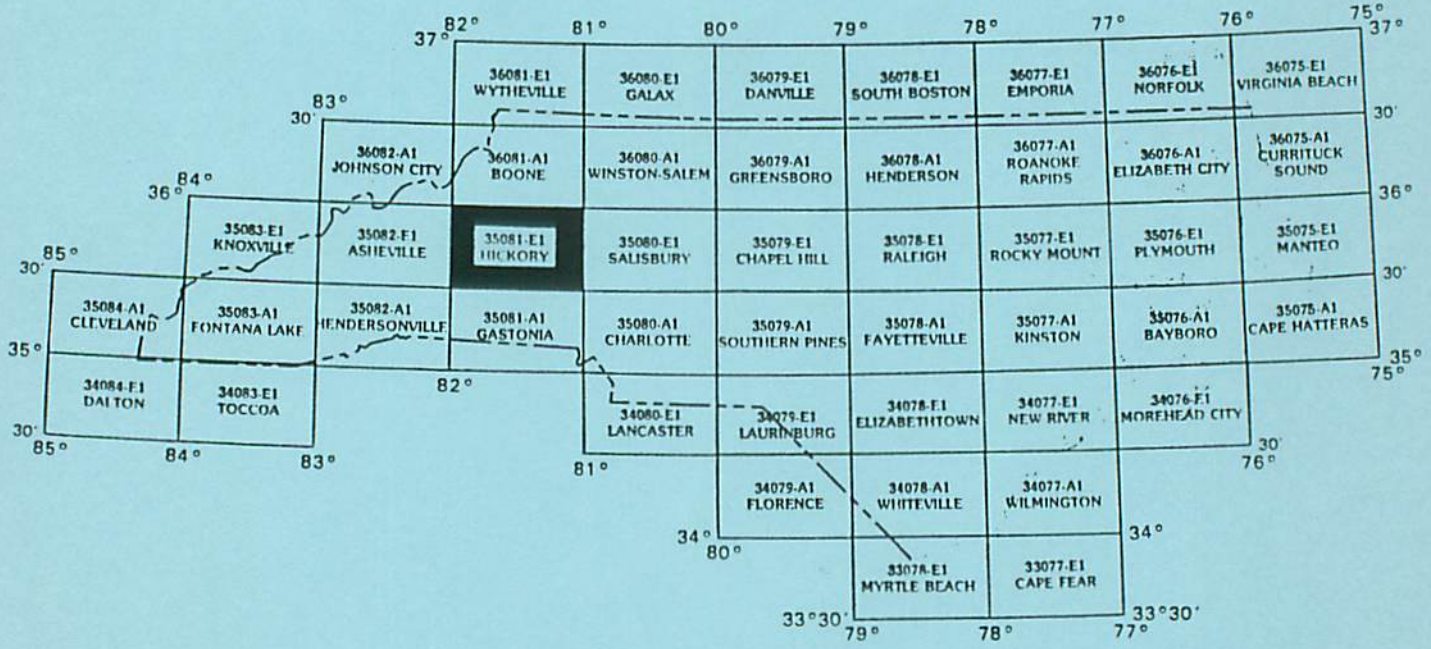
Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Hickory 30 x 60 - Minute Quadrangle -NURE Database

by
Robert H. Carpenter and Jeffrey C. Reid



NORTH CAROLINA GEOLOGICAL SURVEY
OPEN-FILE REPORT 93-10

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.

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Jeffrey C. Reid
Chief Geologist

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INTRODUCTION

This report is a compilation of geochemical data for stream sediment and groundwater for the Hickory 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
AE	Alexander
AV	Avery
BK	Burke
CL	Caldwell
CT	Catawba
CV	Cleveland
IR	Iredell
LI	Lincoln
MC	McDowell
RU	Rutherford

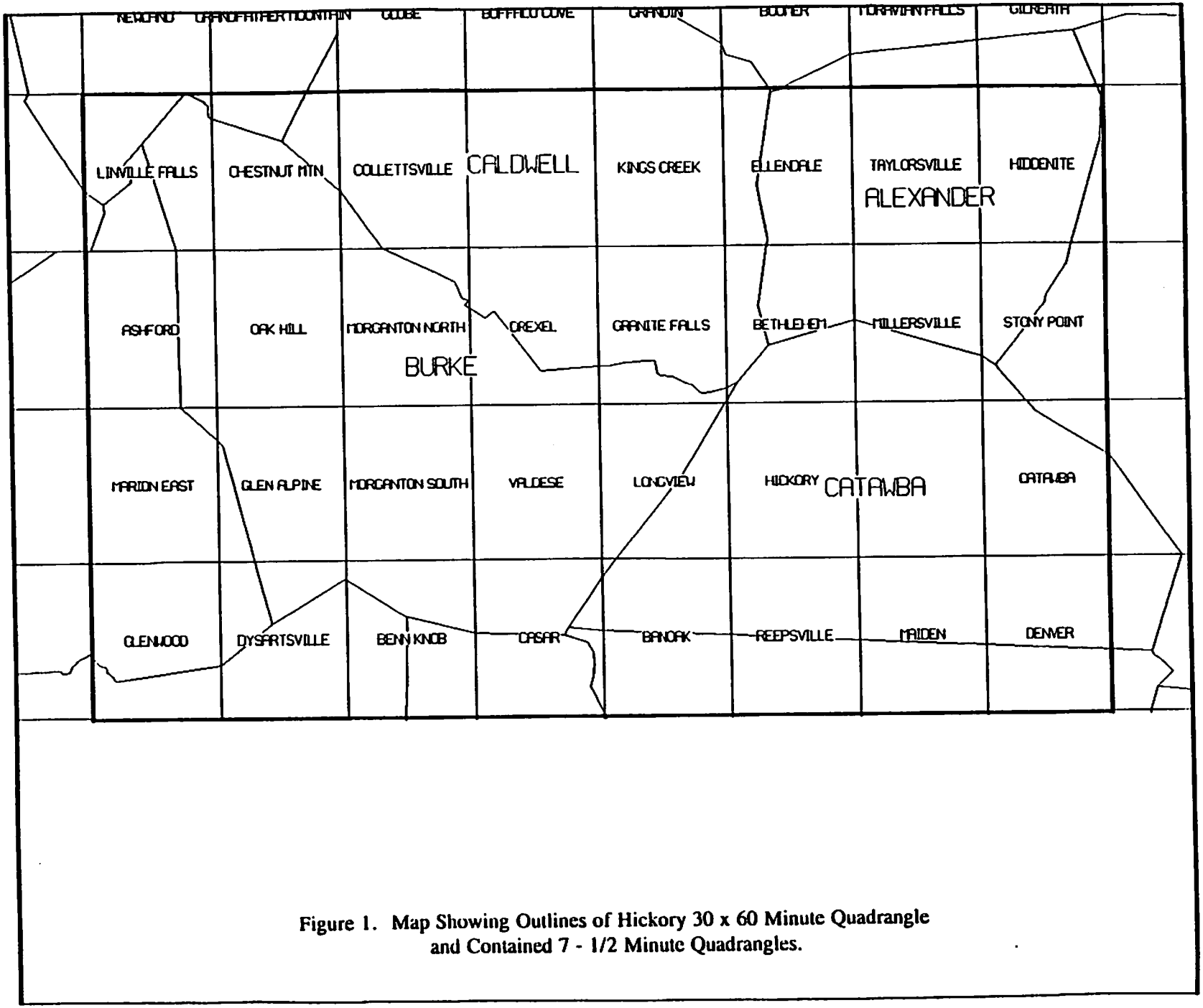

Figure 1. Map Showing Outlines of Hickory 30 x 60 Minute Quadrangle and Contained 7 - 1/2 Minute Quadrangles.

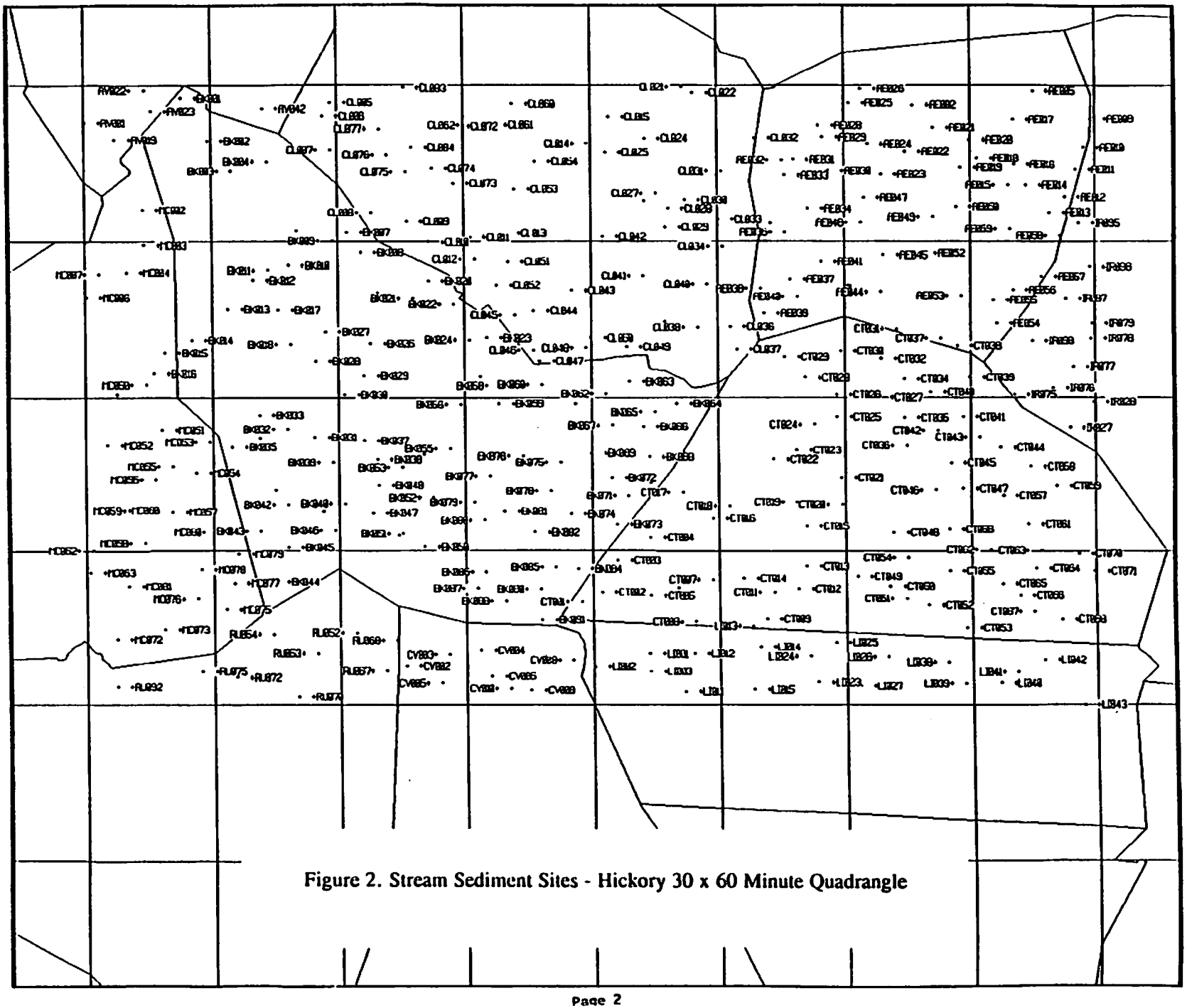

Figure 2. Stream Sediment Sites - Hickory 30 x 60 Minute Quadrangle

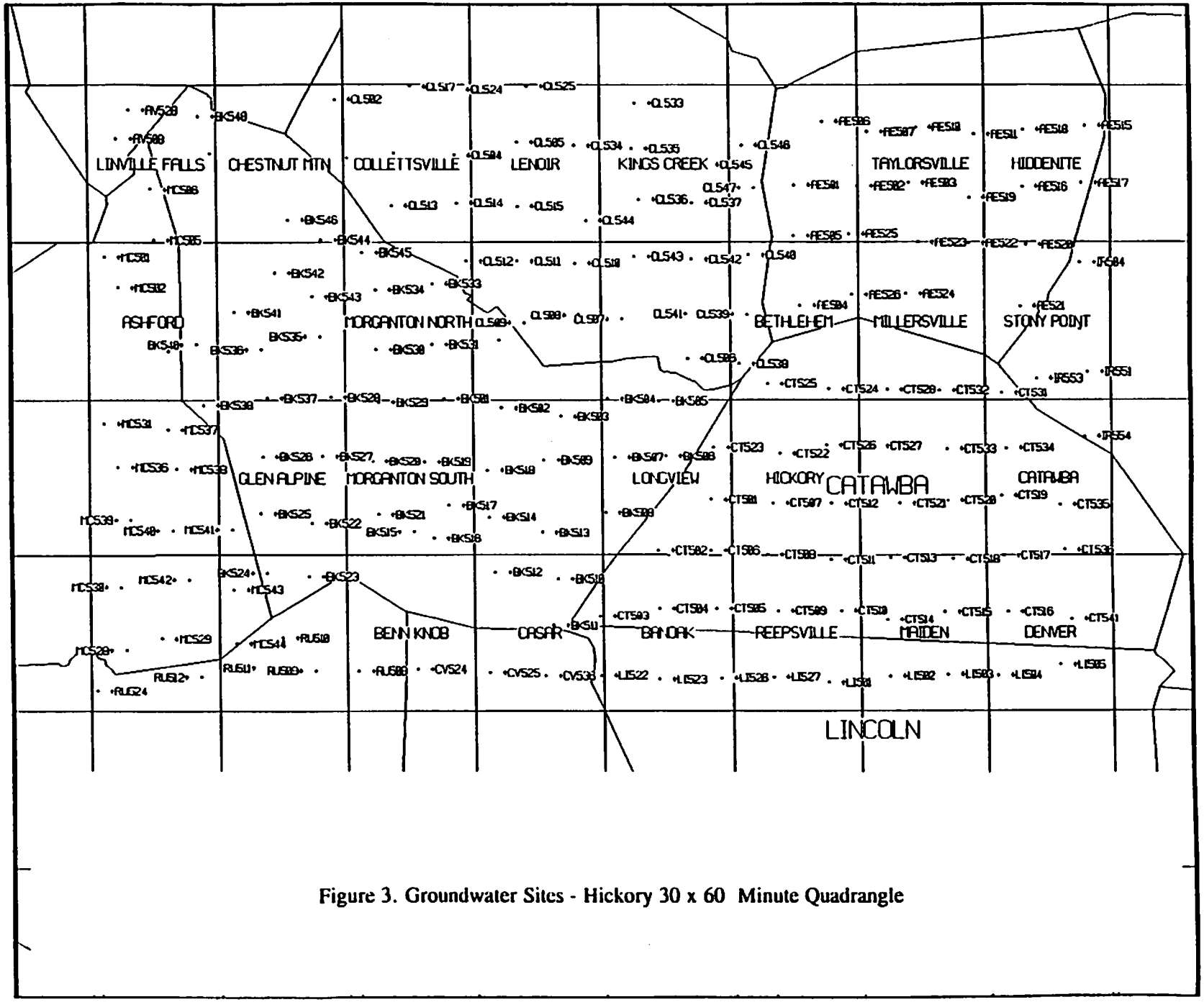

Figure 3. Groundwater Sites - Hickory 30 x 60 Minute Quadrangle

HICKORY 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
2	AE002	35.9845	81.1815	8.2	38	13.4	63	35	32500	194	16900	520	4200	4.8	6700	40	5.9	0.6	M	M	M	M	
5	AE005	35.9958	81.0626	7.8	38	35.4	174	81	72000	808	29200	850	10200	9.7	7600	100	15.3	3.6	M	M	M	M	
9	AE009	35.9734	81.0042	7.8	28	12.9	93	20	44100	394	26500	490	3900	4.3	7000	50	7.3	0.8	M	M	M	M	
10	AE010	35.9507	81.0115	7.7	37	44.5	201	62	49200	870	19000	710	3700	4.7	11900	80	22.5	5.6	M	M	M	M	
11	AE011	35.9332	81.0196	7.8	28	14.4	74	37	35100	357	19300	510	2900	2.3	13500	50	4.1	2.3	M	M	M	M	
12	AE012	35.9109	81.0307	7.8	30	86.5	463	110	60400	2091	27200	810	2900	5.8	29800	80	22.5	1.5	M	M	M	M	
13	AE013	35.8987	81.0457	7.7	30	34.5	273	101	56400	1236	35700	940	2700	3.8	23000	100	14.8	3.7	M	M	M	M	
14	AE014	35.9207	81.0694	7.7	38	21.0	125	38	57500	408	24600	550	8600	5.3	5100	50	5.8	1.7	M	M	M	M	
15	AE015	35.9204	81.0878	7.8	35	43.4	296	59	58000	1260	28800	980	8300	7.3	10200	100	23.4	2.3	M	M	M	M	
16	AE016	35.9369	81.0817	7.7	29	20.0	101	22	61600	284	9400	370	10800	3.6	3600	20	10.6	2.2	M	M	M	M	
17	AE017	35.9731	81.0826	7.6	37	13.2	74	32	55900	312	33000	980	9100	9.4	5100	100	5.7	2.5	M	M	M	M	
18	AE018	35.9418	81.1186	7.5	39	33.0	202	77	58300	667	27100	430	25500	9.2	7700	80	27.9	-1.0	271	135	25.0	3.2	0.253
19	AE019	35.9346	81.1349	7.4	61	5.7	24	20	57000	152	23700	120	M	11.7	2700	90	5.7	3.1	68	25	3.6	1.1	
20	AE020	35.9566	81.1261	7.6	42	2.5	4	8	63000	35	17000	280	10300	8.5	M	90	3.2	3.4	M	M	7.8	0.7	
21	AE021	35.9663	81.1620	7.8	35	28.1	216	39	69200	1007	54200	240	M	7.7	4000	120	28.6	9.4	334	228	21.8	3.5	0.550
22	AE022	35.9469	81.1895	7.4	42	30.4	141	47	62900	498	33400	400	M	6.5	3300	90	20.2	3.6	140	102	12.7	1.4	
23	AE023	35.9291	81.2130	7.4	41	5.8	20	9	74200	105	33300	M	M	6.0	M	70	1.9	4.0	72	28	5.6	1.0	
24	AE024	35.9533	81.2262	7.4	40	13.8	69	50	24700	230	9600	180	M	2.1	3700	10	5.3	-1.0	92	38	4.5	-0.2	
25	AE025	35.9864	81.2445	7.8	30	18.5	171	76	34000	778	24500	460	M	3.2	4500	30	11.5	3.5	281	168	12.7	1.8	0.482
26	AE026	35.9977	81.2329	7.6	32	8.7	47	32	34600	238	8600	60	M	4.9	2900	10	4.8	-1.0	78	34	3.3	0.5	
28	AE028	35.9682	81.2751	7.8	30	28.2	203	104	33200	906	17300	510	7100	4.4	7500	M	17.1	-1.4	359	182	12.5	1.2	
29	AE029	35.9588	81.2707	7.6	30	26.2	174	125	42800	787	36900	680	M	6.1	11100	40	14.1	-1.0	331	205	10.5	1.2	0.459
30	AE030	35.9316	81.2655	7.2	53	49.7	277	40	41500	1054	8100	160	M	2.6	4600	20	23.2	2.8	411	149	M	1.1	
31	AE031	35.9407	81.2999	7.7	30	9.4	65	23	70000	283	39800	250	M	6.0	5500	100	4.3	5.4	130	72	4.5	0.6	
32	AE032	35.9405	81.3111	7.6	30	57.5	347	169	46400	1440	36200	690	13800	6.0	17600	70	26.5	6.3	588	278	16.9	1.6	
33	AE033	35.9281	81.3084	7.6	32	49.6	351	147	40400	1641	35200	1040	6400	6.3	20400	60	27.1	5.1	589	389	27.0	2.1	
34	AE034	35.9016	81.2857	7.6	30	51.4	203	26	66200	806	21400	290	9700	4.4	2600	M	17.9	2.9	337	165	8.3	0.8	
35	AE035	35.8899	81.3222	7.6	26	52.7	354	110	45000	1845	39500	450	M	4.8	19200	60	34.9	5.3	561	377	29.9	2.3	
36	AE036	35.8827	81.3083	7.7	27	58.5	332	114	40100	1363	27200	630	7100	3.8	8600	50	34.5	4.4	543	250	19.9	1.7	
37	AE037	35.8452	81.3034	7.3	30	50.8	202	23	67700	1006	26300	140	M	2.2	7400	40	25.5	5.2	365	242	23.0	2.5	
38	AE038	35.8378	81.3326	7.2	25	51.1	163	11	127300	855	22400	170	M	5.6	M	M	28.0	1.8	333	177	25.3	2.6	
39	AE039	35.8183	81.3294	7.2	26	51.2	205	11	96700	1198	46700	290	M	4.3	17000	M	38.5	2.9	385	291	28.4	3.7	
40	AE040	35.8313	81.2964	7.2	24	58.9	221	20	80000	1155	32200	290	5600	5.5	12000	80	38.3	4.0	448	237	15.6	1.4	
41	AE041	35.8594	81.2730	7.3	32	10.1	33	32	61600	139	12800	310	2600	4.7	2400	80	M	1.0	M	M	M	M	

HICKORY 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
42	AE042	35.8403	81.2465	7.5	28	32.0	162	47	48200	829	28700	430	2600	5.9	M	80	11.8	3.2	M	M	M	M	
43	AE043	35.8400	81.2443	7.3	33	8.9	44	32	37800	173	14300	300	2200	3.7	3900	50	M	0.7	M	M	M	M	
44	AE044	35.8351	81.2135	7.3	25	20.8	157	76	M	700	23200	M	M	4.6	M	M	M	1.7	M	M	M	M	
45	AE045	35.8644	81.2112	7.5	38	15.4	66	51	M	291	19800	M	M	4.4	M	M	M	0.9	M	M	M	M	
46	AE046	35.8903	81.2332	7.6	20	25.0	121	42	49200	567	24000	120	2100	5.6	M	70	5.4	4.2	M	M	M	M	
47	AE047	35.9106	81.2304	7.2	30	30.5	132	73	42000	612	22900	1020	2500	3.8	17500	M	2.6	1.3	M	M	M	M	
48	AE048	35.8957	81.1840	7.3	85	37.4	302	54	36800	1286	19600	390	2600	4.0	5600	40	20.2	1.0	M	M	M	M	
49	AE049	35.8950	81.1625	7.4	35	10.1	28	53	23400	180	6500	140	1800	2.7	3300	30	6.2	0.9	M	M	M	M	
50	AE050	35.9032	81.1396	7.3	30	6.0	33	61	35700	152	11800	220	2900	3.9	2500	30	7.0	1.9	M	M	M	M	
51	AE051	35.8860	81.1127	6.9	18	23.2	134	69	42800	657	15600	380	1800	2.3	15600	80	M	0.6	M	M	M	M	
52	AE052	35.8659	81.1741	8.1	29	12.0	66	60	38700	291	18800	310	1600	4.3	7100	60	10.0	1.7	M	M	M	M	
53	AE053	35.8320	81.1344	7.7	32	5.3	33	26	45200	157	19400	350	2400	4.2	2500	70	M	0.6	M	M	M	M	
54	AE054	35.8102	81.0993	7.4	47	8.6	87	84	36000	380	30200	710	3700	6.0	14600	80	6.7	2.5	M	M	M	M	
55	AE055	35.8288	81.1025	7.3	35	2.9	11	14	45200	84	18400	260	2500	3.6	2100	60	M	1.0	M	M	M	M	
56	AE056	35.8367	81.0832	7.2	48	11.7	133	78	37100	551	34400	760	2400	5.9	15000	80	4.5	-1.0	M	M	M	M	
57	AE057	35.8472	81.0538	7.5	117	3.8	26	23	37800	74	22200	460	3900	5.0	3800	70	M	4.0	M	M	M	M	
58	AE058	35.8801	81.0353	7.5	66	10.7	116	93	29900	740	31700	660	2900	6.6	9600	60	5.7	3.5	M	M	M	M	
59	AE059	35.8854	81.0864	7.4	275	27.5	169	95	40800	755	22500	650	2300	3.0	20100	70	6.3	2.1	M	M	M	M	
326	AV001	35.9703	81.9989	7.3	30	4.9	17	52	41900	170	47800	470	M	12.6	M	M	5.4	1.5	M	M	M	M	
344	AV019	35.9561	81.9696	7.4	24	2.9	11	17	43600	147	37500	520	17500	11.2	M	M	4.2	2.2	M	M	M	M	
347	AV022	35.9960	81.9403	7.4	31	2.7	13	57	37000	184	40200	360	14900	8.0	M	M	3.2	3.0	M	M	M	M	
348	AV023	35.9795	81.9338	7.7	18	3.6	-1	33	23200	80	22900	1020	M	3.3	8500	M	3.5	2.0	M	M	M	M	
367	AV042	35.9814	81.8235	7.1	10	7.6	49	22	30900	224	12800	230	7900	2.5	3600	20	2.1	1.0	M	M	M	0.9	
435	BK001	35.9899	81.9041	7.1	20	5.7	14	71	41100	63	20000	230	8300	5.3	3800	40	2.5	-1.0	38	4	5.4	0.8	
436	BK002	35.9556	81.8781	7.2	17	3.0	5	23	37300	26	9300	180	5000	2.9	2300	20	3.0	2.0	16	4	2.0	M	
437	BK003	35.9318	81.8547	6.9	10	2.1	5	24	11000	-20	-5000	50	2100	0.8	1000	10	1.4	-1.0	22	3	1.5	-0.2	
438	BK004	35.9393	81.8194	7.2	21	8.1	18	17	32300	118	12200	170	5500	4.0	1400	30	6.9	-1.0	50	12	3.0	M	0.133
439	BK005	35.8838	81.7909	7.3	20	10.2	55	60	38800	263	24000	350	9500	7.5	4200	40	6.9	-1.0	139	22	8.1	0.9	
440	BK006	35.8764	81.7944	7.3	13	6.7	M	25	40900	M	M	200	7900	4.7	3500	30	3.7	M	M	M	M	M	
441	BK007	35.8827	81.7411	7.4	26	4.8	7	51	45900	30	31500	520	1600	6.0	10000	50	5.5	-1.0	31	8	4.6	0.5	1.541
442	BK008	35.8666	81.7276	7.7	27	22.5	66	360	41500	270	25800	640	9600	10.8	10300	60	23.6	-1.0	131	31	15.9	2.4	
443	BK009	35.8758	81.7557	7.3	31	7.1	26	48	56100	41	29200	440	13400	9.2	5900	50	9.7	0.9	30	5	9.6	1.7	
444	BK010	35.8563	81.7989	7.4	19	6.6	11	41	36300	47	12800	220	6900	2.7	2700	30	5.9	0.9	21	7	2.6	0.9	
445	BK011	35.8523	81.8191	7.4	9	13.2	59	56	25300	256	15000	140	5500	3.9	2100	20	11.9	1.7	168	28	8.7	1.6	

HICKORY 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
446	BK012	35.8444	81.8339	7.2	18	8.0	30	31	29500	175	21000	220	6000	6.5	2500	30	6.6	-1.0	84	19	3.7	0.6	
447	BK013	35.8214	81.8590	7.3	10	2.3	10	31	14500	48	13700	130	900	2.9	3800	20	2.3	-1.0	21	3	1.9	-0.2	
448	BK014	35.7968	81.8954	7.1	22	3.9	10	33	22300	85	15600	190	4600	7.0	3300	30	5.7	1.3	40	7	2.8	0.3	
449	BK015	35.7867	81.9218	6.7	7	2.6	5	44	14400	-20	8300	60	1100	1.5	2900	10	6.7	-1.0	23	4	5.0	1.0	
450	BK016	35.7700	81.9325	7.3	22	3.0	6	32	26800	43	13000	330	3500	3.5	4700	40	3.3	3.7	22	6	3.0	0.4	
451	BK017	35.8208	81.8092	7.2	23	5.8	15	67	24900	65	7800	290	3800	8.1	5300	30	4.3	-1.0	50	8	6.0	-0.2	
452	BK018	35.7936	81.7973	7.5	35	11.6	24	190	26600	183	11500	570	2200	8.1	10200	50	16.8	3.3	68	15	9.9	1.7	
453	BK019	35.8340	81.7110	7.7	29	25.1	87	324	42800	430	24400	680	11500	9.6	10000	70	27.3	-1.0	242	37	17.4	2.5	
454	BK020	35.8440	81.6605	7.2	26	24.4	98	47	17900	507	15300	480	2600	3.9	6400	80	72.8	3.1	276	69	31.8	4.2	
455	BK021	35.8300	81.6758	7.4	35	5.0	14	22	36600	87	14400	400	5000	6.5	3400	30	14.8	-1.0	49	M	10.0	1.2	
456	BK022	35.8253	81.6355	7.2	80	4.4	8	13	84700	80	23100	490	5800	8.3	7200	100	4.3	-1.0	36	7	2.8	0.4	
457	BK023	35.7986	81.6032	7.5	25	12.1	93	52	50000	403	26200	790	5000	7.4	10900	80	7.6	3.5	203	39	4.5	0.5	
458	BK024	35.7971	81.6205	7.3	22	10.0	54	31	27400	237	13600	400	2200	2.7	5700	40	12.5	1.3	111	28	3.6	0.7	
459	BK026	35.7942	81.7185	7.5	34	12.5	94	42	34900	455	75500	1470	4400	18.1	19100	170	34.6	3.7	273	48	22.4	2.7	
460	BK027	35.8036	81.7629	7.4	29	6.7	24	55	47700	101	23500	780	6500	6.9	6800	100	5.7	2.0	51	11	8.4	1.3	
461	BK028	35.7802	81.7725	7.3	38	7.5	20	94	27400	94	22800	500	2500	8.1	7100	40	11.4	3.7	75	14	7.3	1.1	
462	BK029	35.7684	81.7247	7.4	38	11.3	27	131	27500	143	25100	640	2900	10.9	8700	80	9.8	1.5	60	13	6.7	1.3	
463	BK030	35.7528	81.7447	7.5	65	4.6	12	17	54600	50	30500	290	1700	10.9	4200	70	3.7	-1.0	35	6	5.1	0.6	
464	BK031	35.7184	81.7741	7.4	31	18.7	109	33	42100	535	11800	510	6100	7.6	3600	50	72.3	2.9	303	75	23.4	4.2	
465	BK032	35.7252	81.8005	7.2	51	18.9	99	27	58700	560	33700	510	9100	9.3	2600	60	55.2	10.9	299	66	25.5	4.4	
466	BK033	35.7366	81.8285	7.3	41	9.7	26	98	19200	180	14100	340	3300	4.3	3400	30	12.1	-1.0	74	16	7.5	1.6	
467	BK034	35.7180	81.8285	7.1	28	6.2	32	18	35900	141	26200	290	4100	7.4	2900	50	14.6	-1.0	84	19	6.1	1.1	
468	BK035	35.7106	81.8555	7.3	169	3.3	8	24	40300	68	18100	640	5700	10.3	6800	60	8.1	1.1	32	6	2.6	0.4	
469	BK036	35.6750	81.8126	7.4	35	5.6	28	26	46600	184	37300	480	5500	14.2	3200	80	6.4	1.3	76	17	6.5	0.6	
470	BK037	35.7156	81.7251	7.4	41	15.3	23	204	43600	102	40400	1320	3900	11.7	19100	160	5.1	-1.0	28	9	7.9	1.3	
471	BK038	35.7002	81.7122	7.1	149	8.2	48	72	68000	185	44300	850	4100	14.1	7100	100	13.7	-1.0	121	23	8.1	1.6	
472	BK039	35.6976	81.7563	7.5	41	3.9	18	24	43200	66	18600	790	2500	8.3	3300	60	2.2	-1.0	36	8	M	-0.2	
473	BK040	35.6642	81.7449	7.1	43	24.6	136	153	42200	660	38400	620	4200	18.5	6600	70	29.0	18.0	351	70	13.9	2.2	
474	BK041	35.6581	81.7657	7.4	51	7.7	21	53	77800	116	24700	710	5400	8.5	6100	120	8.3	-1.0	49	12	M	-0.2	0.088
475	BK042	35.6634	81.8005	7.2	29	4.8	9	23	73400	64	28400	230	2500	6.2	4600	60	M	-1.7	10	2	4.4	-0.2	
476	BK043	35.6413	81.8278	7.1	43	15.0	64	109	76700	312	28300	1150	5600	12.4	9200	130	13.3	3.3	147	35	9.4	1.5	
477	BK044	35.6001	81.8146	7.2	40	8.3	49	52	66100	220	39400	920	6300	15.6	6000	120	3.1	3.5	118	22	6.2	-0.2	
478	BK045	35.6280	81.8005	7.3	31	21.1	114	73	67400	601	39200	1070	8000	17.4	6300	110	20.8	4.0	302	73	9.0	1.2	
479	BK046	35.6422	81.7543	7.3	41	9.1	36	26	107000	213	57200	1670	16900	19.6	2400	170	6.6	2.0	112	19	7.0	0.7	0.132

HICKORY 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
480	BK047	35.6568	81.7169	7.2	22	16.0	59	61	53100	363	21900	960	4000	9.7	7300	100	14.9	1.8	168	41	9.8	1.2	0.076
481	BK048	35.6791	81.7108	7.3	37	24.9	133	178	59600	615	42200	1180	8200	25.2	12900	110	16.8	3.7	317	54	12.5	2.3	
482	BK049	35.6378	81.6919	7.1	20	7.2	34	33	78900	197	30900	700	6500	8.5	7700	90	6.5	-1.0	82	18	3.8	0.4	
483	BK050	35.6284	81.6658	7.4	19	9.1	41	47	67200	215	32000	500	6200	8.4	4900	80	9.1	1.5	112	17	3.9	0.8	
484	BK051	35.6394	81.6873	7.2	21	12.6	85	59	75300	246	30600	710	5800	6.1	8900	80	5.7	-1.0	158	32	5.0	0.6	
485	BK052	35.6689	81.6568	7.1	24	20.5	140	68	38100	560	32900	630	4000	13.8	9600	70	17.7	7.2	331	63	9.1	1.4	
486	BK053	35.6936	81.6873	7.3	50	6.4	12	75	49200	88	18400	670	5000	13.1	4200	100	5.8	-1.0	42	14	4.5	0.8	
487	BK054	35.7045	81.6664	7.2	42	6.2	12	73	56100	-20	35100	740	9500	18.5	5900	120	5.1	-1.0	27	6	9.1	0.6	
488	BK055	35.7092	81.6403	7.3	39	29.4	187	209	49900	670	32000	1020	5300	17.3	7600	90	20.7	-1.7	365	82	11.6	1.3	
489	BK056	35.7449	81.6295	7.1	24	11.3	77	77	55200	258	52700	1380	5600	17.1	22000	90	5.8	2.6	130	23	6.9	1.3	
490	BK057	35.7676	81.6093	7.3	33	25.1	204	149	55400	774	43200	2540	4300	8.8	40300	100	19.9	5.5	367	77	14.2	1.8	
491	BK058	35.7600	81.5895	7.1	47	18.1	125	51	35100	552	27600	320	1300	6.5	5900	50	22.9	5.9	296	57	10.6	1.7	
492	BK059	35.7456	81.5915	7.1	27	26.0	143	62	46800	594	28400	750	2100	5.1	14600	60	35.7	2.0	305	68	15.0	1.5	
493	BK060	35.7612	81.5492	6.6	148	117.5	468	74	81900	2093	34100	770	2300	12.3	20000	140	127.2	11.8	1194	170	81.9	11.7	
494	BK061	35.7456	81.5164	7.0	32	21.1	80	34	44400	353	22100	310	3700	9.3	4100	50	17.7	-1.0	170	35	7.7	0.7	
495	BK062	35.7537	81.4859	6.1	20	66.4	267	35	72900	-20	27700	250	1600	12.0	10000	70	34.8	5.9	685	M	34.5	4.9	
496	BK063	35.7634	81.4623	7.3	20	26.1	94	13	69500	520	11800	270	1800	3.5	4900	80	14.4	-1.2	247	51	6.4	0.7	
497	BK064	35.7457	81.4156	7.0	63	30.3	131	51	69400	528	18300	360	1900	7.5	7700	90	35.0	-1.0	345	62	12.5	1.6	
498	BK065	35.7388	81.4373	7.5	81	41.8	180	32	69100	821	16500	490	2800	8.0	10200	70	30.6	-1.0	432	94	15.0	1.6	
499	BK066	35.7269	81.4486	7.0	255	21.7	115	39	89900	541	35200	520	2500	8.6	8400	70	8.6	-1.0	281	54	7.5	1.3	0.106
500	BK067	35.7280	81.4798	7.6	28	56.3	227	36	70300	1057	21800	400	2500	8.9	8200	70	31.4	1.1	543	118	23.5	2.9	0.062
501	BK068	35.7021	81.4431	6.3	21	92.3	541	79	62800	2439	35400	630	M	11.1	5300	M	72.6	M	1265	256	39.9	5.0	
502	BK069	35.7054	81.5007	6.9	17	14.1	43	29	64200	204	20400	M	11000	8.8	M	30	7.8	1.3	109	26	3.3	0.9	
503	BK070	35.6811	81.4418	7.1	36	7.8	41	32	38700	192	23000	230	2600	7.8	6800	60	13.5	-1.0	105	17	4.8	1.1	
504	BK071	35.6707	81.4637	6.8	22	36.9	201	55	76500	857	15500	270	M	3.9	6500	90	35.0	M	486	95	15.6	2.5	
505	BK072	35.6854	81.4803	6.8	21	12.3	48	37	45200	183	20600	200	2500	5.8	1900	50	13.1	-1.0	117	16	5.6	0.9	0.125
506	BK073	35.6469	81.4752	6.9	21	9.7	62	35	40600	268	19600	170	2200	4.3	3500	50	12.8	-1.0	138	26	3.1	0.2	
507	BK074	35.6557	81.5215	6.9	32	20.3	140	46	54100	587	18900	280	3100	6.8	5600	60	29.7	3.3	307	65	14.6	1.7	
508	BK075	35.6976	81.5310	7.1	30	14.2	40	30	65900	160	17700	330	4000	6.4	3500	70	14.9	1.3	88	14	5.6	0.9	
509	BK076	35.7029	81.5683	7.1	22	19.8	49	32	71400	222	34900	450	5800	9.8	4500	90	13.0	-1.0	136	24	10.4	1.0	
510	BK077	35.6866	81.6007	7.1	24	48.6	303	68	27000	1207	68200	490	1000	14.4	8600	40	23.7	10.3	662	72	45.1	4.1	
511	BK078	35.6745	81.5413	6.4	23	131.4	652	448	69900	2518	32400	970	2900	13.8	21700	110	183.4	8.1	201	206	91.1	8.3	
512	BK079	35.6654	81.6164	7.0	17	26.1	10	14	M	85	9500	M	M	8.3	M	M	33.9	-1.0	59	8	4.4	0.5	
513	BK080	35.6503	81.6066	7.0	20	21.5	70	23	89800	374	35900	670	4300	10.4	10200	120	24.7	-1.0	208	42	12.0	1.4	

HICKORY 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
514	BK081	35.6578	81.5867	6.6	17	50.2	223	38	96200	941	53900	1990	1600	10.4	37200	140	37.9	1.8	576	111	34.6	4.2	0.286
515	BK082	35.6403	81.5570	6.8	18	25.6	119	23	87400	450	22200	320	2200	5.8	2900	90	13.3	2.4	245	233	M	0.8	
516	BK084	35.6105	81.5151	6.9	25	53.8	306	47	44600	1152	17600	230	1800	5.3	5800	50	27.7	2.6	724	119	M	1.8	
517	BK085	35.6123	81.5365	7.1	30	7.5	38	26	M	144	12400	M	M	4.2	M	M	2.4	1.3	63	13	M	M	
518	BK086	35.6081	81.6052	7.0	20	28.3	133	32	22000	503	23700	80	1400	8.5	400	20	11.2	1.3	287	52	21.3	2.4	
519	BK087	35.5949	81.6136	6.7	21	26.6	96	24	78800	447	23700	740	5100	5.9	15200	100	24.4	2.8	279	199	12.1	2.1	
520	BK088	35.5842	81.5859	7.1	23	17.9	14	20	M	43	-5000	M	M	7.5	M	M	10.9	0.9	M	M	M	-0.3	
521	BK089	35.5916	81.5770	6.7	20	11.0	53	26	19600	249	27300	70	900	6.7	1400	20	6.3	-1.0	129	27	6.1	1.0	
522	BK090	35.5941	81.5519	7.0	25	37.5	200	35	16100	720	15400	60	800	4.0	800	10	14.7	1.8	444	103	13.4	0.5	
523	BK091	35.5689	81.5506	7.1	22	9.0	46	18	21000	217	9400	50	800	2.8	600	10	1.6	1.1	133	18	3.9	0.3	0.207
1173	CL005	35.9861	81.7566	7.6	15	15.9	81	99	24600	358	28100	130	6000	3.3	3800	20	8.8	0.7	M	M	M	M	
1174	CL006	35.9753	81.7646	7.6	11	12.1	69	39	29000	343	17100	110	M	2.0	2800	M	4.8	2.1	M	M	M	M	
1175	CL007	35.9483	81.7570	7.4	18	7.1	17	38	29100	105	27700	80	5500	5.1	2500	M	4.6	0.8	M	M	M	M	
1176	CL008	35.8986	81.7172	7.5	15	8.7	39	52	23800	227	28300	260	1300	3.0	3100	20	3.9	1.7	M	M	M	M	
1177	CL009	35.8914	81.6817	7.3	39	9.7	23	152	33200	61	33800	140	4600	9.0	4700	M	4.1	2.7	M	M	M	M	
1178	CL010	35.8749	81.6601	7.5	39	15.8	34	161	23600	240	45800	540	M	8.4	3000	30	12.1	2.5	M	M	M	M	
1179	CL011	35.8788	81.6188	7.5	41	14.4	41	140	16700	233	37500	370	400	7.2	19800	10	14.7	1.6	M	M	M	M	
1180	CL012	35.8614	81.6149	7.3	40	7.1	4	56	39900	-20	27000	190	700	11.8	14600	40	11.0	0.4	M	M	M	M	
1181	CL013	35.8820	81.5849	7.5	44	13.7	41	115	27800	244	36600	400	700	6.7	6900	M	17.6	6.3	M	M	M	M	
1182	CL014	35.9533	81.5038	6.9	42	3.6	10	23	16800	34	15600	80	M	6.4	1700	10	4.9	0.7	M	M	M	M	
1183	CL015	35.9748	81.4820	7.2	33	6.4	14	19	28100	83	13100	60	1700	5.1	1600	M	6.1	1.6	M	M	M	M	
1189	CL021	35.9988	81.4091	7.4	42	4.4	6	32	37500	27	24300	190	1600	8.4	900	20	M	-1.0	23	21	M	0.9	
1190	CL022	35.9944	81.3986	7.5	33	20.9	81	69	25700	437	23900	220	M	9.1	1700	20	9.1	1.7	174	79	15.1	1.7	
1192	CL024	35.9579	81.4464	7.4	41	14.4	48	54	29100	207	28800	160	M	13.9	M	50	6.8	2.4	99	43	10.5	0.9	
1193	CL025	35.9465	81.4854	7.6	50	5.0	12	45	38500	58	45900	490	11100	14.2	2900	60	0.6	2.7	39	20	4.7	1.4	
1194	CL026	35.9080	81.4467	7.6	32	31.3	175	39	27200	889	23900	210	M	9.1	2100	30	11.6	3.7	322	172	14.0	1.6	
1195	CL027	35.9139	81.4353	7.6	35	14.0	103	29	20500	498	27400	160	M	3.1	3100	10	6.5	1.6	170	119	15.3	1.4	
1196	CL028	35.9015	81.4234	7.6	30	22.0	127	26	35600	615	22200	230	M	4.7	3800	10	8.8	3.5	220	135	10.4	0.8	
1197	CL029	35.8868	81.4262	7.6	25	12.9	66	36	35700	368	30100	80	M	5.2	2800	20	3.7	2.3	120	88	M	1.4	
1198	CL030	35.9086	81.4071	7.6	28	26.2	140	41	34800	741	17100	100	M	3.9	1600	30	7.2	1.9	246	131	10.4	1.0	
1199	CL031	35.9315	81.3708	7.5	25	28.7	209	50	31600	1058	38600	220	1700	3.8	6000	40	11.1	17.5	370	240	19.0	2.1	
1200	CL032	35.9585	81.3378	7.7	26	16.5	107	24	35400	457	23900	180	M	3.8	1200	M	4.7	1.3	172	100	8.7	-0.2	
1201	CL033	35.8930	81.3743	7.0	22	56.4	216	32	65500	1388	28500	160	M	5.1	4000	M	17.2	2.0	514	290	33.7	4.7	
1202	CL034	35.8715	81.3697	7.2	20	60.2	334	30	33200	1396	18800	220	M	2.6	2500	20	15.1	1.7	503	260	23.1	1.6	

HICKORY 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
1203	CL035	35.8383	81.3592	7.3	25	29.7	154	20	31400	764	31000	100	M	3.6	2600	20	9.5	4.9	266	174	21.2	2.1	
1204	CL036	35.8073	81.3627	7.1	26	20.3	163	30	13000	515	9200	80	M	1.9	M	M	5.0	-1.0	209	107	M	M	
1205	CL037	35.7894	81.3562	7.0	30	128.1	468	14	62200	2740	45000	M	M	4.7	8200	10	53.2	8.9	913	695	87.5	13.0	
1206	CL038	35.8067	81.3948	7.2	25	27.6	58	24	37600	254	8000	80	36800	3.4	2000	20	7.0	1.8	67	37	3.3	0.4	
1207	CL039	35.8114	81.4273	7.4	31	74.3	296	45	39400	1547	30300	150	M	3.8	4500	40	29.4	9.0	531	337	45.3	4.8	
1208	CL040	35.8412	81.3852	7.2	20	18.9	84	24	40000	412	22300	130	10400	3.7	1400	40	6.1	2.1	176	81	9.7	1.4	
1209	CL041	35.8482	81.4482	7.0	20	83.9	153	9	36700	836	10900	180	M	4.5	2500	30	49.6	3.8	282	216	39.1	5.1	0.414
1210	CL042	35.8791	81.4883	7.1	33	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
1211	CL043	35.8364	81.5195	7.1	28	40.8	177	98	30100	1070	32100	350	M	3.1	3900	40	24.4	8.7	328	255	43.3	5.3	
1212	CL044	35.8202	81.5569	6.6	30	62.1	287	96	54600	1552	26800	410	5400	4.0	14000	60	59.4	4.5	505	395	47.5	6.3	
1213	CL045	35.8168	81.5753	6.9	30	41.9	218	108	54200	923	21800	720	8600	6.9	16200	50	39.6	2.2	392	198	24.5	1.6	
1214	CL046	35.7889	81.5574	7.0	22	15.4	69	29	53900	356	17300	110	2900	3.9	3400	70	6.3	2.8	117	84	6.2	1.3	
1215	CL047	35.7802	81.5516	7.0	21	37.2	107	49	67500	495	14500	280	17200	4.2	5100	80	36.0	1.8	206	104	15.3	1.4	
1216	CL048	35.7905	81.5056	7.1	32	78.4	306	35	54400	1734	23000	510	M	5.5	12000	80	68.2	6.3	492	408	29.4	4.9	
1217	CL049	35.7915	81.4651	7.1	31	23.3	113	31	44200	441	13900	110	4400	3.4	5600	20	17.2	1.9	164	87	8.0	M	
1218	CL050	35.7986	81.5006	7.1	28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
1219	CL051	35.8594	81.5819	7.1	40	5.3	21	19	38200	87	12500	300	M	5.2	3000	20	M	-1.0	36	15	M	-0.2	
1220	CL052	35.8408	81.5933	7.0	46	19.5	72	114	42100	362	20900	370	M	11.3	M	M	10.9	3.7	131	103	16.8	1.9	0.652
1221	CL053	35.9173	81.5751	7.4	51	7.0	19	79	48900	114	23000	510	M	7.6	4500	70	3.9	-1.0	60	23	7.7	-0.2	
1222	CL054	35.9392	81.5551	6.8	64	10.9	24	119	51000	237	50500	620	M	11.3	10000	120	13.7	-1.0	69	51	18.4	2.3	
1228	CL060	35.9853	81.5769	7.3	30	3.5	7	29	31200	118	29500	530	M	4.9	6800	90	2.5	-1.0	27	13	11.2	0.6	
1229	CL061	35.9686	81.5967	7.5	31	2.8	-1	23	47400	30	22100	430	M	3.9	8400	60	M	-1.0	26	10	4.7	0.6	
1230	CL062	35.9683	81.6159	7.6	23	3.2	10	29	31600	32	35000	630	5900	6.0	6000	70	1.4	2.1	19	18	6.2	M	
1240	CL072	35.9673	81.6334	7.7	29	2.9	-2	27	22500	23	13600	230	10000	4.9	2400	20	0.8	0.7	M	M	M	M	
1241	CL073	35.9217	81.6352	7.4	35	9.5	28	140	29000	163	49300	220	7100	6.9	2100	20	4.4	2.1	M	M	M	M	
1242	CL074	35.9338	81.6564	7.4	31	4.9	5	65	15000	-20	23300	330	4100	5.8	3100	10	1.5	0.6	M	M	M	M	
1243	CL075	35.9312	81.6826	7.6	29	7.5	21	134	24100	75	19200	380	2200	2.6	1600	30	2.9	-1.0	M	M	M	M	
1244	CL076	35.9445	81.7010	9.0	25	9.3	17	113	23900	87	16200	70	5200	4.1	3800	30	4.9	0.9	M	M	M	M	
1245	CL077	35.9652	81.7090	8.3	20	7.6	7	76	33400	94	16400	180	1100	5.9	1600	M	5.0	1.8	M	M	M	M	
1251	CL083	35.9979	81.6844	7.8	25	8.8	12	137	23000	134	31600	280	2000	9.7	2500	M	5.0	-1.0	M	M	M	M	
1252	CL084	35.9502	81.6767	7.4	29	5.0	10	78	22100	47	19600	240	2200	4.3	2000	110	2.4	1.2	M	M	M	M	
1417	CT001	35.5833	81.5115	6.7	9	6.3	26	13	43400	133	19700	200	3500	3.9	3400	60	9.8	2.6	94	18	5.9	0.6	
1418	CT002	35.5914	81.4912	7.0	23	6.5	36	21	28300	179	14200	160	900	3.2	4100	40	7.5	-1.0	M	15	M	0.6	
1419	CT003	35.6175	81.4755	6.7	28	17.4	13	61	M	39	-5000	M	M	2.2	M	M	14.1	-1.0	20	9	M	M	

HICKORY 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
1420	CT004	35.6360	81.4424	7.0	26	7.9	42	34	42000	200	18300	210	1100	5.3	3000	50	5.1	-1.0	102	166	M	0.7	
1421	CT005	35.5885	81.4424	6.8	28	10.7	39	44	25900	230	11500	270	500	2.6	5900	40	11.4	-1.0	155	22	5.7	0.4	
1422	CT006	35.5950	81.4149	7.4	23	10.4	76	19	62500	362	40400	200	700	11.8	5900	100	3.5	3.7	201	113	3.6	0.9	
1423	CT007	35.6017	81.3815	7.1	34	18.4	15	26	M	77	-5000	M	M	0.9	M	M	11.9	-1.0	45	4	M	M	
1424	CT008	35.5672	81.3984	6.9	29	8.3	52	13	32500	211	29500	70	1000	7.0	3200	40	3.4	-1.0	132	11	7.7	-0.2	
1425	CT009	35.5694	81.3283	6.4	38	7.7	55	26	51100	248	30300	450	1500	7.1	10800	100	8.5	2.2	138	8	M	0.6	
1426	CT010	35.5929	81.3489	6.4	22	18.2	207	44	57100	862	41700	410	M	7.2	15900	110	14.1	2.2	412	93	M	1.1	
1427	CT011	35.5914	81.3211	6.3	48	10.8	9	110	28200	47	5100	70	200	3.5	600	M	3.3	-1.0	18	11	M	M	
1428	CT012	35.5943	81.2970	6.5	64	4.0	6	57	53000	-20	65300	1340	7200	33.0	7500	160	5.0	1.3	M	6	4.2	0.9	
1429	CT013	35.6125	81.2887	6.7	50	3.6	4	52	38900	-20	33700	830	6200	9.3	9700	100	3.3	-1.0	47	32	5.1	0.5	
1430	CT014	35.6028	81.3511	7.1	42	9.0	89	41	44800	411	49600	640	1900	12.5	12000	120	14.1	2.0	260	31	M	1.3	
1431	CT015	35.6453	81.2885	6.7	53	6.9	M	116	M	M	M	M	M	20.3	M	M	4.6	M	M	M	M	M	
1432	CT016	35.6519	81.3808	7.1	41	16.6	185	111	27200	585	45000	1180	1900	11.4	24800	50	9.1	1.8	364	223	M	1.6	
1433	CT017	35.6732	81.4101	7.2	24	9.2	64	62	41200	262	21800	600	4200	6.1	10200	50	4.7	-1.0	93	9	4.2	0.9	
1434	CT018	35.6622	81.3644	7.2	12	10.2	98	52	14100	380	34300	240	800	10.7	3600	30	4.6	1.8	269	37	M	1.5	
1435	CT019	35.6653	81.2977	7.2	62	7.7	6	83	M	40	-5000	M	M	2.5	M	M	2.7	-1.0	27	4	M	M	
1436	CT020	35.6633	81.2531	6.7	174	6.0	36	49	45600	150	50600	650	3800	15.2	10900	100	3.9	2.0	118	88	10.9	0.6	
1437	CT021	35.6851	81.2536	7.4	88	5.5	18	76	39300	92	45100	790	4100	16.0	10500	110	1.7	1.3	58	7	3.9	-0.2	
1438	CT022	35.7002	81.3207	6.9	44	8.5	84	37	25700	380	57900	280	900	14.0	3200	40	5.0	2.0	171	24	M	-0.3	
1439	CT023	35.7079	81.2977	7.2	69	13.2	99	56	57400	486	54000	960	1400	9.6	13600	150	5.6	5.7	289	46	9.0	0.5	
1440	CT024	35.7287	81.2801	7.5	60	14.4	147	122	40800	538	54100	910	2700	9.2	18000	70	5.7	-1.0	321	153	M	1.1	
1441	CT025	35.7348	81.2579	7.0	33	6.4	M	20	M	M	M	M	M	8.5	M	M	8.5	M	M	3	1.3	M		
1442	CT026	35.7528	81.2581	6.8	23	10.0	38	8	37800	176	48200	80	M	10.3	2900	50	2.4	1.8	81	11	4.8	M	
1443	CT027	35.7507	81.2171	7.3	37	76.9	1007	416	39500	3441	79800	2270	2700	10.0	M	150	33.8	2.9	M	1111	46.5	1.8	
1444	CT028	35.7666	81.2887	6.8	31	15.3	80	20	19400	395	15500	50	300	4.3	1400	20	5.3	-1.0	197	35	7.1	1.0	0.308
1445	CT029	35.7834	81.3092	6.9	46	148.7	87	149	M	435	-5000	M	M	4.9	M	M	104.0	1.7	241	28	6.1	0.4	
1446	CT030	35.7881	81.2538	6.8	29	7.4	60	28	18800	284	35700	60	200	6.1	1500	30	2.6	-1.0	171	18	M	-0.3	
1447	CT031	35.8057	81.1982	7.1	32	21.6	192	136	34100	839	17900	400	600	4.8	11900	60	12.9	2.2	416	233	16.0	0.8	
1448	CT032	35.7820	81.2133	7.1	36	33.1	432	207	44000	1432	49800	930	3200	13.8	21900	80	14.6	1.7	689	379	M	1.5	0.288
1449	CT034	35.7655	81.1911	7.2	41	23.0	27	137	M	86	5700	M	M	1.0	M	M	11.7	1.3	64	6	2.7	-0.2	
1450	CT035	35.7342	81.1911	7.3	53	68.5	974	509	36300	3107	89900	2180	2400	19.5	53300	150	29.5	3.3	M	914	M	4.3	
1451	CT036	35.7117	81.1885	7.3	53	4.0	8	80	44100	67	37100	730	1900	17.2	13700	90	2.7	0.7	34	M	M	0.8	
1452	CT037	35.7983	81.1547	7.2	50	27.5	301	119	35000	781	57000	1330	3700	8.7	27300	70	8.7	1.3	472	196	M	1.0	
1453	CT038	35.7923	81.1385	7.3	52	30.6	32	128	M	140	9900	M	M	10.8	M	M	17.5	-1.0	98	7	M	-0.2	

HICKORY 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
1454	CT039	35.7668	81.1259	7.3	41	10.7	53	89	48100	346	77400	1130	M	14.6	27500	130	6.7	3.7	94	26	14.5	1.1	
1455	CT040	35.7552	81.1651	7.2	48	16.9	68	188	28100	411	30000	770	4900	13.7	14500	110	10.3	2.9	233	45	9.0	0.9	
1456	CT041	35.7348	81.1331	7.3	64	4.2	33	37	36700	148	37100	550	3900	8.8	9000	60	2.9	2.4	67	19	7.9	-0.3	
1457	CT042	35.7236	81.1580	7.2	66	6.7	1	113	M	17	-5000	M	M	1.5	M	M	M	0.9	27	M	M	M	
1458	CT043	35.7185	81.1164	7.2	60	7.5	30	65	48200	196	43900	690	2000	15.6	12200	100	5.3	1.8	74	84	M	-0.3	
1459	CT044	35.7101	81.0957	7.3	65	5.0	14	34	38500	78	21900	620	5900	8.6	9300	60	5.6	-1.0	49	M	M	-0.2	
1460	CT045	35.6974	81.1452	7.3	81	4.8	14	74	39900	115	45700	710	3700	14.8	12800	90	4.5	-1.0	54	116	12.1	1.0	0.245
1461	CT046	35.6749	81.1603	7.3	89	5.9	3	145	M	16	5200	M	M	11.9	M	M	5.0	-1.0	36	M	M	M	
1462	CT047	35.6762	81.1333	7.1	34	13.3	53	20	34100	233	32000	590	4200	10.5	7000	70	20.7	3.5	132	M	11.6	2.0	
1463	CT048	35.6402	81.2022	7.3	77	10.4	3	179	M	41	7200	M	M	12.6	M	M	2.7	-1.0	14	M	M	M	
1464	CT049	35.6042	81.2385	6.7	61	4.6	12	76	39900	62	41000	850	4800	16.6	9600	110	2.2	0.9	M	M	M	0.7	
1465	CT050	35.5960	81.2063	7.3	53	27.9	283	130	40900	1505	41900	1090	2400	14.5	24300	150	12.5	7.2	690	458	15.2	-0.2	0.294
1466	CT051	35.5863	81.1900	6.5	25	49.1	183	21	53200	786	41600	1390	2700	6.0	29400	50	61.0	5.9	487	88	43.4	5.0	
1467	CT052	35.5806	81.1686	6.6	23	23.3	10	28	M	45	-5000	M	M	1.1	M	M	21.9	-1.0	33	7	6.1	0.3	
1468	CT053	35.5624	81.1308	7.1	48	4.4	14	6	41300	94	45800	820	4800	12.5	12100	90	5.7	0.6	55	M	M	-0.3	0.259
1469	CT054	35.6193	81.1880	7.2	65	2.9	12	31	M	60	20600	M	M	7.0	M	M	1.3	0.6	54	5	5.0	M	
1470	CT055	35.6087	81.1475	6.6	20	61.1	155	23	58100	820	64700	1760	2300	14.3	43700	80	52.3	0.9	515	90	39.7	6.3	
1471	CT056	35.6425	81.1475	7.4	50	12.8	3	20	M	18	7000	M	M	9.8	M	M	16.8	-1.0	29	2	M	0.5	
1472	CT057	35.6707	81.0938	7.1	27	32.8	67	13	35900	352	30800	750	1600	6.9	18300	40	34.6	2.0	180	41	32.7	3.9	
1473	CT058	35.6942	81.0652	7.3	39	3.8	8	8	28400	59	21300	660	2500	5.2	10400	60	5.8	0.7	M	M	2.7	0.5	0.180
1474	CT059	35.6787	81.0393	7.1	46	10.6	29	134	36800	97	36300	850	2200	7.8	11400	60	3.4	-1.0	M	M	M	1.5	
1476	CT061	35.6470	81.0677	7.6	128	1.3	5	6	26000	21	38200	610	900	5.7	10800	60	2.2	-1.0	M	5	6.5	-0.3	
1477	CT062	35.6259	81.1065	6.7	22	22.5	53	20	19500	317	48100	390	600	6.7	9200	30	11.9	5.7	184	31	19.0	1.7	
1478	CT063	35.6254	81.0549	7.8	92	2.5	11	11	29100	29	48000	770	1000	6.6	11600	60	1.7	-1.0	M	15	7.1	-0.2	
1479	CT064	35.6107	81.0607	7.5	59	1.2	1	8	M	-20	-5000	M	M	5.3	M	M	2.9	-1.0	M	M	M	M	
1480	CT065	35.5984	81.0948	7.4	48	3.1	10	5	49300	102	71600	1270	3100	19.8	16600	120	3.4	2.9	M	54	M	1.2	
1481	CT066	35.5888	81.0774	6.7	40	1.5	4	14	21700	20	46800	980	700	4.8	26400	90	1.6	-1.0	44	M	M	-0.2	
1482	CT067	35.5754	81.0632	6.7	27	8.5	49	32	33200	213	28800	340	1300	5.4	6400	40	8.4	1.3	99	58	M	0.7	
1483	CT068	35.5691	81.0353	7.1	39	35.0	15	394	M	72	-5000	M	M	3.2	M	M	8.9	-1.0	60	8	M	0.3	
1484	CT070	35.6227	81.0175	6.9	42	27.0	166	191	37400	633	44600	570	5500	11.3	10000	100	16.0	1.3	381	44	19.0	1.7	
1485	CT071	35.6084	81.0017	7.1	48	6.2	M	87	M	10	5400	M	M	5.7	M	M	4.0	-1.2	33	M	M	M	
1536	CV002	35.5314	81.6852	7.6	40	7.0	1	25	46200	-20	-5000	340	4000	8.8	5300	50	4.6	-1.0	11	73	0.7	M	
1537	CV003	35.5408	81.6421	7.6	42	10.4	42	29	50200	211	19500	360	4100	6.2	4400	50	9.1	-1.0	94	21	3.6	0.7	
1538	CV004	35.5445	81.6111	7.1	29	8.3	44	20	42300	203	27200	180	1300	7.4	3300	40	10.9	2.4	111	22	5.3	1.3	

HICKORY 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
1539	CV005	35.5174	81.6499	7.0	50	5.8	32	30	41700	123	14300	280	2800	4.6	4400	50	4.7	4.2	67	13	3.6	0.4	
1540	CV006	35.5231	81.6005	7.6	34	12.7	87	20	36800	337	19100	130	1400	6.9	2400	40	14.1	2.4	198	39	8.4	1.0	
1541	CV007	35.5399	81.5475	7.1	31	12.5	62	27	53500	265	15400	180	2600	4.0	3500	40	3.6	-1.0	131	33	4.6	0.8	0.062
1542	CV008	35.5362	81.5202	7.4	34	45.2	418	39	57500	1444	25500	140	2600	5.7	5100	60	32.3	-1.0	806	168	19.5	0.8	
1543	CV009	35.5118	81.5621	7.6	22	32.2	118	32	71300	594	25400	260	1800	5.8	9800	100	9.9	4.2	320	67	10.0	1.3	
1544	CV010	35.5132	81.5820	7.1	30	19.6	129	29	49500	517	31300	200	1400	5.6	7500	60	22.4	-1.2	284	52	10.2	1.0	
3118	IR027	35.7261	81.0258	7.4	55	22.1	144	213	38100	795	61100	1230	3000	10.4	31900	120	11.8	4.0	409	89	9.0	1.2	
3119	IR028	35.7470	81.0021	7.0	43	16.3	142	80	44400	666	32600	570	2100	6.3	17000	100	9.2	5.7	373	71	8.2	1.2	
3166	IR075	35.7532	81.0816	7.6	65	8.5	63	47	46300	446	74100	1010	M	7.4	10400	140	5.2	-1.0	159	112	M	-0.5	
3167	IR076	35.7581	81.0425	7.4	62	4.0	19	26	32300	81	29900	450	9600	6.4	5900	40	4.0	-1.0	40	19	4.6	-0.2	
3168	IR077	35.7758	81.0222	7.4	47	7.7	50	53	36800	242	47400	530	M	4.7	12800	60	4.1	-1.0	143	82	5.9	-0.5	
3169	IR078	35.7982	81.0039	7.2	50	10.0	33	185	40500	280	40400	630	M	6.2	13900	80	5.9	2.0	109	59	10.5	1.2	
3170	IR079	35.8100	81.0027	7.2	90	21.4	134	258	47600	855	73300	950	M	8.2	22600	130	14.6	4.5	316	184	18.8	2.4	
3186	IR095	35.8903	81.0165	7.4	47	46.0	M	173	37100	M	M	810	5100	20.7	13600	70	35.0	M	M	M	M	M	
3187	IR096	35.8550	81.0053	7.2	55	6.1	M	71	37400	M	M	490	3100	13.1	10700	70	6.6	M	M	M	M	M	
3188	IR097	35.8300	81.0295	7.3	111	7.0	M	53	37700	M	M	640	5400	14.8	10800	100	3.7	M	M	M	M	M	
3189	IR098	35.7962	81.0633	7.2	78	5.7	M	138	39300	M	M	810	5700	18.2	18700	100	5.0	M	M	M	M	M	
3499	L1001	35.5414	81.4440	7.0	31	17.4	106	30	31000	495	30800	90	400	7.0	2300	40	M	4.6	277	56	14.5	1.4	
3500	L1002	35.5311	81.4988	7.1	29	8.5	44	20	16000	216	10600	30	200	2.4	1000	20	8.5	-1.0	146	31	6.9	0.5	
3501	L1003	35.5271	81.4433	7.0	35	8.6	7	18	M	16	-5000	M	M	3.5	M	M	5.7	-1.0	M	M	M	-0.2	
3509	L1011	35.5107	81.4092	7.2	40	34.3	231	68	41700	967	27500	360	1400	8.1	10600	70	20.3	6.1	590	97	15.4	1.9	
3510	L1012	35.5415	81.4003	6.9	36	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
3511	L1013	35.5638	81.3418	7.4	35	17.1	125	42	39900	717	31400	350	700	7.2	11500	80	6.8	M	338	59	3.8	-0.2	
3512	L1014	35.5470	81.3349	7.2	40	12.2	160	92	39300	740	44100	910	2600	17.0	27600	130	8.9	-1.0	366	62	9.8	1.3	
3513	L1015	35.5122	81.3413	7.1	41	12.9	101	60	47800	474	31300	390	M	7.9	19400	120	10.7	M	251	39	M	-0.2	
3521	L1023	35.5180	81.2780	7.1	65	12.9	26	333	34300	115	21700	510	1700	3.0	15600	50	15.6	3.3	67	11	10.6	2.1	
3522	L1024	35.5393	81.2856	7.3	75	5.7	M	113	38500	M	M	1110	2000	22.1	16900	110	7.2	M	M	M	M	M	
3523	L1025	35.5504	81.2606	7.6	75	5.3	16	128	35500	73	96000	940	1900	19.3	20500	110	3.8	-1.2	48	8	5.3	1.2	
3524	L1026	35.5387	81.2086	7.2	30	5.7	M	6	46400	M	M	760	2100	11.9	14300	50	6.8	M	M	95	M	M	
3525	L1027	35.5150	81.2366	7.3	28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
3535	L1037	35.5165	81.1655	7.3	23	6.6	22	6	19300	81	20300	210	1100	3.6	3200	10	2.6	-1.0	54	9	5.2	0.4	
3536	L1038	35.5346	81.1497	7.5	43	4.6	16	11	32700	71	35200	1010	3600	9.8	17000	90	5.5	-1.0	41	5	4.8	0.7	
3537	L1039	35.5169	81.1330	7.4	37	1.6	3	8	24000	-20	14300	240	600	2.6	3900	40	1.3	-1.0	M	M	4.2	M	
3538	L1040	35.5174	81.0974	7.5	34	5.6	25	24	12000	92	14300	90	1000	5.9	1300	10	1.4	-1.0	52	5	M	0.5	

HICKORY 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
3539	L1041	35.5268	81.0804	7.3	37	19.4	77	112	36300	314	16000	450	2600	5.1	6900	40	8.9	-1.0	150	21	M	0.9	
3540	L1042	35.5362	81.0532	7.4	44	13.6	76	96	30700	207	19900	380	1900	9.0	6900	40	3.1	1.5	52	17	4.0	-0.2	
3541	L1043	35.5000	81.0135	7.6	92	11.5	3	138	M	13	-5000	M	M	3.6	M	M	2.5	0.7	16	M	M	-0.2	0.082
3692	MC002	35.9007	81.9429	7.4	80	2.4	9	13	52700	72	27100	490	15200	11.1	3900	60	6.4	1.3	36	6	2.3	0.5	
3693	MC003	35.8723	81.9418	6.9	11	1.5	6	20	5100	81	6800	40	200	1.9	1800	10	3.6	-1.0	17	4	5.6	1.2	
3694	MC004	35.8506	81.9591	6.6	23	3.1	9	40	22500	72	15900	70	400	3.6	2700	20	7.0	1.8	31	10	5.3	0.8	
3695	MC006	35.8305	81.9984	5.8	10	3.1	8	34	21300	37	14100	790	400	2.4	2100	20	8.6	1.0	17	4	3.1	0.5	
3696	MC007	35.8492	81.9859	7.6	30	2.9	8	27	57000	69	36900	860	10500	15.7	8200	100	M	1.5	32	5	3.8	0.5	
3736	MC048	35.7528	81.9688	8.7	59	2.9	4	32	10700	44	8700	40	2500	2.8	600	10	1.1	1.8	17	4	1.7	0.2	0.114
3737	MC049	35.7589	81.9628	6.9	23	2.9	7	21	25900	69	18800	140	3600	3.0	3100	20	1.7	0.9	25	4	M	-0.2	
3738	MC050	35.7607	81.9404	7.4	33	2.4	7	23	16700	40	13600	270	1700	4.8	3900	30	4.0	2.2	21	4	M	0.3	
3739	MC051	35.7246	81.9252	7.4	33	5.2	16	98	38600	106	36400	510	4800	7.7	7700	40	3.7	4.0	80	6	5.0	0.9	
3740	MC052	35.7117	81.9784	7.5	61	7.4	12	155	27600	110	33300	190	3600	10.0	1900	30	2.8	1.3	41	13	7.9	1.2	
3741	MC053	35.7144	81.8780	7.5	42	15.5	53	257	34400	264	36900	890	3200	10.9	16600	60	24.1	8.1	167	28	13.5	2.9	
3742	MC054	35.6891	81.8918	7.5	49	15.9	42	245	40300	268	23000	800	3800	11.5	12100	60	23.3	4.8	127	29	13.0	2.2	
3743	MC055	35.6946	81.9149	7.5	50	11.5	42	172	44400	272	27200	760	3600	12.1	9400	60	21.5	6.1	167	29	12.1	2.9	
3744	MC056	35.6838	81.9316	7.3	40	13.3	29	188	26100	168	37300	90	200	7.8	500	M	13.8	2.9	M	8	M	M	
3745	MC057	35.6572	81.9154	6.8	43	4.6	22	11	38900	159	29300	330	5600	10.5	4500	50	9.2	2.4	74	8	9.2	0.5	
3746	MC058	35.6315	81.9427	7.4	39	3.4	22	11	37300	112	56700	670	8500	11.9	7500	80	11.0	2.2	M	M	13.1	1.5	
3747	MC059	35.6583	81.9488	7.3	34	17.7	82	215	60900	598	72200	1070	2000	11.7	12700	90	31.5	4.2	M	28	16.1	2.6	
3748	MC060	35.6588	81.9720	7.3	119	6.5	5	76	M	50	16200	M	M	11.0	M	M	5.0	2.0	93	5	M	-0.3	
3750	MC062	35.6254	81.9933	7.2	53	17.2	69	137	47600	421	62900	1370	3400	9.4	9900	110	38.6	3.9	M	30	20.2	3.7	
3751	MC063	35.6073	81.9963	7.1	39	33.3	140	380	46000	989	32600	910	2900	9.2	13300	110	31.1	9.2	562	113	22.4	3.8	0.436
3760	MC072	35.5528	81.9706	7.0	45	3.8	M	9	M	M	M	M	M	14.3	M	M	1.3	M	M	M	M	M	
3761	MC073	35.5611	81.9238	7.5	40	12.9	47	71	39300	330	23000	780	7200	15.5	3700	90	28.7	2.2	M	24	19.1	2.4	
3762	MC074	35.5605	81.8530	7.6	39	14.6	98	122	47200	461	37200	660	6500	26.9	4600	110	19.3	4.0	217	35	16.6	1.8	
3763	MC075	35.5772	81.8625	7.5	31	7.3	35	50	62100	170	23600	550	4400	7.5	4000	80	12.7	1.5	146	36	9.3	0.7	0.187
3764	MC076	35.5858	81.8913	7.4	29	8.0	7	42	M	49	-5000	M	M	7.5	M	M	12.6	2.2	M	M	M	-0.3	
3765	MC077	35.5991	81.8544	7.4	46	11.3	38	97	54400	221	17300	680	4700	11.1	5800	90	17.9	2.0	142	17	9.2	0.8	
3766	MC078	35.6099	81.8874	7.5	40	7.5	46	32	12100	305	25100	170	2400	12.8	1600	20	7.8	2.8	148	44	15.3	1.4	0.710
3767	MC079	35.6228	81.8500	7.5	38	3.7	8	31	21100	81	20700	190	2500	10.9	700	30	1.5	0.9	26	8	2.0	0.4	
3768	MC080	35.6407	81.8709	7.4	30	13.1	96	45	32900	580	32900	380	5400	7.2	6100	60	41.4	3.5	298	59	26.3	2.7	
3769	MC081	35.5963	81.9589	7.2	35	3.4	6	4	44300	69	34900	960	9600	12.0	14800	90	11.9	1.1	29	8	3.9	0.8	
5284	RU052	35.5585	81.7343	6.8	23	5.1	39	29	58100	172	31900	420	2200	12.3	6000	80	3.6	-1.0	100	16	5.0	-0.2	

HICKORY 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
5285	RU053	35.5419	81.7726	6.9	10	7.1	54	33	62900	246	27200	820	5300	6.2	7400	80	3.5	-1.0	115	17	8.0	-0.2	
5286	RU054	35.5572	81.8158	6.8	21	13.3	111	91	70100	520	61000	1070	9600	18.8	8000	180	7.0	6.3	269	51	12.3	1.6	
5299	RU067	35.5273	81.7046	7.1	19	10.9	68	20	51400	286	10600	240	3800	5.0	3000	50	3.9	-1.2	156	31	3.9	M	
5300	RU068	35.5523	81.6943	7.1	21	10.1	76	17	63900	277	24600	520	4500	7.7	6100	80	5.1	5.2	180	30	8.0	-0.2	
5301	RU069	35.5282	81.7260	7.0	25	5.8	42	22	63900	174	27700	870	3700	6.5	9400	70	3.1	1.5	84	17	M	0.5	0.063
5302	RU070	35.5065	81.7916	7.0	30	10.0	105	30	60200	442	54800	970	4500	13.3	6500	120	9.1	2.9	245	46	8.6	1.4	
5303	RU071	35.5390	81.8039	7.0	42	4.3	13	40	52600	81	36400	710	8600	17.1	3700	100	5.3	2.2	42	10	5.5	0.5	
5304	RU072	35.5220	81.8523	7.2	38	4.0	11	26	72600	47	40700	720	14200	19.7	4000	110	3.7	6.1	45	10	3.0	M	
5307	RU075	35.5271	81.8870	7.4	30	42.3	268	203	62300	1776	30300	1350	7800	21.0	11000	120	78.5	24.7	834	201	31.6	4.4	
5324	RU092	35.5142	81.9709	7.0	36	8.3	23	72	48000	156	30100	610	10600	10.8	5500	80	11.4	3.9	110	19	10.7	1.7	

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
2	AE002	35.9845	81.1815	.	-0.5		.	0.6	.	9	10	6	13800	12	3200	-5	-5	15	1540	-10		20	53	2	-5	24
5	AE005	35.9958	81.0626	.	-0.5		.	1.5	.	9	5	6	19800	15	2750	-5	-5	8	1780	-10		25	86	2	230	24
9	AE009	35.9734	81.0042	.	-0.5		.	0.7	.	8	19	7	13000	11	2450	-5	-5	9	2720	-10		-5	-50	2	70	23
10	AE010	35.9507	81.0115	.	0.5		.	1.2	.	9	33	9	11400	14	2700	-5	85	11	1370	-10		-5	-50	-2	195	32
11	AE011	35.9332	81.0196	.	-0.5		.	1.2	.	8	22	6	12200	14	2450	-5	25	7	2000	-10		-5	-50	2	-5	18
12	AE012	35.9109	81.0307	.	-0.5		.	0.6	.	9	22	8	96100	8	1100	-5	35	8	3790	10		5	-50	-2	285	22
13	AE013	35.8987	81.0457	.	0.5		.	0.6	.	7	23	7	12200	8	1300	-5	85	6	4680	10		-5	-50	3	250	20
14	AE014	35.9207	81.0694	.	-0.5		.	1.5	.	13	15	7	18600	16	1200	-5	35	13	2450	10		-5	-50	-2	80	27
15	AE015	35.9204	81.0878	.	-0.5		.	1.0	.	10	17	6	16600	11	2900	-5	20	7	3030	10		-5	78	-2	335	17
16	AE016	35.9369	81.0817	.	-0.5		.	1.5	.	8	5	5	27000	13	550	-5	-5	8	964	15		-5	72	2	135	15
17	AE017	35.9731	81.0826	.	1.0		.	1.1	.	12	10	7	12400	8	1750	-5	.	9	738	-10		-5	-50	3	100	24
18	AE018	35.9418	81.1186	.	-0.5		.	1.5	.	10	-5	6	16400	7	1750	-5	5	9	888	-10		-5	-50	3	370	16
19	AE019	35.9346	81.1349	.	-0.5		.	1.2	.	7	13	5	11000	5	1300	-5	-5	6	452	10		15	64	2	145	13
20	AE020	35.9566	81.1261	.	0.5		.	1.0	.	14	6	7	14600	7	850	-5	.	9	634	-10		-5	-50	3	210	23
21	AE021	35.9663	81.1620	.	0.5		.	1.0	.	14	5	12	11400	14	1450	-5	30	14	977	10		-5	-50	3	255	28
22	AE022	35.9469	81.1895	.	-0.5		.	1.5	.	10	20	8	11800	12	2000	-5	35	11	898	10		5	-50	3	510	20
23	AE023	35.9291	81.2130	.	0.5		.	1.5	.	14	-5	11	13800	15	1400	-5	15	13	433	20		15	-50	-2	175	38
24	AE024	35.9533	81.2262	.	-0.5		.	0.5	.	7	7	5	14800	10	1450	5	5	6	738	-10		-5	-50	-2	285	13
25	AE025	35.9864	81.2445	.	-0.5		.	1.2	.	8	13	8	12400	12	2150	-5	10	14	718	-10		-5	-50	5	115	22
26	AE026	35.9977	81.2329	.	0.5		.	1.0	.	10	8	7	12600	11	2550	-5	-5	12	502	15		20	-50	3	-5	23
28	AE028	35.9682	81.2751	.	0.5		.	1.0	.	11	8	7	11400	15	3400	-5	20	16	711	10		-5	-50	-2	140	24
29	AE029	35.9588	81.2707	.	-0.5		.	1.0	.	12	8	7	12800	14	4400	-5	-5	14	992	10		20	50	3	110	24
30	AE030	35.9316	81.2655	.	-0.5		.	0.9	.	5	7	4	14400	14	1400	-5	20	6	1220	15		-5	-50	-2	140	20
31	AE031	35.9407	81.2999	.	-0.5		.	1.8	.	18	14	15	8200	18	2700	-5	30	27	674	15		-5	-50	2	20	47
32	AE032	35.9405	81.3111	.	0.5		.	1.0	.	12	22	5	14000	12	3500	-5	35	12	1400	10		-5	-50	2	75	24
33	AE033	35.9281	81.3084	.	0.5		.	0.5	.	12	11	5	11000	10	3300	-5	35	10	1280	15		-5	-50	4	110	22
34	AE034	35.9016	81.2857	.	-0.5		.	1.4	.	11	7	6	17000	21	2000	5	35	6	1080	25		-5	-50	4	75	34
35	AE035	35.8899	81.3222	.	0.5		.	0.8	.	12	14	6	12200	12	2500	6	85	12	1200	15		5	-50	4	155	22
36	AE036	35.8827	81.3083	.	0.5		.	1.0	.	9	7	5	12000	16	2050	-5	30	13	1080	15		10	-50	-2	410	22
37	AE037	35.8452	81.3034	.	0.5		.	0.7	.	11	12	7	9800	16	1150	-5	30	11	1190	10		10	-50	4	290	27
38	AE038	35.8378	81.3326	.	0.5		.	1.1	.	11	30	9	6600	20	2050	-5	20	14	1620	15		-5	-50	-2	410	37
39	AE039	35.8183	81.3294	.	0.5		.	1.2	.	14	21	13	6400	23	2600	-5	85	15	1220	10		25	-50	-2	330	52
40	AE040	35.8313	81.2964	.	-0.5		.	1.0	.	15	26	11	5100	19	2000	6	35	13	1400	15		-5	-50	9	330	46
41	AE041	35.8594	81.2730	.	0.5		.	1.3	.	14	13	9	18800	13	2650	-5	10	10	468	10		-5	60	-2	40	25

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
42	AE042	35.8403	81.2465	.	0.5		.	1.3	.	11	12	7	14000	16	2250	5	35	10	759	15		5	-50	-2	140	28
43	AE043	35.8400	81.2443	.	-0.5		.	1.2	.	14	-5	8	12200	18	3000	-5	20	19	635	-10		5	-50	4	-5	42
44	AE044	35.8351	81.2135	.	-0.5		.	1.0	.	13	11	6	12400	12	2100	-5	25	12	642	10		10	-50	4	220	26
45	AE045	35.8644	81.2112	.	-0.5		.	1.2	.	11	14	5	12600	14	2250	-5	30	15	498	10		5	-50	5	-5	25
46	AE046	35.8903	81.2332	.	-0.5		.	1.1	.	7	35	5	18200	15	2100	-5	35	11	1980	15		25	66	4	155	20
47	AE047	35.9106	81.2304	.	0.5		.	1.2	.	10	13	5	18000	16	2200	-5	35	6	1730	10		10	51	4	190	20
48	AE048	35.8957	81.1840	.	-0.5		.	1.1	.	9	12	7	14200	18	2900	-5	10	12	2200	20		5	-50	-2	245	34
49	AE049	35.8950	81.1625	.	-0.5		.	0.8	.	8	8	5	12800	13	1750	5	15	11	966	10		50	-50	-2	200	17
50	AE050	35.9032	81.1396	.	-0.5		.	1.2	.	9	7	6	11400	19	2250	-5	-5	10	1920	-10		-5	-50	-2	30	21
51	AE051	35.8860	81.1127	.	-0.5		.	0.5	.	6	25	4	4400	5	850	-5	35	6	1190	10		15	-50	3	80	11
52	AE052	35.8659	81.1741	.	-0.5		.	1.9	.	6	13	5	4400	12	2000	5	-5	7	1160	10		-5	-50	-2	90	19
53	AE053	35.8320	81.1344	.	-0.5		.	1.1	.	9	21	9	8200	8	2900	-5	20	13	2510	-10		20	-50	-2	65	25
54	AE054	35.8102	81.0993	.	0.5		.	0.7	.	10	16	8	7000	5	3000	-5	20	28	1680	10		10	55	-2	200	20
55	AE055	35.8288	81.1025	.	0.5		.	1.2	.	8	13	8	7800	9	2900	5	10	16	997	-10		-5	-50	3	155	28
56	AE056	35.8367	81.0832	.	-0.5		.	1.1	.	8	22	6	9600	8	4000	5	25	13	997	-10		10	-50	-2	100	21
57	AE057	35.8472	81.0538	.	-0.5		.	1.0	.	13	18	11	6800	6	3500	6	-5	22	602	15		-5	-50	2	70	31
58	AE058	35.8801	81.0353	.	-0.5		.	1.1	.	11	7	13	5800	6	4700	-5	5	32	1340	15		-5	-50	3	130	32
59	AE059	35.8854	81.0864	.	-0.5		.	1.4	.	8	11	4	10000	7	1800	-5	35	40	1140	10		-5	-50	2	155	19
328	AV001	35.9703	81.9989	.	-0.5		.	1.5	.	10	-5	14	12000	5	850	-5	65	9	400	-10		10	-50	-2	20	38
346	AV019	35.9561	81.9696	.	-0.5		.	0.5	.	10	-5	9	10000	5	1100	-5	25	8	500	-10		-5	86	-2	10	38
349	AV022	35.9960	81.9403	.	-0.5		.	1.0	.	9	-5	11	13000	5	950	-5	30	17	500	-10		15	-50	-2	-5	55
350	AV023	35.9795	81.9338	.	-0.5		.	-0.5	.	5	-5	5	19000	10	2150	-5	40	-5	400	10		10	-50	-2	-5	25
369	AV042	35.9814	81.8235	.	-0.5		.	1.5	.	-5	-5	4	20000	5	1150	-5	15	-5	500	-10		5	-50	-2	10	20
377	BK001	35.9899	81.9041	.	-0.5		.	1.3	.	11	-5	6	19600	13	2200	-5	-5	6	539	10		15	-50	2	130	34
378	BK002	35.9556	81.8781	.	-0.5		.	0.5	.	9	-5	5	19400	6	1550	-5	-5	7	493	15		5	-50	-2	-5	20
379	BK003	35.9318	81.8547	.	-0.5		.	-0.5	.	6	-5	3	11400	-5	500	-5	-5	3	436	-10		20	-50	-2	-5	5
380	BK004	35.9393	81.8194	.	0.5		.	1.4	.	9	-5	8	17000	15	2050	-5	5	7	782	15		15	-50	3	60	40
381	BK005	35.8838	81.7909	.	0.5		.	2.0	.	10	-5	7	16000	10	2400	-5	10	11	789	-10		35	80	-2	130	43
382	BK006	35.8764	81.7944	.	-0.5		.	1.4	.	7	5	6	18800	12	3750	-5	10	6	340	-10		15	64	-2	35	48
383	BK007	35.8827	81.7411	.	-0.5		.	0.8	.	6	5	10	11800	17	2650	-5	10	5	703	-10		-5	57	-2	-5	35
384	BK008	35.8666	81.7276	.	-0.5		.	1.1	.	5	14	6	13400	8	3100	-5	20	9	1180	15		15	199	-2	65	34
385	BK009	35.8758	81.7557	.	-0.5		.	3.0	.	9	-5	9	19400	15	3000	-5	60	6	882	15		10	106	-2	10	48
386	BK010	35.8563	81.7989	.	-0.5		.	1.0	.	-5	-5	5	18400	8	1950	-5	-5	-5	1040	15		-5	51	-2	-5	28
387	BK011	35.8523	81.8191	.	0.5		.	0.8	.	5	-5	5	15400	8	2250	6	-5	-5	814	10		-5	65	3	35	30

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
388	BK012	35.8444	81.8339	.	-0.5		.	0.9	.	8	-5	7	13400	10	2900	6	-5	6	1460	10		20	141	-2	50	37
389	BK013	35.8214	81.8590	.	0.5		.	-0.5	.	5	625	4	6000	5	1300	9	-5	-5	3780	-10		10	-50	20	25	10
390	BK014	35.7968	81.8954	.	-0.5		.	0.7	.	7	-5	6	11000	6	3100	-5	-5	5	825	10		10	113	-2	25	21
391	BK015	35.7867	81.9218	.	-0.5		.	-0.5	.	5	-5	3	10200	-5	850	-5	-5	-5	1170	-10		5	-50	-2	30	-5
392	BK016	35.7700	81.9325	.	-0.5		.	-0.5	.	8	-5	5	8000	6	2550	-5	-5	8	932	10		10	69	20	60	26
393	BK017	35.8208	81.8092	.	-0.5		.	-0.5	.	-5	-5	4	8200	6	400	-5	5	6	364	-10		35	72	2	90	14
394	BK018	35.7936	81.7973	.	-0.5		.	0.7	.	9	8	5	9600	10	2150	-5	5	-5	511	10		10	53	-2	45	16
395	BK019	35.8340	81.7110	.	-0.5		.	1.0	.	8	13	6	14000	6	2350	-5	15	7	635	10		-5	110	4	70	32
396	BK020	35.8440	81.6605	.	0.5		.	-0.5	.	5	-5	5	7200	5	1700	-5	35	6	693	10		-5	-50	-2	385	13
397	BK021	35.8300	81.6758	.	0.5		.	0.5	.	7	-5	7	11800	9	2150	-5	-5	9	571	-10		-5	-50	-2	15	21
398	BK022	35.8253	81.6355	.	1.0		.	1.4	.	13	-5	16	11600	13	1400	-5	-5	10	921	15		-5	-50	-2	65	58
399	BK023	35.7986	81.6032	.	-0.5		.	0.5	.	8	7	9	9600	5	2700	-5	10	10	685	10		-5	-50	-2	95	24
400	BK024	35.7971	81.6205	.	-0.5		.	0.5	.	6	-5	6	8800	6	2100	-5	-5	5	546	15		-5	-50	2	65	14
401	BK026	35.7942	81.7185	.	-0.5		.	1.0	.	7	-5	8	10800	8	3000	-5	30	-5	810	15		-5	-50	-2	215	37
402	BK027	35.8036	81.7629	.	-0.5		.	1.3	.	10	-5	11	9800	7	3000	-5	15	5	471	-10		-5	-50	2	150	27
403	BK028	35.7802	81.7725	.	-0.5		.	1.1	.	9	-5	6	12200	11	2050	-5	25	8	464	10		5	-50	-2	90	18
404	BK029	35.7684	81.7247	.	-0.5		.	1.2	.	5	-5	5	19200	5	2700	-5	10	5	671	-10		5	70	-2	90	13
405	BK030	35.7528	81.7447	.	0.5		.	1.7	.	10	6	10	10600	18	2050	-5	10	-5	921	20		5	-50	2	75	29
406	BK031	35.7184	81.7741	.	-0.5		.	0.9	.	7	-5	9	11200	8	2350	-5	-5	-5	821	10		-5	-50	-2	445	22
407	BK032	35.7252	81.8005	.	-0.5		.	1.2	.	8	-5	11	10400	8	2050	-5	-5	6	946	15		-5	-50	2	785	39
408	BK033	35.7366	81.8285	.	-0.5		.	0.8	.	6	-5	5	11600	5	2550	-5	-5	6	575	-10		-5	-50	-2	105	13
409	BK034	35.7180	81.8285	.	-0.5		.	0.9	.	7	-5	10	7800	7	3000	-5	-5	6	503	10		-5	-50	-2	200	24
410	BK035	35.7106	81.8555	.	-0.5		.	0.8	.	9	-5	6	12400	6	1550	-5	-5	8	393	10		10	68	-2	45	22
411	BK036	35.6750	81.8126	.	-0.5		.	1.5	.	9	-5	13	11600	6	2250	5	-5	13	585	10		20	-50	-2	70	33
412	BK037	35.7156	81.7251	.	-0.5		.	1.4	.	10	-5	8	9600	6	2400	6	65	-5	760	15		20	63	2	105	15
413	BK038	35.7002	81.7122	.	0.5		.	1.3	.	12	-5	12	9600	10	2400	-5	20	-5	785	15		35	-50	-2	60	56
414	BK039	35.6976	81.7563	.	-0.5		.	1.2	.	10	25	6	9200	9	1500	-5	10	5	600	10		25	-50	-2	-5	22
415	BK040	35.6642	81.7449	.	0.5		.	1.2	.	9	331	9	9800	6	2250	8	15	8	742	10		5	58	3	145	24
416	BK041	35.6581	81.7657	.	-0.5		.	1.7	.	9	-5	8	10600	6	2600	-5	20	-5	575	10		15	69	-2	15	18
417	BK042	35.6634	81.8005	.	0.5		.	1.1	.	9	-5	7	10200	14	650	-5	15	-5	471	10		25	-50	3	125	16
418	BK043	35.6413	81.8278	.	-0.5		.	1.4	.	9	6	13	10200	6	2450	-5	5	8	568	10		25	60	2	115	27
419	BK044	35.6001	81.8146	.	0.5		.	1.4	.	12	5	14	10800	5	2600	5	5	10	703	10		15	90	-2	25	31
420	BK045	35.6280	81.8005	.	-0.5		.	1.6	.	17	13	25	16200	10	5500	5	15	23	1790	15		15	89	-2	245	51
421	BK046	35.6422	81.7543	.	0.5		.	2.9	.	25	7	17	15800	12	4500	5	-5	17	1140	15		20	174	-2	45	67

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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422	BK047	35.6568	81.7169	.	-0.5		.	1.5	.	12	12	14	10400	9	3400	-5	15	16	1150	15		20	59	-2	370	33
423	BK048	35.6791	81.7108	.	-0.5		.	1.5	.	12	15	9	14200	7	4500	-5	5	11	1280	15		20	161	-2	110	24
424	BK049	35.6378	81.6919	.	0.5		.	2.7	.	22	9	13	22000	30	6000	-5	5	28	896	20		15	94	-2	120	71
425	BK050	35.6284	81.6658	.	0.5		.	1.9	.	13	18	12	18400	22	5000	-5	-5	19	1300	15		15	76	-2	20	43
426	BK051	35.6394	81.6873	.	1.0		.	2.1	.	18	7	12	21200	22	6500	5	5	16	2130	20		25	57	-2	10	59
427	BK052	35.6689	81.6568	.	0.5		.	1.3	.	15	12	12	12200	9	3500	-5	5	12	1410	40		15	53	-2		36
428	BK053	35.6936	81.6873	.	-0.5		.	1.3	.	7	12	5	10200	6	3500	-5	5	6	985	-10		15	182	-2	60	15
429	BK054	35.7045	81.6664	.	0.5		.	1.3	.	10	8	6	13000	6	3750	-5	-5	6	1080	15		5	192	-2		20
430	BK055	35.7092	81.6403	.	-0.5		.	1.3	.	13	88	8	11000	5	2350	-5	20	9	925	15		15	73	-2	60	21
431	BK056	35.7449	81.6295	.	-0.5		.	1.1	.	16	11	12	9600	6	1700	-5	20	8	536	15		25	-50	-2	15	30
432	BK057	35.7676	81.6093	.	-0.5		.	1.3	.	10	12	13	10400	9	4250	5	65	13	1110	35		20	-50	-2	85	64
433	BK058	35.7600	81.5895	.	-0.5		.	1.4	.	9	18	9	8200	11	1950	-5	40	15	857	25		20	-50	-2	205	30
434	BK059	35.7456	81.5915	.	-0.5		.	1.4	.	12	16	9	12000	11	2400	5	65	7	1250	25		15	-50	-2	245	31
435	BK060	35.7612	81.5492	.	-0.5		.	2.0	.	14	22	17	11200	24	2050	6	15	20	2280	25		25	-50	5	666	57
436	BK061	35.7456	81.5164	.	0.5		.	1.7	.	12	10	13	12400	19	2450	-5	5	19	878	30		20	-50	-2	190	39
437	BK062	35.7537	81.4859	.	-0.5		.	1.5	.	12	39	10	12800	19	2100	-5	5	11	1610	25		10	-50	-2	330	37
438	BK063	35.7634	81.4623	.	1.0		.	1.4	.	12	21	11	14400	11	1750	-5	.	10	1140	20		14	-50	-2	163	41
439	BK064	35.7457	81.4156	.	-0.5		.	1.4	.	10	16	9	12000	16	2050	-5	-5	10	1140	15		-5	-50	-2	25	33
440	BK065	35.7388	81.4373	.	-0.5		.	1.4	.	15	20	11	9000	15	1250	5	.	13	1260	20		10	-50	-2	115	35
441	BK066	35.7269	81.4486	.	0.5		.	1.2	.	12	12	12	11800	16	1050	7	-5	10	1210	20		-5	-50	-2	80	35
442	BK067	35.7280	81.4798	.	-0.5		.	1.6	.	15	26	13	12000	19	1900	6	5	15	1590	15		-5	-50	-2	200	36
443	BK068	35.7021	81.4431	.	-0.5		.	1.3	.	13	20	12	10600	15	1300	-5	5	14	1280	65		-5	-50	-2	310	39
444	BK069	35.7054	81.5007	.	-0.5		.	1.8	.	16	13	9	13400	30	1800	-5	5	13	650	15		20	-50	2	155	37
445	BK070	35.6811	81.4418	.	-0.5		.	1.4	.	14	12	8	7200	12	2500	-5	5	14	857	10		30	-50	2	75	25
446	BK071	35.6707	81.4637	.	-0.5		.	1.1	.	9	26	7	7000	10	1350	-5	10	9	1140	15		-5	-50	2	210	26
447	BK072	35.6854	81.4803	.	-0.5		.	1.5	.	11	10	8	14200	19	2050	-5	5	12	1320	10		-5	-50	-2	65	26
448	BK073	35.6469	81.4752	.	-0.5		.	1.6	.	12	12	9	11600	17	2950	-5	-5	17	757	10		15	-50	-2	10	30
449	BK074	35.6557	81.5215	.	-0.5		.	1.8	.	11	19	9	8800	14	3000	-5	-5	21	1420	10		15	-50	-2	110	34
450	BK075	35.6976	81.5310	.	-0.5		.	1.5	.	14	14	9	13800	25	2150	-5	-5	12	685	15		35	-50	-2	55	46
451	BK076	35.7029	81.5683	.	-0.5		.	1.6	.	14	23	11	12800	20	2000	-5	5	20	814	15		-5	-50	2	155	38
452	BK077	35.6866	81.6007	.	0.5		.	1.7	.	17	29	10	9600	12	2700	-5	10	17	1310	15		20	-50	4	375	40
453	BK078	35.6745	81.5413	.	-0.5		.	1.8	.	12	17	8	15000	27	2400	-5	15	10	2380	15		5	-50	2	580	33
454	BK079	35.6654	81.6164	.	-0.5		.	1.2	.	16	22	11	7200	14	2500	6	5	15	757	10		25	-50	2	170	31
455	BK080	35.6503	81.6066	.	-0.5		.	1.9	.	25	20	19	9600	36	3900	-5	-5	37	1090	20		-5	-50	-2	120	61

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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456	BK081	35.6578	81.5867	.	-0.5		.	1.7	.	12	19	9	9800	21	3250	-5	5	11	1350	10		10	-50	2	275	28
457	BK082	35.6403	81.5570	.	-0.5		.	1.6	.	15	15	14	15800	24	2150	-5	10	25	957	15		25	-50	-2	225	44
458	BK084	35.6105	81.5151	.	-0.5		.	0.5	.	6	45	7	12200	13	1700	-5	-5	18	2080	10		5	-50	-2	55	21
459	BK085	35.6123	81.5365	.	-0.5		.	0.8	.	7	5	6	11600	21	3600	-5	-5	11	1320	10		15	-50	-2	-5	26
460	BK086	35.6081	81.6052	.	-0.5		.	1.2	.	9	40	8	21000	30	5250	-5	-5	17	1600	10		20	65	-2	45	41
461	BK087	35.5949	81.6136	.	-0.5		.	1.4	.	8	50	9	21000	27	4750	-5	-5	15	1900	10		15	80	-2	150	42
462	BK088	35.5842	81.5859	.	0.5		.	1.5	.	12	48	12	19600	42	5000	-5	-5	21	2650	15		5	59	-2	-5	50
463	BK089	35.5916	81.5770	.	-0.5		.	0.6	.	10	85	13	9800	26	5750	-5	-5	20	1640	10		5	-50	-2	100	38
464	BK090	35.5941	81.5519	.	-0.5		.	0.6	.	5	-5	5	21200	15	1800	-5	-5	8	1650	10		10	-50	-2	10	18
465	BK091	35.5689	81.5506	.	-0.5		.	1.0	.	6	-5	4	22000	17	2050	-5	-5	5	1290	10		15	88	-2	-5	22
772	CL005	35.9861	81.7566	.	0.5		.	2.0	.	8	6	5	14000	5	1550	-5	-5	12	1060	10		-5	98	-2	35	29
773	CL006	35.9753	81.7646	.	-0.5		.	1.9	.	32	-5	20	18000	9	2500	-5	-5	24	928	40		-5	80	-2	10	44
774	CL007	35.9483	81.7570	.	0.5		.	2.4	.	14	18	10	14000	12	2050	-5	-5	14	904	15		-5	89	-2	5	64
775	CL008	35.8986	81.7172	.	0.5		.	2.0	.	9	10	6	17000	7	1600	-5	-5	10	921	-10		-5	94	-2	25	32
776	CL009	35.8914	81.6817	.	0.5		.	1.0	.	12	55	7	14400	11	6000	5	-5	11	1250	10		20	253	2	5	29
777	CL010	35.8749	81.6601	.	0.5		.	0.7	.	9	169	6	8200	8	4200	6	-5	10	1200	10		-5	134	-2	35	19
778	CL011	35.8788	81.6188	.	0.5		.	0.6	.	8	67	7	7200	8	3200	15	-5	8	568	15		15	97	-2	85	26
779	CL012	35.8614	81.6149	.	-0.5		.	1.1	.	8	30	8	14200	7	4200	9	-5	12	900	10		15	157	-2	10	16
780	CL013	35.8820	81.5849	.	-0.5		.	1.2	.	8	56	8	13800	10	3250	8	-5	6	739	-10		-5	88	-2	70	25
781	CL014	35.9533	81.5038	.	0.5		.	1.2	.	6	-5	5	15000	8	3500	5	-5	5	703	10		15	122	-2	15	18
782	CL015	35.9748	81.4820	.	-0.5		.	1.3	.	6	-5	5	16600	11	3300	12	-5	8	625	-10		20	96	-2	-5	23
788	CL021	35.9988	81.4091	.	-0.5		.	1.3	.	6	5	5	24800	6	4200	17	-5	8	507	15		10	182	-2	-5	20
789	CL022	35.9944	81.3986	.	-0.5		.	0.9	.	7	11	6	11000	8	4200	14	-5	6	675	10		15	92	-2	10	17
791	CL024	35.9579	81.4464	.	-0.5		.	1.1	.	-5	23	8	5800	6	4800	-5	-5	20	1120	40		20	130	-2	10	28
792	CL025	35.9465	81.4854	.	-0.5		.	1.2	.	22	-5	8	14000	-5	2900	6	-5	12	814	20		-5	74	2	-5	28
793	CL026	35.9080	81.4467	.	-0.5		.	0.9	.	10	-5	8	9600	10	2600	-5	-5	15	1260	10		-5	-50	-2	30	29
794	CL027	35.9139	81.4353	.	-0.5		.	1.0	.	6	15	4	11800	7	2650	-5	-5	9	921	10		-5	-50	-2	30	18
795	CL028	35.9015	81.4234	.	-0.5		.	1.0	.	24	-5	16	10600	12	4950	6	.	32	910	40		6	-50	-2	25	40
796	CL029	35.8868	81.4262	.	0.5		.	1.5	.	12	25	8	16800	23	2000	6	-5	20	789	10		-5	-50	-2	10	33
797	CL030	35.9086	81.4071	.	-0.5		.	1.2	.	7	35	5	10600	11	3000	6	-5	12	825	10		10	-50	-2	5	20
798	CL031	35.9315	81.3708	.	-0.5		.	1.0	.	8	61	5	9000	9	2800	-5	-5	12	1010	10		-5	-50	2	35	16
799	CL032	35.9585	81.3378	.	-0.5		.	1.2	.	9	30	7	16600	12	2600	-5	-5	13	921	10		-5	-50	2	15	29
800	CL033	35.8930	81.3743	.	-0.5		.	1.4	.	8	45	6	16200	19	1450	6	-5	13	1400	10		-5	-50	15	105	25
801	CL034	35.8715	81.3697	.	-0.5		.	1.0	.	7	12	5	17400	17	1900	6	-5	11	1320	15		-5	-50	-2	75	21

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
802	CL035	35.8383	81.3592	.	-0.5		.	1.0	.	9	30	6	16000	19	1100	-5	-5	12	1090	15		-5	-50	4	-5	23
803	CL036	35.8073	81.3627	.	-0.5		.	0.7	.	9	10	4	11800	11	1450	-5	-5	13	917	10		10	-50	-2	30	18
804	CL037	35.7894	81.3562	.	-0.5		.	1.5	.	9	115	10	5400	20	1650	-5	20	14	2630	10		-5	-50	5	415	36
805	CL038	35.8067	81.3948	.	-0.5		.	1.0	.	10	50	7	11600	16	1250	-5	-5	12	989	10		20	-50	-2	10	24
806	CL039	35.8114	81.4273	.	-0.5		.	1.3	.	6	45	5	12000	14	1550	-5	15	6	1340	10		-5	-50	2	250	17
807	CL040	35.8412	81.3852	.	-0.5		.	1.2	.	9	40	8	10800	15	1500	-5	-5	12	668	10		5	-50	3	15	28
808	CL041	35.8482	81.4482	.	-0.5		.	1.7	.	9	6	7	8400	15	2050	-5	10	13	1640	10		-5	-50	3	240	25
809	CL042	35.8791	81.4883	.	0.5		.	1.7	.	11	6	11	11200	11	1500	6	-5	19	1100	25		-5	-50	2	35	34
810	CL043	35.8364	81.5195	.	-0.5		.	0.9	.	6	5	4	4000	9	1800	-5	5	10	1430	10		5	-50	2	205	14
811	CL044	35.8202	81.5569	.	0.5		.	1.0	.	6	15	4	4000	8	850	-5	60	14	1560	15		5	-50	2	300	13
812	CL045	35.8168	81.5753	.	-0.5		.	1.0	.	9	10	5	6066	8	1900	-5	5	12	1420	10		5	-50	15	150	18
813	CL046	35.7889	81.5574	.	-0.5		.	1.2	.	11	15	9	6400	15	2000	-5	-5	16	925	20		-5	-50	15	15	24
814	CL047	35.7802	81.5516	.	-0.5		.	1.3	.	10	5	6	6200	12	2300	-5	-5	12	1290	15		5	-50	15	35	19
815	CL048	35.7905	81.5056	.	-0.5		.	1.1	.	9	-5	6	6800	13	3000	-5	10	11	1970	10		20	-50	2	220	21
816	CL049	35.7915	81.4651	.	-0.5		.	1.2	.	14	10	6	13400	18	1700	-5	-5	22	903	20		40	-50	-2	15	28
817	CL050	35.7986	81.5006	.	-0.5		.	1.4	.	20	15	12	8000	12	2100	6	.	24	1210	20		5	-50	15	30	36
818	CL051	35.8594	81.5819	.	0.5		.	1.2	.	7	-5	7	8600	5	1850	-5	-5	8	489	-10		-5	-50	-2	10	15
819	CL052	35.8408	81.5933	.	2.0		.	1.2	.	20	12	12	10600	5	1850	-5	-5	20	571	20		-5	59	2	10	24
820	CL053	35.9173	81.5751	.	0.5		.	1.3	.	11	-5	8	16600	14	4200	-5	-5	12	-20	10		10	61	-2	30	40
821	CL054	35.9392	81.5551	.	0.5		.	1.6	.	14	11	12	13800	10	4000	-5	-5	14	85	10		-5	82	-2	30	40
827	CL060	35.9853	81.5769	.	-0.5		.	0.8	.	6	-5	5	14000	8	3000	-5	-5	7	-20	-10		-5	84	-2	35	19
828	CL061	35.9686	81.5967	.	-0.5		.	1.1	.	9	-5	7	20400	12	3600	-5	-5	12	29	15		-5	86	-2	-5	28
829	CL062	35.9683	81.6159	.	-0.5		.	1.0	.	6	-5	6	7400	8	3700	-5	-5	13	-20	-10		-5	90	-2	15	20
839	CL072	35.9673	81.6334	.	-0.5		.	1.3	.	8	-5	6	16000	7	3700	-5	-5	13	-20	-10		-5	110	-2	15	28
840	CL073	35.9217	81.6352	.	-0.5		.	1.2	.	12	5	12	8800	10	4400	-5	40	11	275	10		20	-50	-2	30	33
841	CL074	35.9338	81.6564	.	-0.5		.	1.2	.	11	-5	6	14800	10	3800	-5	-5	10	79	-10		-5	122	-2	10	26
842	CL075	35.9312	81.6826	.	-0.5		.	1.9	.	8	-5	5	19600	9	3250	-5	-5	6	75	10		-5	102	-2	5	46
843	CL076	35.9445	81.7010	.	-0.5		.	1.2	.	7	-5	4	13600	6	3600	-5	-5	7	264	10		-5	156	-2	20	31
844	CL077	35.9652	81.7090	.	-0.5		.	2.3	.	12	-5	5	18400	11	3450	-5	5	8	257	15		-5	156	-2	55	75
850	CL083	35.9979	81.6844	.	-0.5		.	2.5	.	14	-5	5	13400	11	4450	-5	-5	11	746	15		-5	289	-2	15	67
851	CL084	35.9502	81.6767	.	-0.5		.	2.4	.	11	-5	5	20600	7	3250	-5	-5	9	-20	10		-5	77	-2	30	66
914	CT001	35.5833	81.5115	.	-0.5		.	1.1	.	14	10	9	11000	20	5500	-5	-5	21	242	10		15	-50	-2	-5	34
915	CT002	35.5914	81.4912	.	-0.5		.	0.6	.	7	12	6	5200	9	2350	-5	-5	9	431	10		-5	-50	-2	20	14
916	CT003	35.6175	81.4755	.	-0.5		.	0.8	.	8	6	6	9000	11	3300	7	-5	14	246	-10		-5	-50	-2	15	20

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
917	CT004	35.6360	81.4424	.	-0.5		.	1.0	.	8	6	5	12600	14	3300	-5	-5	9	64	-10		-5	-50	-2	10	22
918	CT005	35.5885	81.4424	.	-0.5		.	0.6	.	8	10	5	3800	6	2300	-5	-5	8	-20	-10		-5	-50	4	10	13
919	CT006	35.5950	81.4149	.	0.5		.	1.5	.	12	19	15	6400	18	2850	-5	-5	15	64	10		-5	-50	4	5	23
920	CT007	35.6017	81.3815	.	-0.5		.	1.5	.	9	21	8	9600	19	3750	5	-5	15	357	10		-5	-50	4	45	25
921	CT008	35.5672	81.3984	.	-0.5		.	1.0	.	9	28	6	7400	9	3150	-5	-5	15	210	10		-5	-50	3	35	23
922	CT009	35.5694	81.3283	.	-0.5		.	1.2	.	16	13	14	8000	9	4200	-5	-5	14	82	10		-5	-50	-2	5	32
923	CT010	35.5929	81.3489	.	-0.5		.	0.9	.	10	30	11	7800	8	3800	-5	-5	9	271	-10		-5	-50	2	35	35
924	CT011	35.5914	81.3211	.	-0.5		.	0.8	.	12	11	12	6600	6	5300	6	20	12	250	-10		-5	53	-2	40	25
925	CT012	35.5943	81.2970	.	0.5		.	1.0	.	13	8	13	5200	-5	10500	-5	-5	11	307	-10		-5	65	-2	45	21
926	CT013	35.6125	81.2887	.	0.5		.	0.9	.	9	-5	8	6000	-5	5500	-5	-5	9	-20	-10		-5	-50	-2	5	14
927	CT014	35.6028	81.3511	.	-0.5		.	0.8	.	10	17	9	4400	6	3700	-5	5	7	-20	-10		-5	-50	3	50	15
928	CT015	35.6453	81.2885	.	-0.5		.	0.8	.	8	-5	8	3400	-5	6250	-5	5	7	-20	-10		30	53	-2	60	12
929	CT016	35.6519	81.3808	.	-0.5		.	1.1	.	7	7	4	11800	5	4650	-5	-5	8	57	-10		-5	-50	-2	30	11
930	CT017	35.6732	81.4101	.	0.5		.	1.2	.	8	5	6	16200	6	4100	-5	-5	12	36	-10		-5	-50	-2	5	26
931	CT018	35.6622	81.3644	.	-0.5		.	0.6	.	10	5	10	5800	5	3700	-5	-5	10	64	10		-5	-50	-2	25	24
932	CT019	35.6653	81.2977	.	-0.5		.	0.7	.	9	-5	8	8200	5	4450	-5	-5	9	157	-10		30	65	-2	20	17
933	CT020	35.6633	81.2531	.	0.5		.	1.1	.	14	11	15	11400	11	5800	-5	-5	14	421	15		10	-50	2	5	46
934	CT021	35.6851	81.2536	.	-0.5		.	0.9	.	19	163	15	8400	7	5600	-5	30	16	431	15		55	67	-2	15	42
935	CT022	35.7002	81.3207	.	-0.5		.	1.2	.	24	6	26	15200	15	7000	-5	-5	23	268	25		-5	-50	-2	5	90
936	CT023	35.7079	81.2977	.	-0.5		.	1.5	.	25	7	28	14000	13	6500	-5	-5	26	300	20		15	-50	-2	5	75
937	CT024	35.7287	81.2801	.	-0.5		.	1.3	.	15	6	9	16000	26	6750	-5	-5	15	346	25		-5	-50	-2	5	77
938	CT025	35.7348	81.2579	.	0.5		.	1.4	.	24	15	17	10800	27	6300	-5	-5	24	139	20		-5	-50	2	-5	53
939	CT026	35.7528	81.2581	.	0.5		.	1.2	.	12	12	22	5200	18	3000	-5	-5	14	43	25		-5	-50	3	15	31
940	CT027	35.7507	81.2171	.	-0.5		.	0.5	.	8	20	10	13000	9	4200	-5	5	9	1356	10		-5	-50	-2	75	17
941	CT028	35.7666	81.2887	.	-0.5		.	0.6	.	10	22	8	8200	8	2300	-5	-5	8	221	15		10	-50	2	15	27
942	CT029	35.7834	81.3092	.	-0.5		.	0.8	.	18	18	10	9400	12	3100	-5	10	14	1599	20		-5	-50	2	205	34
943	CT030	35.7881	81.2538	.	-0.5		.	0.8	.	11	19	8	5000	11	2850	-5	-5	8	143	15		5	-50	4	5	22
944	CT031	35.8057	81.1982	.	-0.5		.	0.5	.	5	23	6	5200	6	1900	-5	15	5	328	-10		-5	-50	-2	5	17
945	CT032	35.7820	81.2133	.	-0.5		.	1.0	.	10	15	6	15000	14	4500	-5	20	8	632	10		10	-50	-2	-5	25
946	CT034	35.7655	81.1911	.	-0.5		.	1.0	.	20	13	12	16800	9	6400	-5	-5	12	450	20		-5	-50	-2	-5	40
947	CT035	35.7342	81.1911	.	-0.5		.	0.9	.	9	30	6	11000	6	3550	-5	10	5	1274	-10		25	-50	-2	30	17
948	CT036	35.7117	81.1885	.	0.5		.	1.2	.	17	10	13	5400	5	4500	-5	-5	10	-20	15		10	-50	4	-5	30
949	CT037	35.7983	81.1547	.	-0.5		.	1.0	.	8	11	6	19600	9	6000	-5	35	6	478	10		25	-50	-2	45	22
950	CT038	35.7923	81.1385	.	-0.5		.	1.0	.	14	21	17	13200	8	6500	-5	30	9	225	15		25	-50	-2	20	30

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
951	CT039	35.7668	81.1259	.	0.5		.	1.3	.	11	219	19	7200	6	3150	-5	30	9	-20	10		75	-50	4	10	28
952	CT040	35.7552	81.1651	.	-0.5		.	0.8	.	6	76	8	7600	-5	3500	-5	-5	5	-20	10		65	53	3	10	19
953	CT041	35.7348	81.1331	.	-0.5		.	1.0	.	13	14	8	12000	-5	2700	-5	-5	6	118	10		40	-50	2	-5	24
954	CT042	35.7236	81.1580	.	0.5		.	1.1	.	15	29	13	9000	-5	2600	-5	-5	13	260	10		90	-50	-2	20	33
955	CT043	35.7185	81.1164	.	-0.5		.	1.3	.	16	29	17	9800	9	3250	-5	-5	13	64	10		45	-50	2	-5	54
956	CT044	35.7101	81.0957	.	-0.5		.	1.4	.	10	13	8	12000	6	1900	-5	-5	7	-20	10		-5	-50	-2	-5	23
957	CT045	35.6974	81.1452	.	-0.5		.	1.3	.	11	11	12	9600	5	3000	-5	15	9	157	10		-5	-50	-2	-5	36
958	CT046	35.6749	81.1603	.	-0.5		.	0.9	.	15	8	10	10000	-5	3000	-5	15	9	203	10		35	62	-2	-5	33
959	CT047	35.6762	81.1333	.	-0.5		.	1.3	.	24	8	12	9800	8	1900	-5	.	20	743	20		-5	-50	-2	-5	28
960	CT048	35.6402	81.2022	.	-0.5		.	1.1	.	28	13	16	7600	-5	3000	-5	.	20	336	20		12	-50	-2	6	40
961	CT049	35.6042	81.2385	.	-0.5		.	1.2	.	10	8	9	5400	10	3350	-5	-5	6	1057	10		50	-50	-2	-5	20
962	CT050	35.5960	81.2063	.	-0.5		.	1.0	.	16	24	19	10400	5	4750	-5	-5	16	1581	10		25	53	-2	-5	43
963	CT051	35.5863	81.1900	.	-0.5		.	1.5	.	7	18	6	18000	21	1950	-5	30	5	1028	10		-5	-50	-2	130	17
964	CT052	35.5806	81.1686	.	0.5		.	1.5	.	10	10	6	24000	16	2050	-5	20	5	396	10		30	-50	-2	100	15
965	CT053	35.5624	81.1308	.	-0.5		.	1.7	.	10	75	8	8600	11	2550	-5	-5	7	753	10		5	-50	-2	-5	26
966	CT054	35.6193	81.1880	.	-0.5		.	0.8	.	10	22	8	5600	-5	2300	-5	-5	7	225	-10		15	-50	-2	5	15
967	CT055	35.6087	81.1475	.	0.5		.	2.3	.	7	19	7	16000	26	1950	-5	25	8	625	10		-5	-50	2	255	24
968	CT056	35.6425	81.1475	.	-0.5		.	1.5	.	14	17	11	10400	8	2800	-5	10	13	418	10		40	56	4	30	27
969	CT057	35.6707	81.0938	.	-0.5		.	1.4	.	6	18	4	10800	18	1250	-5	10	5	321	10		15	-50	5	155	9
970	CT058	35.6942	81.0652	.	-0.5		.	1.1	.	9	25	6	5800	10	2650	-5	-5	7	32	10		40	-50	-2	5	15
971	CT059	35.6787	81.0393	.	-0.5		.	1.5	.	8	8	8	19000	10	2350	-5	-5	8	271	10		50	77	-2	10	25
973	CT061	35.6470	81.0677	.	-0.5		.	0.7	.	7	12	7	2600	5	2150	-5	-5	6	318	-10		50	-50	-2	25	14
974	CT062	35.6259	81.1065	.	1.0		.	2.8	.	12	13	12	14800	30	1950	-5	25	10	328	20		10	-50	2	80	28
975	CT063	35.6254	81.0549	.	-0.5		.	1.2	.	9	23	9	4400	10	3500	-5	-5	7	-20	10		-5	-50	-2	10	17
976	CT064	35.6107	81.0607	.	-0.5		.	1.1	.	16	11	11	3400	8	4050	-5	-5	9	439	10		-5	-50	-2	25	20
977	CT065	35.5984	81.0948	.	-0.5		.	2.6	.	21	17	18	8400	19	2500	-5	-5	19	439	15		-5	-50	5	-5	49
978	CT066	35.5888	81.0774	.	-0.5		.	1.1	.	9	12	9	4400	8	2200	-5	5	6	136	10		10	-50	-2	35	18
979	CT067	35.5754	81.0632	.	-0.5		.	1.0	.	6	9	7	14800	12	2100	-5	-5	6	382	10		-5	-50	-2	40	17
980	CT068	35.5691	81.0353	.	-0.5		.	0.8	.	10	10	5	30000	6	2150	-5	-5	7	450	10		-5	175	-2	-5	15
981	CT070	35.6227	81.0175	.	-0.5		.	0.9	.	-5	-5	3	20400	8	3450	-5	-5	-5	1142	-10		-5	203	-2	-5	22
982	CT071	35.6084	81.0017	.	-0.5		.	0.8	.	5	-5	4	19000	6	4500	-5	-5	5	443	-10		35	204	-2	-5	22
1033	CV002	35.5314	81.6852	.	-0.5		.	1.8	.	7	5	7	17200	48	4400	-5	-5	17	200	-10		25	-50	2	5	22
1034	CV003	35.5408	81.6421	.	-0.5		.	1.0	.	5	85	6	20600	18	3800	-5	-5	10	700	-10		-5	51	-2	5	32
1035	CV004	35.5445	81.6111	.	-0.5		.	0.7	.	7	9	6	7800	19	2350	-5	-5	10	764	-10		25	-50	2	-5	32

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
1036	CV005	35.5174	81.6499	.	-0.5		.	0.9	.	5	-5	6	12000	21	3700	-5	-5	10	478	-10		-5	-50	5	-5	24
1037	CV006	35.5231	81.6005	.	-0.5		.	0.8	.	5	8	5	8000	12	1450	-5	5	10	621	-10		70	-50	-2	5	24
1038	CV007	35.5399	81.5475	.	-0.5		.	0.5	.	-5	5	3	17400	11	1750	-5	5	5	425	-10		5	-50	-2	25	15
1039	CV008	35.5362	81.5202	.	-0.5		.	0.7	.	-5	14	5	21200	17	2150	-5	-5	5	992	10		15	-50	-2	5	24
1040	CV009	35.5118	81.5621	.	-0.5		.	0.6	.	5	47	4	8600	8	1000	-5	-5	-5	649	-10		15	-50	-2	45	17
1041	CV010	35.5132	81.5820	.	-0.5		.	-0.5	.	-5	16	4	8000	10	300	-5	-5	-5	458	-10		-5	-50	-2	15	15
2059	IR027	35.7261	81.0258	.	-0.5		.	2.0	.	5	15	8	9000	6	3800	-5	25	-5	4950	-10		-5	-50	2	45	22
2060	IR028	35.7470	81.0021	.	-0.5		.	1.0	.	7	29	6	14000	-5	1600	-5	30	-5	6150	-10		-5	-50	2	40	42
2108	IR075	35.7532	81.0816	.	-0.5		.	1.0	.	7	9	12	6000	-5	1900	5	100	7	4650	-10		-5	-50	-2	45	22
2109	IR076	35.7581	81.0425	.	-0.5		.	1.0	.	10	19	9	3000	-5	2100	5	10	-5	2550	-10		-5	-50	-2	30	15
2110	IR077	35.7758	81.0222	.	-0.5		.	1.0	.	7	11	10	6000	-5	1500	-5	50	5	4200	-10		5	-50	-2	35	22
2111	IR078	35.7982	81.0039	.	0.5		.	2.0	.	7	7	8	5000	-5	2300	-5	190	-5	2450	-10		-5	63	2	20	20
2112	IR079	35.8100	81.0027	.	0.5		.	2.0	.	5	8	9	6000	-5	2000	5	35	6	1750	-10		-5	-50	2	85	22
2128	IR095	35.8903	81.0165	.	-0.5		.	2.0	.	-5	13	4	13000	-5	1900	-5	-5	-5	3550	-10		-5	65	-2	110	7
2129	IR096	35.8550	81.0053	.	0.5		.	2.0	.	5	36	10	11000	-5	1600	-5	30	14	1900	-10		-5	-50	-2	35	37
2130	IR097	35.8300	81.0295	.	0.5		.	1.0	.	5	13	8	6000	-5	2000	5	20	8	3500	-10		-5	-50	-2	25	22
2131	IR098	35.7962	81.0633	.	0.5		.	2.0	.	7	11	11	6000	-5	1700	5	5	10	3050	-10		-5	70	-2	20	22
2322	LI001	35.5414	81.4440	.	-0.5		.	1.0	.	5	28	7	5000	-5	1300	5	-5	-5	3650	-10		-5	-50	-2	65	20
2323	LI002	35.5311	81.4988	.	-0.5		.	1.0	.	-5	26	5	4000	-5	1300	5	10	5	4150	-10		-5	-50	-2	45	17
2324	LI003	35.5271	81.4433	.	-0.5		.	2.0	.	7	22	16	7000	10	1400	5	-5	17	3800	-10		-5	-50	2	50	35
2332	LI011	35.5107	81.4092	.	-0.5		.	-0.5	.	7	26	7	5200	-5	1500	-5	5	19	1500	-10		-5	-50	-2	130	17
2333	LI012	35.5415	81.4003	.	-0.5		.	1.0	.	5	33	6	6200	-5	1300	-5	95	32	2500	-10		-5	-50	15	110	17
2334	LI013	35.5638	81.3418	.	-0.5		.	2.0	.	12	30	13	9200	-5	1400	-5	40	24	2450	-10		-5	-50	-2	55	27
2335	LI014	35.5470	81.3349	.	-0.5		.	1.0	.	10	19	9	5200	-5	1900	-5	125	31	1300	-10		-5	52	-2	25	15
2336	LI015	35.5122	81.3413	.	-0.5		.	-0.5	.	5	25	4	7200	-5	1500	-5	15	8	1175	-10		5	-50	-2	40	15
2344	LI023	35.5180	81.2780	.	-0.5		.	-0.5	.	5	10	4	17200	-5	800	-5	-5	58	2250	-10		-5	-50	-2	20	15
2345	LI024	35.5393	81.2856	.	-0.5		.	2.0	.	25	13	17	5200	-5	1400	-5	20	52	3550	-10		-5	-50	-2	55	35
2346	LI025	35.5504	81.2606	.	-0.5		.	2.0	.	15	15	17	3200	-5	1800	-5	40	48	3700	15		-5	-50	-2	30	35
2347	LI026	35.5387	81.2086	.	-0.5		.	3.0	.	12	21	8	8200	33	1500	-5	20	-5	3450	12		-5	-50	5	25	20
2348	LI027	35.5150	81.2366	.	-0.5		.	5.0	.	10	18	7	20200	73	1000	-5	20	12	3450	-10		-5	-50	10	20	27
2358	LI037	35.5165	81.1655	.	-0.5		.	5.0	.	5	11	3	24200	50	1200	-5	5	15	2850	-10		-5	-50	2	30	12
2359	LI038	35.5346	81.1497	.	-0.5		.	2.0	.	12	8	11	3200	-5	2400	-5	40	36	2350	-10		-5	61	-2	35	22
2360	LI039	35.5169	81.1330	.	-0.5		.	1.0	.	12	6	13	4200	-5	1100	-5	-5	9	2400	-10		-5	-50	-2	-5	25
2361	LI040	35.5174	81.0974	.	-0.5		.	-0.5	.	5	5	5	17200	-5	1100	-5	-5	51	1900	-10		-5	99	-2	25	15

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
2362	LI041	35.5268	81.0804	.	-0.5		.	1.0	.	5	6	4	19200	-5	1500	-5	10	19	2700	-10		-5	75	-2	20	20
2363	LI042	35.5362	81.0532	.	-0.5		.	1.0	.	5	5	5	22200	-5	1300	-5	-5	29	2750	-10		-5	97	-2	15	17
2364	LI043	35.5000	81.0135	.	-0.5		.	2.0	.	7	8	7	26200	-5	1700	5	-5	15	3200	-10		-5	185	-2	-5	25
2376	MC002	35.9007	81.9429	.	-0.5		.	3.0	.	5	9	6	17000	6	5600	-5	95	7	5550	-10		-5	173	-2	20	30
2377	MC003	35.8723	81.9418	.	-0.5		.	-0.5	.	-5	-5	-2	1000	-5	-200	-5	-5	-5	3350	-10		-5	-50	-2	-5	-5
2378	MC004	35.8506	81.9591	.	-0.5		.	1.0	.	5	-5	-2	17000	-5	600	5	-5	-5	1700	-10		-5	-50	-2	40	-5
2379	MC006	35.8305	81.9984	.	-0.5		.	1.0	.	12	10	-2	21000	-5	600	-5	20	-5	2400	-10		-5	-50	-2	5	12
2380	MC007	35.8492	81.9859	.	-0.5		.	3.0	.	12	-5	10	8000	-5	4000	-5	40	8	3550	-10		5	80	-2	5	30
2420	MC048	35.7528	81.9688	.	-0.5		.	1.0	.	-5	-5	-2	15000	-5	1000	-5	-5	-5	2150	-10		-5	84	-2	5	7
2421	MC049	35.7589	81.9628	.	-0.5		.	1.0	.	5	-5	2	12000	-5	900	-5	-5	-5	1450	-10		-5	54	-2	-5	10
2422	MC050	35.7607	81.9404	.	-0.5		.	1.0	.	-5	-5	-2	5000	-5	1200	-5	-5	-5	1900	-10		-5	-50	-2	-5	7
2423	MC051	35.7246	81.9252	.	-0.5		.	2.0	.	5	-5	-2	20000	-5	2000	-5	-5	-5	1650	-10		-5	74	-2	-5	15
2424	MC052	35.7117	81.9784	.	-0.5		.	2.0	.	5	-5	3	27000	-5	2800	-5	-5	8	1850	17		-5	151	-2	5	50
2425	MC053	35.7144	81.8780	.	-0.5		.	2.0	.	-5	7	-2	14000	-5	2200	-5	80	-5	2250	-10		-5	78	-2	80	25
2426	MC054	35.6891	81.8918	.	-0.5		.	2.0	.	7	-5	3	18000	7	1500	-5	35	-5	3000	-10		-5	99	-2	55	17
2427	MC055	35.6946	81.9149	.	-0.5		.	2.0	.	7	-5	4	19000	10	1800	5	20	-5	3350	-10		-5	88	-2	75	22
2428	MC056	35.6838	81.9316	.	-0.5		.	2.0	.	7	-5	5	10000	6	1300	-5	25	-5	1800	-10		-5	-50	-2	60	20
2429	MC057	35.6572	81.9154	.	-0.5		.	1.0	.	7	-5	13	3000	-5	1700	-5	-5	-5	1800	-10		-5	-50	-2	40	20
2430	MC058	35.6315	81.9427	.	-0.5		.	1.0	.	5	-5	3	12000	-5	3200	-5	-5	-5	1250	-10		-5	-50	-2	5	10
2431	MC059	35.6583	81.9488	.	-0.5		.	2.0	.	7	-5	4	21000	15	2000	5	40	-5	1900	-10		-5	-50	-2	115	27
2432	MC060	35.6588	81.9720	.	0.5		.	3.0	.	10	-5	7	21000	-5	2000	-5	5	-5	3050	12		-5	90	2	-5	52
2434	MC062	35.6254	81.9933	.	-0.5		.	2.0	.	17	-5	9	15000	10	1600	-5	10	8	2250	-10		-5	-50	2	105	45
2435	MC063	35.6073	81.9963	.	-0.5		.	3.0	.	7	17	7	14000	15	2900	5	5	-5	3400	-10		-5	52	2	180	25
2444	MC072	35.5528	81.9706	.	-0.5		.	3.0	.	7	-5	20	7000	-5	1700	-5	10	-5	3600	-10		-5	-50	5	45	30
2445	MC073	35.5611	81.9238	.	-0.5		.	2.0	.	5	-5	4	18000	-5	1400	-5	-5	-5	2900	-10		-5	-50	-2	130	10
2446	MC074	35.5605	81.8530	.	-0.5		.	2.0	.	5	-5	5	11000	-5	2200	5	-5	-5	2550	-10		-5	153	-2	20	12
2447	MC075	35.5772	81.8625	.	-0.5		.	2.0	.	10	-5	5	15000	-5	2300	5	-5	-5	3850	-10		-5	119	2	30	15
2448	MC076	35.5858	81.8913	.	-0.5		.	1.0	.	7	-5	5	16000	-5	1000	-5	-5	-5	2200	-10		5	71	-2	80	10
2449	MC077	35.5991	81.8544	.	-0.5		.	2.0	.	5	8	3	13000	-5	1400	-5	-5	-5	2850	-10		-5	86	2	70	12
2450	MC078	35.6099	81.8874	.	-0.5		.	1.0	.	5	-5	3	6000	-5	3100	5	-5	-5	2650	-10		5	-50	-2	135	10
2451	MC079	35.6228	81.8500	.	-0.5		.	2.0	.	5	-5	6	13000	-5	1900	-5	-5	-5	3200	-10		5	102	-2	40	12
2452	MC080	35.6407	81.8709	.	-0.5		.	1.0	.	5	-5	8	7000	-5	1900	5	-5	-5	3300	-10		-5	-50	2	185	15
2453	MC081	35.5963	81.9589	.	-0.5		.	2.0	.	7	-5	3	11000	-5	5600	5	-5	-5	4300	-10		-5	-50	-2	50	15
3405	RU052	35.5585	81.7343	.	0.5		.	1.0	.	6	6	10	7700	5	500	5	5	18	1000	17		10	-50	2	50	23

HICKORY 100K QUAD - SUPPLEMENTARY STREAM SEDIMENTS

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
3406	RU053	35.5419	81.7726	.	-0.5		.	2.0	.	11	7	10	13700	6	600	-5	-5	20	1100	12		15	-50	2	55	39
3407	RU054	35.5572	81.8158	.	-0.5		.	2.0	.	23	38	23	8700	-5	1200	.	.	147	1700	35		.	-50	.		40
3420	RU067	35.5273	81.7046	.	-0.5		.	1.0	.	7	-5	6	21700	9	500	-5	-5	23	400	10		5	-50	2	65	28
3421	RU068	35.5523	81.6943	.	-0.5		.	2.0	.	6	15	9	16700	9	500	-5	10	14	1100	12		10	-50	4	15	35
3422	RU069	35.5282	81.7260	.	-0.5		.	2.0	.	7	5	6	22700	8	600	-5	15	15	900	25		-5	-50	2	35	36
3423	RU070	35.5065	81.7916	.	-0.5		.	1.0	.	8	-5	13	8700	-5	500	-5	-5	12	1100	10		-5	-50	-2	30	26
3424	RU071	35.5390	81.8039	.	-0.5		.	2.0	.	7	-5	11	8700	-5	800	-5	-5	21	1000	12		-5	64	-2	10	24
3425	RU072	35.5220	81.8523	.	0.5		.	2.0	.	11	-5	9	13000	-5	2500	5	-5	11	2700	-10		-5	77	-2	15	32
3428	RU075	35.5271	81.8870	.	-0.5		.	1.5	.	10	-5	9	11000	-5	3000	-5	25	11	3800	12		-5	90	-2	365	39
3432	RU092	35.5142	81.9709	.	-0.5		.	1.5	.	7	-5	8	14000	5	3550	-5	30	9	3100	12		-5	58	-2	85	28

HICKORY 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 x 1000	Al ppb	Dy ppb
1	AE501	35.9207	81.3118	5.9	12	0.048	22	4400	.	.	4	M	-0.1	4.0	38	-0.001
2	AE502	35.9198	81.2505	5.9	30	0.023	11	4600	42	920	6	M	0.3	0.7	23	-0.001
3	AE503	35.9221	81.1999	5.4	11	0.018	15	4100	26	250	23	1080	0.1	1.6	19	0.020
4	AE504	35.8256	81.3070	6.6	47	0.015	29	7000	.	930	22	3230	-0.1	0.3	17	0.130
5	AE505	35.8806	81.3127	6.4	52	0.020	45	M	.	3010	.	M	0.3	0.3	40	-0.001
6	AE506	35.9711	81.2841	6.0	17	0.014	14	4700	.	480	8	1660	0.1	0.8	82	-0.001
7	AE507	35.9629	81.2405	6.3	20	0.024	28	4900	.	540	4	1510	0.3	1.2	18	0.010
10	AE510	35.9665	81.1927	5.8	16	0.009	.	4400	.	.	14	480	-0.1	0.5	18	0.110
11	AE511	35.9608	81.1352	5.7	20	0.009	25	4900	.	.	10	1750	-0.1	0.4	28	-0.001
15	AE515	35.9678	81.0244	5.9	21	0.029	8	5300	.	1130	27	1310	0.5	1.3	493	-0.001
16	AE516	35.9192	81.0880	6.0	22	0.015	15	5800	.	460	5	2320	0.2	0.6	31	-0.001
17	AE517	35.9221	81.0284	7.2	74	0.031	21	5300	53	1930	45	5380	0.6	0.4	13	-0.001
18	AE518	35.9645	81.0867	6.2	36	0.183	35	5100	.	.	27	3230	-0.1	5.0	16	-0.001
19	AE519	35.9107	81.1402	6.0	20	0.026	26	M	.	M	5	M	-0.1	1.3	11	-0.001
20	AE520	35.8732	81.0846	6.7	61	0.016	18	4600	51	1340	56	5870	-0.1	0.2	13	-0.001
21	AE521	35.8250	81.0903	6.6	70	0.071	.	12100	.	.	7	M	-0.1	1.0	23	-0.001
22	AE522	35.8744	81.1407	6.2	64	0.050	.	7000	.	2630	35	4200	-0.1	0.7	260	0.080
23	AE523	35.8751	81.1909	6.6	30	0.074	22	5200	.	.	4	M	-0.1	2.4	42	-0.001
24	AE524	35.8346	81.2027	6.0	30	0.030	32	5100	27	.	12	1460	-0.1	1.0	19	-0.001
25	AE525	35.8820	81.2590	5.8	10	0.021	.	4200	22	.	5	860	-0.1	2.1	30	-0.001
26	AE526	35.8339	81.2563	5.4	33	0.034	.	7300	.	.	18	4370	-0.1	1.0	65	0.080
200	AV508	35.9576	81.9718	6.2	38	0.028	48	6700	49	2850	.	M	0.2	0.7	36	0.380
220	AV528	35.9802	81.9597	6.0	108	-0.002	37	47900	.	.	.	6950	0.4	0.0	37	-0.001
348	BK501	35.7517	81.6539	5.9	38	0.023	64	14000	.	800	37	12280	-0.1	0.6	25	-0.001
349	BK502	35.7441	81.5981	6.1	18	0.016	13	4400	24	.	12	800	-0.1	0.8	29	-0.001
350	BK503	35.7373	81.5403	5.7	14	0.020	26	4700	.	330	20	770	-0.1	1.4	31	-0.001
351	BK504	35.7513	81.4943	6.7	38	0.118	.	5100	.	420	4	2130	-0.1	3.1	1979	-0.001
352	BK505	35.7497	81.4444	6.0	64	0.039	32	6700	40	3160	5	3040	-0.1	0.6	47	-0.001
353	BK506	35.7055	81.4377	5.8	23	0.028	32	5300	.	.	11	2060	-0.1	1.2	97	0.130
354	BK507	35.7046	81.4875	5.9	20	0.025	29	5100	8	240	12	1350	-0.1	1.2	46	-0.001
355	BK508	35.6596	81.4971	5.8	35	0.026	5	6500	.	350	17	M	-0.1	0.7	37	-0.001
356	BK509	35.7024	81.5570	5.9	27	0.017	23	M	.	M	9	M	-0.1	0.6	27	-0.001
357	BK510	35.6061	81.5442	6.3	32	0.055	15	4700	.	1800	13	890	0.3	1.7	270	-0.001
358	BK511	35.5686	81.5490	6.5	51	0.057	18	4300	.	.	16	1290	0.5	1.1	84	0.160

HICKORY 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 x 1000	Al ppb	Dy ppb
359	BK512	35.6115	81.6056	6.2	21	0.031	11	4400	9	.	12	M	-0.1	1.4	71	-0.001
360	BK513	35.6437	81.5593	5.5	18	0.028	17	5500	.	.	17	2740	-0.1	1.5	92	-0.001
361	BK514	35.6562	81.6108	5.9	61	0.029	.	7400	.	3040	25	3360	0.3	0.4	285	-0.001
362	BK515	35.6443	81.6842	6.4	28	0.032	18	4800	13	740	5	2910	-0.1	1.1	151	0.030
363	BK516	35.6390	81.6646	6.2	17	0.044	10	4700	31	.	19	1320	0.2	2.5	103	0.040
364	BK517	35.6658	81.6495	6.0	14	0.026	.	M	.	M	6	M	-0.1	1.8	29	0.030
365	BK518	35.6941	81.6120	6.7	49	0.107	8	4400	35	2760	7	4120	0.4	2.1	25	-0.001
366	BK519	35.7011	81.6735	6.2	21	0.033	.	4700	30	520	7	950	0.6	1.5	147	-0.001
367	BK520	35.7017	81.7246	6.5	29	0.034	.	4500	.	1580	.	1110	0.3	1.1	48	-0.001
368	BK521	35.6583	81.7188	7.0	16	0.030	.	4700	22	.	7	1510	0.4	1.8	90	0.020
369	BK522	35.6513	81.7840	6.4	33	0.081	.	4500	10	950	12	1250	0.2	2.4	44	-0.001
370	BK523	35.6081	81.7875	6.4	60	0.023	35	5500	.	2340	17	3970	0.1	0.3	35	-0.001
371	BK524	35.6110	81.8278	6.7	50	0.067	.	4700	.	2420	5	3170	1.5	1.3	26	-0.001
372	BK525	35.6591	81.8335	6.3	20	0.026	21	4300	.	.	7	1930	0.2	1.3	29	-0.001
373	BK526	35.7054	81.8317	6.5	31	0.021	15	4800	.	1030	14	3510	-0.1	0.6	26	-0.001
374	BK527	35.7056	81.7729	6.2	24	0.053	.	4600	43	.	16	3520	1.1	2.2	29	-0.001
375	BK528	35.7527	81.7645	7.0	216	0.048	.	48600	.	.	10	34740	-0.1	0.2	621	-0.001
376	BK529	35.7489	81.7177	7.0	80	0.036	33	5300	42	3640	5	4600	1.6	0.4	25	0.040
377	BK530	35.7908	81.7198	6.6	27	0.009	.	4600	61	1430	.	2570	1.0	0.3	47	-0.001
378	BK531	35.7949	81.6651	7.0	38	0.029	11	3900	.	.	8	1180	0.7	0.7	40	-0.001
379	BK532	35.7981	81.5996	5.5	13	0.019	15	4900	.	810	42	690	0.1	1.4	36	-0.001
380	BK533	35.8428	81.6648	6.1	28	0.025	36	4400	18	840	11	1200	-0.1	0.8	24	-0.001
381	BK534	35.8382	81.7202	6.3	34	0.025	.	4200	36	1090	8	5270	0.9	0.7	23	-0.001
382	BK535	35.8010	81.7749	6.4	70	0.018	.	9800	.	980	2	3590	0.2	0.2	26	-0.001
383	BK536	35.7905	81.8324	6.8	56	0.036	12	4400	16	3100	.	720	0.2	0.6	30	-0.001
384	BK537	35.7520	81.8267	6.3	38	0.020	20	4300	38	.	28	3540	-0.1	0.5	65	-0.001
385	BK538	35.7465	81.8889	6.1	16	0.020	18	4100	70	.	9	M	0.2	1.2	31	0.100
386	BK539	35.7898	81.9229	5.8	12	0.029	23	3600	.	310	9	650	-0.1	2.4	27	-0.001
387	BK540	35.7947	81.8955	6.1	21	0.037	25	3800	20	720	.	1780	0.3	1.7	121	-0.001
388	BK541	35.8199	81.8584	7.7	70	0.235	26	4300	51	2270	9	4100	0.1	3.3	29	-0.001
389	BK542	35.8512	81.8185	6.2	39	0.022	.	4900	12	.	6	2070	0.3	0.5	23	-0.001
390	BK543	35.8326	81.7825	6.5	48	0.026	.	4000	38	1360	.	2270	1.3	0.5	40	-0.001
391	BK544	35.8772	81.7729	6.6	40	0.025	.	4000	.	880	14	1020	-0.1	0.6	27	-0.001
392	BK545	35.8673	81.7328	6.0	372	0.013	53	52100	.	6610	47	40910	-0.1	0.0	21	0.120

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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 x 1000	Al ppb	Dy ppb
393	BK546	35.8934	81.8048	6.4	38	0.025	10	4200	.	1330	72	2390	-0.1	0.6	26	-0.001
394	BK547	35.9465	81.8805	6.6	7	0.020	13	3700	13	210	.	1030	-0.1	2.8	27	-0.001
395	BK548	35.9756	81.8919	4.9	8	0.014	19	3800	.	.	.	590	-0.1	1.7	22	-0.001
1095	CL502	35.9884	81.7588	7.1	10	0.037	.	4900	.	.	.	1390	-0.1	3.7	51	-0.001
1096	CL503	35.9423	81.7469	7.1	12	0.025	16	5000	13	290	.	1960	-0.1	2.0	38	-0.001
1097	CL504	35.9447	81.6417	6.5	27	0.034	.	4100	.	500	10	3850	0.3	1.2	24	0.030
1098	CL505	35.9549	81.5811	7.0	60	0.092	.	8900	.	3830	60	5650	1.5	1.5	1232	1.040
1099	CL506	35.7838	81.4161	6.1	60	0.106	19	5400	43	4560	.	6140	2.1	1.7	18	-0.001
1100	CL507	35.8144	81.4794	6.0	18	0.052	.	5200	.	.	10	1030	1.0	2.8	863	0.100
1101	CL508	35.8177	81.5219	6.1	22	0.031	.	5900	.	.	15	1430	-0.1	1.4	509	-0.001
1102	CL509	35.8117	81.5753	7.0	62	0.078	11	5500	25	950	12	1120	0.1	1.2	45	-0.001
1103	CL510	35.8589	81.5250	5.7	48	0.049	15	6700	.	.	395	4540	0.3	1.0	336	2.350
1104	CL511	35.8604	81.5818	6.6	62	0.098	21	5200	.	4190	.	5910	1.7	1.5	36	0.050
1105	CL512	35.8604	81.6309	6.6	42	0.017	.	5400	44	1820	.	4730	2.0	0.4	19	-0.001
1106	CL513	35.9046	81.7039	6.0	56	0.024	44	8500	.	1830	5	3700	0.1	0.4	17	-0.001
1107	CL514	35.9067	81.6399	6.4	32	0.027	.	M	.	M	8	M	-0.1	0.8	23	-0.001
1108	CL515	35.9040	81.5811	6.9	60	1.003	8	4800	81	3730	4	6540	1.5	16.7	61	-0.001
1109	CL516	35.9463	81.7016	6.5	25	0.028	.	4400	19	440	3	2960	0.2	1.1	18	-0.001
1110	CL517	35.9985	81.6851	7.0	10	0.027	19	M	.	M	3	M	-0.1	2.7	48	0.080
1117	CL524	35.9965	81.6417	6.6	31	0.050	12	4600	49	230	10	2980	-0.1	1.6	25	-0.001
1118	CL525	35.9991	81.5710	7.3	72	0.053	11	4300	228	2090	28	4190	-0.1	0.7	17	-0.001
1126	CL533	35.9855	81.4653	7.2	57	0.955	13	4600	165	1610	11	5280	2.9	16.7	28	-0.001
1127	CL534	35.9522	81.5250	6.5	40	0.048	9	5500	37	250	3	1170	-0.1	1.2	314	0.110
1128	CL535	35.9496	81.4690	8.2	213	14.900	35	6900	146	3780	.	11810	4.1	69.9	29	-0.001
1129	CL536	35.9092	81.4622	6.0	44	0.083	.	6100	29	930	19	4110	0.2	1.8	73	-0.001
1130	CL537	35.9066	81.4109	6.1	30	0.031	.	5600	.	1620	11	1930	-0.1	1.0	30	-0.001
1131	CL538	35.7793	81.3666	5.4	38	0.042	.	8000	.	950	18	1950	-0.1	1.1	74	0.150
1132	CL539	35.8182	81.3587	6.0	30	0.022	.	4800	.	860	6	M	0.2	0.7	33	-0.001
1133	CL540	35.8650	81.3568	6.1	21	0.040	13	5600	.	.	.	2720	-0.1	1.9	202	-0.001
1134	CL541	35.8187	81.4030	6.0	17	0.018	23	5200	.	.	44	1160	-0.1	1.0	30	-0.001
1135	CL542	35.8617	81.4115	6.0	65	0.033	15	12100	.	.	39	9970	-0.1	0.5	211	0.130
1136	CL543	35.8639	81.4672	6.4	81	0.039	.	3600	86	1910	325	M	-0.1	0.4	30	-0.001
1137	CL544	35.8927	81.5142	4.4	70	0.042	.	11100	.	.	558	2640	0.5	0.6	1051	10.370
1138	CL545	35.9366	81.4002	6.0	28	0.020	.	5700	50	1400	14	2730	0.1	0.7	53	-0.001

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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 x 1000	Al ppb	Dy ppb
1139	CL546	35.9525	81.3629	5.8	15	0.045	.	5500	.	.	.	610	0.7	3.0	712	0.120
1140	CL547	35.9184	81.3512	5.9	15	0.020	13	5700	.	580	.	1410	0.2	1.3	67	0.030
1377	CT501	35.6702	81.3946	6.6	40	0.077	15	8000	.	520	14	3270	-0.1	1.9	25	-0.001
1378	CT502	35.6288	81.4460	6.1	39	0.019	28	M	.	M	9	M	-0.1	0.4	25	0.070
1379	CT503	35.5763	81.5032	6.4	32	0.045	.	4600	10	530	16	1280	0.4	1.4	198	-0.001
1380	CT504	35.5822	81.4455	6.5	29	0.021	.	4500	23	460	7	900	-0.1	0.7	27	0.040
1381	CT505	35.5823	81.3905	6.3	18	0.031	17	4700	.	.	9	1370	-0.1	1.7	30	-0.001
1382	CT506	35.6287	81.3955	6.8	61	0.018	20	4500	32	.	31	M	-0.1	0.3	23	-0.001
1383	CT507	35.6674	81.3347	7.8	110	0.103	.	3600	31	3930	.	M	-0.1	0.9	25	-0.001
1384	CT508	35.6254	81.3406	5.5	61	0.023	16	9300	.	2580	52	M	-0.1	0.3	61	0.470
1385	CT509	35.5803	81.3306	6.4	21	0.025	.	4700	14	630	9	1260	-0.1	1.1	26	-0.001
1386	CT510	35.5803	81.2689	6.5	43	0.025	36	6000	58	1330	9	2290	1.3	0.5	97	0.100
1387	CT511	35.6211	81.2786	7.0	48	0.026	.	4300	17	3270	.	2200	1.8	0.5	22	-0.001
1388	CT512	35.6669	81.2775	7.0	66	0.094	15	4800	.	1710	14	4440	1.3	1.4	24	-0.001
1389	CT513	35.6227	81.2205	6.2	46	0.026	39	6300	.	1540	3	1590	-0.1	0.5	30	-0.001
1390	CT514	35.5731	81.2237	6.3	62	0.028	23	10800	.	2630	53	5730	-0.1	0.4	29	-0.001
1391	CT515	35.5792	81.1669	7.1	60	0.170	25	5700	.	.	8	3020	1.5	2.8	42	-0.001
1392	CT516	35.5795	81.1052	6.7	45	0.021	.	5000	.	2890	.	1710	0.4	0.4	23	-0.001
1393	CT517	35.6245	81.1079	6.9	40	0.033	9	4500	79	1060	53	3020	-0.1	0.8	22	-0.001
1394	CT518	35.6217	81.1583	7.2	30	0.022	23	4600	8	.	8	1630	-0.1	0.7	42	-0.001
1395	CT519	35.6734	81.1100	6.4	38	0.092	.	5400	.	.	9	1900	-0.1	2.4	26	0.040
1396	CT520	35.6694	81.1629	7.4	160	0.219	.	8200	47	23530	.	4190	0.5	1.3	27	-0.001
1397	CT521	35.6670	81.2103	7.4	75	0.050	.	4500	154	2080	.	4240	6.7	0.6	25	-0.001
1398	CT522	35.7076	81.3277	6.7	41	0.060	20	4500	28	1540	.	3840	0.2	1.4	25	-0.001
1399	CT523	35.7124	81.3919	5.7	46	0.053	34	6500	.	810	17	3640	-0.1	1.1	26	0.130
1400	CT524	35.7593	81.2789	6.1	35	0.018	20	5200	.	850	11	1580	-0.1	0.5	75	-0.001
1401	CT525	35.7638	81.3390	7.4	111	0.973	21	5200	.	1430	36	5690	0.4	8.7	27	-0.001
1402	CT526	35.7142	81.2818	6.5	22	0.019	21	4800	23	.	13	810	0.2	0.8	101	-0.001
1403	CT527	35.7136	81.2365	7.1	42	0.036	.	5400	26	390	3	3270	4.7	0.8	27	0.060
1404	CT528	35.7588	81.2221	6.3	30	0.044	25	5200	.	280	2	3070	0.2	1.4	25	-0.001
1405	CT529	35.8084	81.2178	7.1	80	0.031	.	3800	.	1670	17	M	-0.1	0.3	23	-0.001
1406	CT530	35.8079	81.1604	7.1	48	0.050	32	4200	.	980	4	1800	2.9	1.0	26	-0.001
1407	CT531	35.7561	81.1090	6.9	49	0.054	.	4000	.	780	2	2230	0.8	1.1	33	-0.001
1408	CT532	35.7583	81.1701	5.7	42	0.066	36	7300	.	.	22	M	-0.1	1.5	30	-0.001

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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 x 1000	Al ppb	Dy ppb
1409	CT533	35.7112	81.1629	6.3	20	0.054	.	4600	26	980	.	820	0.2	2.7	27	-0.001
1410	CT534	35.7119	81.1048	6.6	32	0.024	22	4800	20	630	5	1620	0.4	0.7	26	-0.001
1411	CT535	35.6660	81.0507	7.4	42	0.038	29	4600	60	2080	.	1440	2.1	0.9	31	0.040
1412	CT536	35.6290	81.0468	6.7	122	0.034	.	11700	.	10220	.	4160	-0.1	0.2	24	-0.001
1417	CT541	35.5738	81.0410	5.6	42	0.033	.	8800	.	.	10	M	-0.1	0.7	39	-0.001
1568	CV524	35.5337	81.6820	5.5	20	0.035	26	7500	45	970	40	1260	-0.1	1.7	178	0.600
1569	CV525	35.5307	81.6115	5.9	32	0.027	6	4800	.	1280	38	2270	-0.1	0.8	30	-0.001
1580	CV536	35.5283	81.5572	5.7	35	0.032	33	6100	.	300	23	3530	-0.1	0.9	64	0.060
2766	IR504	35.8593	81.0303	6.7	65	0.030	27	4700	116	.	24	M	-0.1	0.4	34	-0.001
2813	IR551	35.7729	81.0231	6.6	56	0.039	25	5900	.	2040	12	3310	-0.1	0.7	35	-0.001
2814	IR552	35.8064	81.0301	7.2	70	0.065	36	4200	.	2380	32	4060	0.4	0.9	13	-0.001
2815	IR553	35.7677	81.0735	7.2	45	0.030	30	4300	.	1920	14	1510	1.3	0.6	19	-0.001
2816	IR554	35.7213	81.0266	7.1	58	0.030	.	5000	39	.	13	3250	2.8	0.5	14	-0.001
3013	LI501	35.5229	81.2820	7.4	40	0.107	20	4400	27	2930	.	4520	0.5	2.6	26	-0.001
3014	LI502	35.5278	81.2217	6.5	27	0.047	9	5300	33	.	18	M	-0.1	1.7	28	-0.001
3015	LI503	35.5293	81.1644	6.2	23	0.099	.	5300	.	490	6	2090	-0.1	4.3	26	0.060
3016	LI504	35.5286	81.1153	6.1	42	0.034	14	7100	.	920	22	5070	-0.1	0.8	198	0.100
3017	LI505	35.5367	81.0523	6.4	41	0.036	25	4400	70	1550	.	4920	1.9	0.8	32	-0.001
3034	LI522	35.5285	81.5026	5.5	22	0.024	34	7400	.	350	11	3440	-0.1	1.0	55	-0.001
3035	LI523	35.5255	81.4458	6.2	57	0.018	.	11100	.	3800	13	3410	-0.1	0.3	31	-0.001
3038	LI526	35.5266	81.3864	5.4	10	0.030	29	4800	.	.	10	M	-0.1	3.0	50	0.090
3039	LI527	35.5272	81.3357	6.6	76	0.044	11	6600	.	.	11	3570	0.9	0.5	340	0.410
3140	MC501	35.8638	81.9846	6.2	37	2.712	14	5700	20	1170	39	3550	0.3	73.3	18	-0.001
3141	MC502	35.8398	81.9717	6.0	29	0.057	18	5000	.	1580	.	980	-0.1	1.9	26	-0.001
3144	MC505	35.8773	81.9364	6.0	7	0.041	9	4900	.	.	7	430	-0.1	5.8	70	-0.001
3145	MC506	35.9174	81.9393	6.9	23	0.058	11	M	.	M	13	M	-0.1	2.5	52	-0.001
3167	MC528	35.5486	81.9659	6.3	51	0.036	9	4000	.	.	1	M	-0.1	0.7	21	-0.001
3168	MC529	35.5579	81.9313	5.5	78	0.010	.	M	.	M	41	M	-0.1	0.1	37	-0.001
3169	MC530	35.5997	81.9703	5.7	22	0.016	32	4500	21	800	22	2120	-0.1	0.7	36	-0.001
3170	MC531	35.7319	81.9857	6.9	69	0.024	34	4700	26	2320	31	3280	0.2	0.3	27	-0.001
3175	MC536	35.6965	81.9726	6.3	43	0.030	.	M	.	M	13	M	-0.1	0.7	27	-0.001
3176	MC537	35.7271	81.9241	6.3	32	0.017	.	4500	.	700	.	5020	0.6	0.5	28	-0.001
3177	MC538	35.6949	81.9154	5.8	48	0.071	.	6400	.	1490	12	970	0.5	1.4	438	0.060
3178	MC539	35.6539	81.9603	6.1	27	0.025	44	4900	39	1080	.	1870	0.5	0.9	30	0.030

HICKORY 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 x 1000	Al ppb	Dy ppb
3179	MC540	35.6454	81.9200	6.4	153	0.086	44	7700	63	10930	14	6000	0.2	0.5	24	-0.001
3180	MC541	35.6461	81.8618	5.6	77	0.024	.	10900	.	4010	41	4680	-0.1	0.3	27	-0.001
3181	MC542	35.6056	81.9045	5.9	36	0.051	45	7300	.	.	5	M	-0.1	1.4	36	-0.001
3182	MC543	35.5977	81.8607	6.7	65	0.124	30	5400	42	4080	.	4210	1.6	1.9	29	-0.001
3183	MC544	35.5540	81.8586	6.6	33	0.031	24	4600	.	920	.	3280	1.1	0.9	58	-0.001
4597	RU508	35.5323	81.7396	6.0	62	0.032	13	10300	.	2040	31	2750	-0.1	0.5	33	-0.001
4598	RU509	35.5326	81.7818	6.1	21	0.046	.	4600	.	510	4	1960	0.6	2.1	318	-0.001
4599	RU510	35.5587	81.8131	6.4	60	0.040	22	5700	.	2830	.	4030	0.4	0.6	25	-0.001
4600	RU511	35.5347	81.8277	6.0	49	0.043	10	4500	22	1470	.	1550	-0.1	0.8	25	-0.001
4601	RU512	35.5275	81.8929	6.7	50	0.048	16	4800	20	810	.	1670	0.4	0.9	26	-0.001
4613	RU524	35.5162	81.9945	7.7	88	0.028	.	4300	.	3250	.	3630	0.3	0.3	30	-0.001