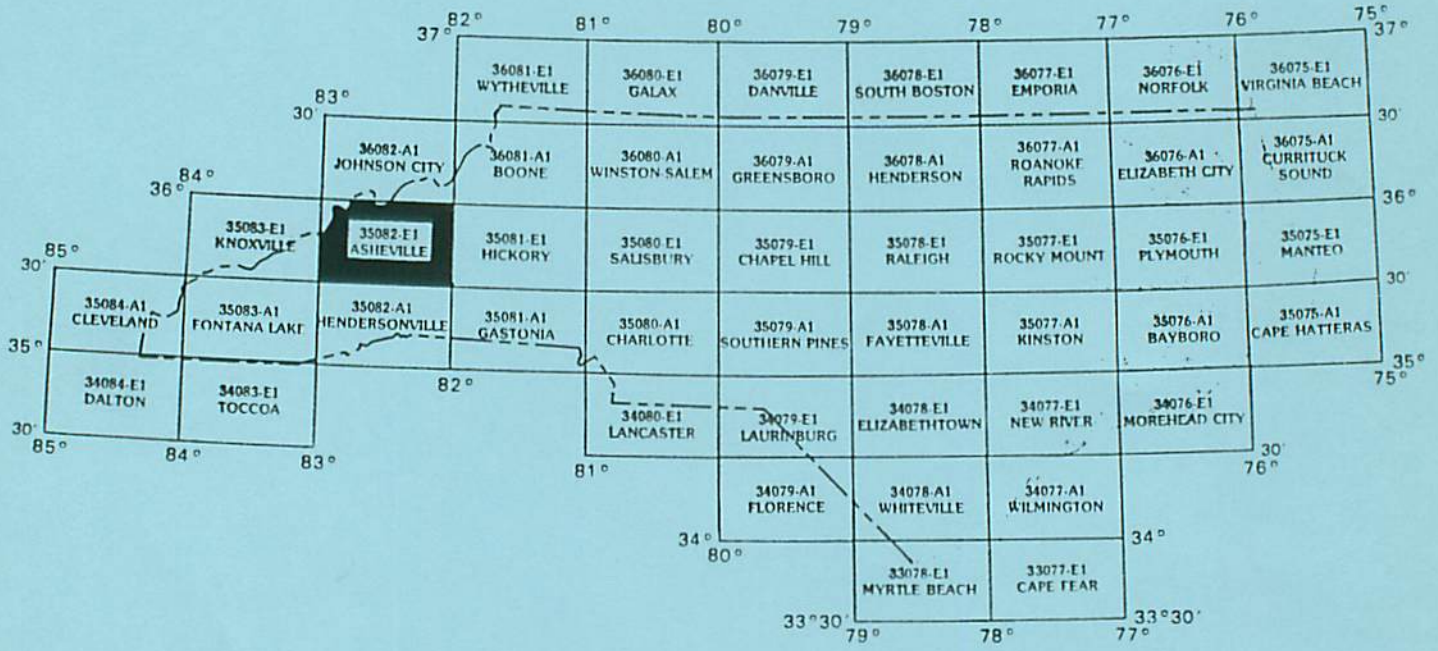
Listing of Concentrations of Variables of Stream Sediment, Stream Water, and Groundwater for the Asheville 30 x 60 - Minute Quadrangle -NURE Database

by
Robert H. Carpenter and Jeffrey C. Reid



NORTH CAROLINA GEOLOGICAL SURVEY
OPEN-FILE REPORT 93-7

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

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

July, 1993

GEOLOGICAL SURVEY SECTION

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

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

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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 Asheville 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
AV	Avery
BN	Buncombe
HY	Haywood
MC	McDowell
MD	Madison
MT	Mitchell
YN	Yancey

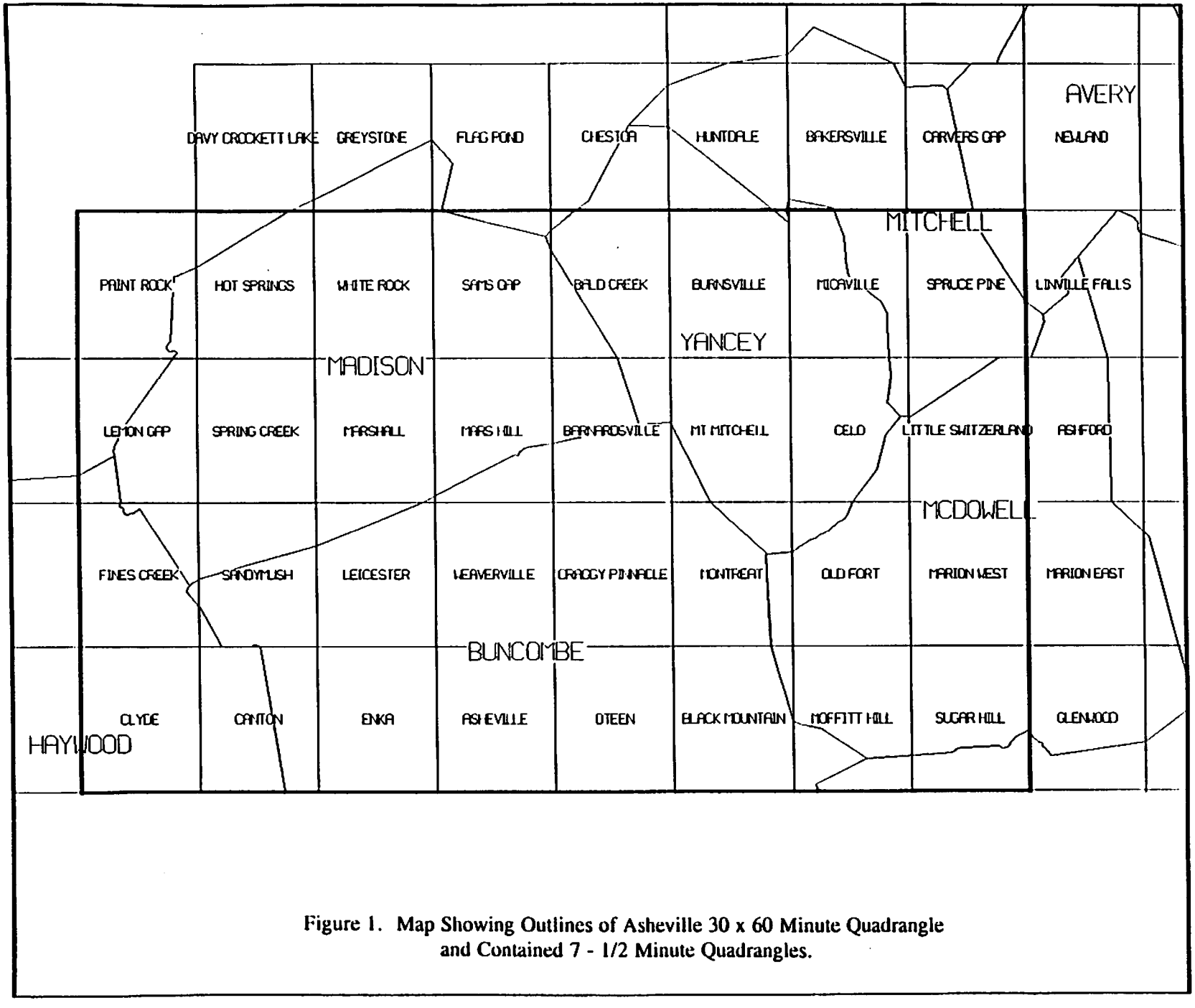


Figure 1. Map Showing Outlines of Asheville 30 x 60 Minute Quadrangle and Contained 7 - 1/2 Minute Quadrangles.

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

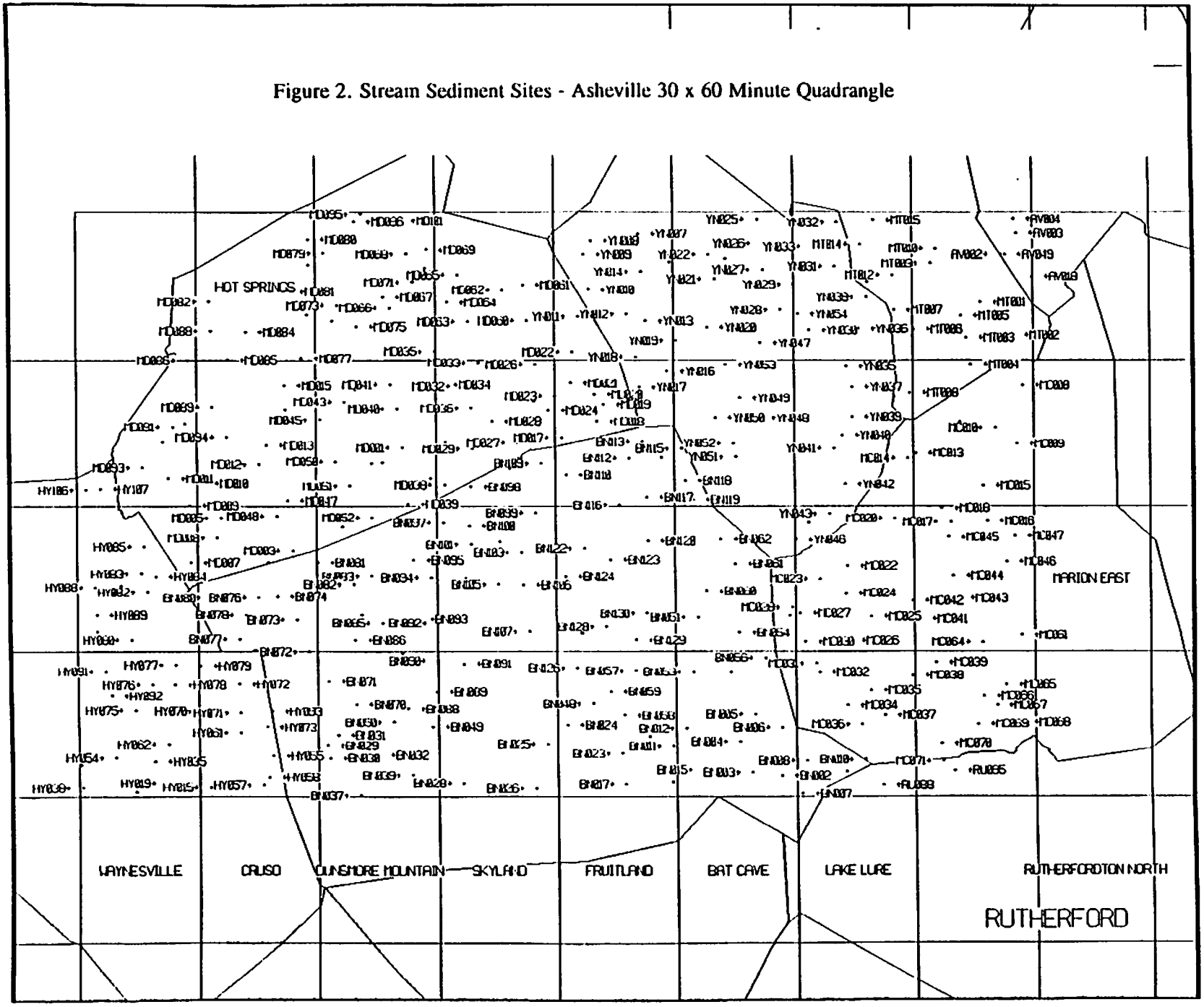
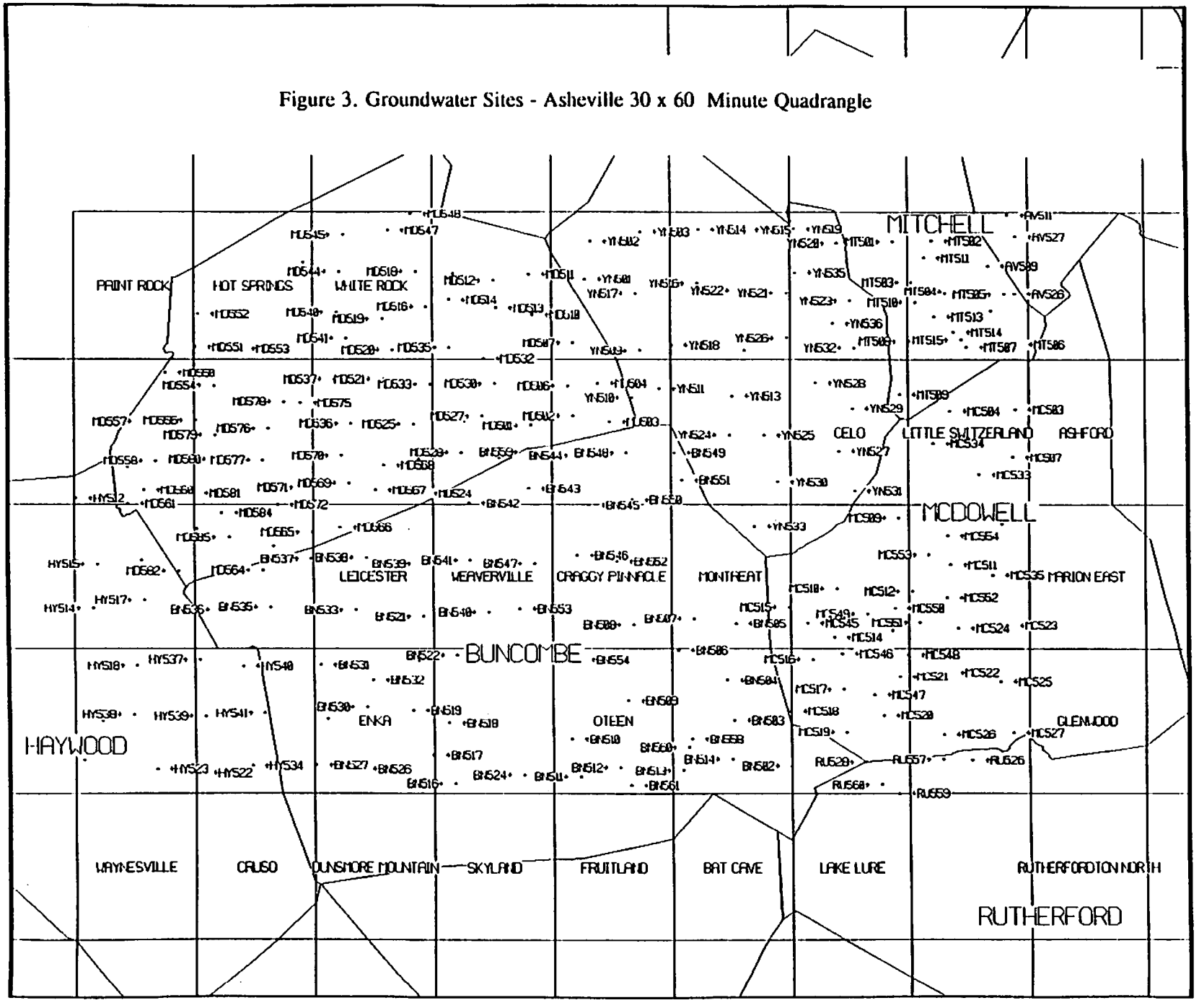


Figure 3. Groundwater Sites - Asheville 30 x 60 Minute Quadrangle



ASHEVILLE 100K SHEET - 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
327	AV002	35.9647	82.0334	7.4	19	2.9	9	30	40500	104	50400	680	10200	8.3	M	M	2.0	1.3	M	M	M	M	
328	AV003	35.9823	82.0165	7.7	18	1.8	-4	9	42300	-20	89200	900	20100	13.1	8500	340	1.2	1.3	M	M	M	M	
329	AV004	35.9941	82.0193	7.5	18	1.4	-5	13	45700	-26	69100	890	M	15.2	M	380	3.1	1.7	M	M	M	M	
343	AV018	35.9462	82.0004	7.4	30	4.0	18	13	42400	111	38800	580	12000	6.0	5600	M	M	2.5	M	M	M	M	
374	AV049	35.9646	82.0288	7.7	26	16.1	-2	178	55500	-20	6100	1930	13800	11.8	30100	270	5.6	-1.0	M	M	M	-0.6	
598	BN002	35.5178	82.2664	7.7	20	3.4	6	44	61400	77	18500	510	10300	15.2	4100	40	6.9	2.3	30	8	2.4	0.6	
599	BN003	35.5206	82.2966	7.5	24	6.0	14	170	68800	112	54000	730	10200	31.9	6900	70	9.9	3.5	56	10	12.8	1.9	
600	BN004	35.5472	82.3086	7.6	15	5.5	7	69	58500	59	35800	900	9200	11.1	10900	90	M	-1.0	29	3	5.1	0.7	
601	BN005	35.5709	82.2930	7.7	17	3.8	19	15	59800	49	25500	640	8900	9.7	6300	70	M	M	21	3	M	0.5	
602	BN006	35.5593	82.2648	7.6	18	3.6	8	26	63500	86	23700	770	9300	11.7	8100	80	M	-1.7	27	6	M	M	
603	BN007	35.5026	82.2447	6.2	11	13.5	26	261	53900	51	28600	640	7300	15.9	5400	30	M	2.7	47	9	15.4	2.8	
604	BN008	35.5309	82.2395	6.6	18	3.6	5	19	46100	27	12200	270	6300	6.3	2300	30	2.1	1.3	15	2	2.6	0.5	
605	BN009	35.5280	82.2053	7.0	29	3.4	M	M	85600	M	M	600	11700	M	6100	70	M	M	131	M	M	M	
606	BN010	35.5318	82.1782	7.3	29	2.5	4	14	53100	20	16200	320	8600	8.1	2800	40	M	-1.2	15	2	M	M	
607	BN011	35.5434	82.3782	7.4	13	3.9	-2	50	40100	-33	24200	500	6200	7.0	4900	40	3.6	M	21	12	M	0.6	
608	BN012	35.5583	82.3645	7.1	10	2.7	7	18	44200	44	22900	510	6900	6.7	3900	40	8.8	-1.0	21	6	2.8	0.5	
609	BN013	35.5515	82.4028	7.3	19	4.0	9	24	58700	83	29500	600	6500	8.2	5000	50	M	-1.0	31	6	2.8	0.5	
610	BN014	35.5122	82.3791	7.2	35	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
611	BN015	35.5229	82.3459	7.2	24	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
613	BN017	35.5108	82.4282	7.6	38	10.1	46	95	31300	316	70700	1630	3300	8.5	12700	110	25.1	4.6	146	23	12.6	1.7	
618	BN022	35.5124	82.4659	7.7	30	3.1	9	20	59000	94	33200	710	7900	11.5	6200	70	12.1	-1.2	47	12	M	0.4	
619	BN023	35.5368	82.4320	7.5	41	1.7	7	11	14100	44	14200	400	1500	2.7	2300	30	4.6	-1.0	23	6	1.9	0.3	
620	BN024	35.5616	82.4896	7.6	40	4.4	55	87	40900	394	67500	700	3300	18.2	8200	60	8.5	5.8	189	22	17.5	1.5	0.064
621	BN025	35.5452	82.5104	7.2	31	4.4	8	46	39800	66	16100	540	5000	8.2	6100	50	5.5	M	35	5	4.5	0.6	
622	BN026	35.5072	82.5228	7.2	47	3.2	9	40	64900	68	37200	640	2500	10.5	9300	150	69.2	-1.6	27	5	M	0.5	
624	BN028	35.5118	82.5990	7.1	34	1.9	7	14	34000	60	19700	360	1400	7.9	5200	50	50.2	2.5	20	5	2.3	0.3	
625	BN029	35.5440	82.7403	6.9	44	3.9	29	75	44900	230	76300	390	1700	19.8	12900	60	65.4	-1.0	88	11	M	1.8	
626	BN030	35.5332	82.7376	7.5	50	22.6	112	122	69600	832	36800	1040	7600	12.1	13700	100	51.8	4.0	363	64	M	0.7	
627	BN031	35.5529	82.7296	7.4	33	18.5	84	70	49500	620	43800	700	2000	9.4	22300	70	61.0	5.1	300	40	M	0.7	
628	BN032	35.5359	82.6876	7.4	30	4.4	43	61	43300	368	57600	460	4000	18.7	6000	50	58.6	5.1	138	17	4.6	1.0	
633	BN037	35.5013	82.7066	7.5	21	7.1	37	60	30500	269	24900	530	3200	9.2	M	40	M	-1.0	121	17	4.1	0.6	
635	BN039	35.5183	82.6519	7.2	22	5.0	26	51	43900	138	24600	550	3500	8.3	8500	50	43.4	1.2	71	16	3.1	0.6	
643	BN047	35.5068	82.5581	7.4	34	4.1	16	52	36400	97	30800	560	2300	9.1	8100	50	51.8	M	42	13	2.6	0.5	
644	BN048	35.5797	82.4623	7.4	44	8.0	28	38	48200	225	48400	1530	7100	9.8	11000	100	30.9	-1.8	108	21	8.6	1.1	

ASHEVILLE 100K SHEET - 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
645	BN049	35.5601	82.6307	7.2	49	9.9	56	101	69700	315	56400	940	3900	14.9	18700	80	15.5	4.6	169	39	10.0	1.2	
646	BN050	35.5640	82.6713	7.2	100	20.0	155	423	30800	971	75200	1230	5800	15.4	33400	40	18.5	4.3	488	64	22.7	3.1	
647	BN051	35.6541	82.3516	7.5	13	7.8	32	49	67700	188	55000	1490	4900	13.0	8400	70	13.5	2.3	97	16	8.8	0.9	
648	BN052	35.6053	82.3834	7.0	27	14.8	122	177	34900	781	65900	850	3200	17.4	15000	60	23.0	10.8	372	46	23.4	4.2	
649	BN053	35.6073	82.3568	7.1	15	19.7	82	97	56700	476	44100	1240	3200	10.6	12500	80	34.5	M	231	40	12.4	2.2	
650	BN054	35.6410	82.3088	7.1	19	4.9	18	25	55800	116	27800	460	4000	7.5	6100	60	7.1	1.1	52	17	3.0	0.5	
651	BN055	35.6069	82.3181	7.1	14	4.4	14	45	51400	76	38100	690	5000	10.7	8600	40	8.0	2.4	38	7	4.7	0.5	
652	BN056	35.6195	82.2820	6.8	11	2.5	9	31	46300	99	44200	350	2600	14.2	4400	40	4.3	1.9	42	6	4.4	0.5	
653	BN057	35.6083	82.4171	7.0	18	6.1	26	22	77800	166	42100	970	4900	10.0	8000	70	M	1.3	74	8	5.4	0.6	
654	BN058	35.5696	82.4293	7.2	19	6.8	31	28	47700	234	44300	1300	7000	10.6	7000	90	14.1	3.8	114	15	6.9	1.0	
655	BN059	35.5902	82.4438	7.2	30	7.1	28	37	51800	205	50100	1210	7700	11.7	7500	80	18.7	2.6	116	17	11.0	1.3	
656	BN060	35.6766	82.3425	7.5	14	6.6	61	81	83800	537	100800	2030	13500	30.6	11500	80	16.6	6.2	236	29	12.2	1.7	
657	BN061	35.7001	82.3125	7.0	10	5.4	23	23	67400	138	45400	1600	14200	16.0	5400	70	11.9	2.0	65	8	9.9	1.3	
658	BN062	35.7212	82.3271	6.7	9	5.3	24	23	77000	148	37000	930	13700	11.6	7500	80	7.9	2.0	77	10	4.0	0.7	0.117
659	BN070	35.5794	82.7102	6.9	38	15.9	75	87	41300	493	31500	830	3300	10.2	17500	50	21.9	3.5	276	36	M	0.5	
660	BN071	35.5993	82.7385	7.0	42	6.4	60	79	66600	427	83500	860	8700	35.3	9900	90	15.1	M	189	30	5.5	1.2	
661	BN072	35.6248	82.7588	6.9	35	22.0	87	38	78000	668	49600	1110	6400	16.7	11000	90	29.3	7.0	344	57	7.8	1.4	
662	BN073	35.6521	82.7715	6.8	52	6.1	16	122	62700	148	48300	1940	9400	28.0	21900	130	23.6	3.0	63	9	10.1	1.6	
663	BN074	35.6720	82.7920	7.0	52	4.9	14	91	62400	151	65800	1540	9400	32.0	23500	140	12.1	5.8	74	14	8.1	0.9	
664	BN075	35.6526	82.8072	6.9	38	1.8	16	55	76600	201	98500	990	13600	50.9	10600	130	12.2	2.6	99	14	12.3	1.4	
665	BN076	35.6713	82.8116	7.0	52	3.2	10	51	54400	83	48900	1220	6200	18.7	23000	110	11.9	3.2	38	7	4.6	0.7	
666	BN077	35.6356	82.8324	7.1	50	2.4	5	39	80000	128	58000	1290	10800	26.3	14800	160	8.5	4.2	52	10	8.0	0.8	
667	BN078	35.6566	82.8252	7.2	63	2.3	15	31	72500	137	41400	1040	7200	20.9	11700	120	57.3	3.0	55	19	7.1	0.7	
668	BN079	35.6579	82.8508	7.3	39	1.7	8	18	1900	114	40700	790	12700	21.0	6900	90	M	1.9	48	5	2.8	0.5	
669	BN080	35.6710	82.8596	6.9	18	10.4	37	33	68000	337	37300	660	9500	12.9	9400	60	64.9	6.6	174	24	7.4	0.8	
670	BN081	35.7012	82.7495	7.0	62	2.1	14	29	77000	80	39300	890	8400	18.5	10700	120	17.9	M	39	8	M	-0.8	
671	BN082	35.6825	82.7116	6.9	51	10.3	41	36	M	327	39900	940	6300	14.8	10600	100	55.0	3.8	150	26	6.2	0.7	
672	BN083	35.6895	82.6928	6.9	59	6.6	33	43	57100	282	38500	890	6700	17.5	10100	90	51.6	3.0	108	19	5.4	0.7	
673	BN084	35.6563	82.7039	7.0	99	5.5	19	39	52600	166	38900	1180	6900	16.8	18100	150	42.8	2.1	61	10	2.1	0.6	
674	BN085	35.6494	82.6820	7.1	70	4.0	31	33	50200	253	70400	760	7200	28.9	9400	90	4.7	2.8	128	16	9.5	0.6	
675	BN086	35.6349	82.7105	7.1	78	16.2	70	123	1600	475	44300	1040	6200	15.0	15500	80	55.9	M	248	64	M	0.8	
676	BN087	35.6232	82.6614	7.1	31	24.3	88	177	M	655	40300	1470	2600	7.3	34700	50	40.7	3.1	295	68	8.1	1.3	
677	BN088	35.5753	82.6560	6.4	31	5.8	25	49	44900	181	28100	530	3900	7.4	8600	40	21.0	2.8	83	13	4.8	1.3	
678	BN089	35.5901	82.6262	6.5	36	13.6	72	45	59600	660	30100	1180	3300	8.3	9700	40	35.4	3.7	302	71	8.9	0.9	

ASHEVILLE 100K SHEET - 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
679	BN090	35.6172	82.6246	6.5	50	4.2	9	35	43900	105	23100	600	3900	5.9	9500	40	58.4	3.8	46	6	M	0.5	
680	BN091	35.6144	82.5971	6.6	53	6.8	17	75	30300	106	28500	560	6800	5.4	13900	30	37.1	M	62	8	5.9	0.8	
681	BN092	35.6494	82.6230	6.8	51	5.5	18	26	40600	132	15100	430	6600	4.4	6500	20	48.8	-1.6	69	18	M	0.5	
682	BN093	35.6527	82.6454	6.8	41	5.4	41	101	34000	259	40000	470	4500	14.4	8600	40	43.5	5.8	129	17	10.4	1.5	
683	BN094	35.6884	82.6310	6.8	79	2.6	-4	50	44200	52	42200	940	3400	12.8	14700	90	44.1	M	20	5	M	1.0	
684	BN095	35.7032	82.6488	7.8	118	1.5	9	12	72400	111	56500	1090	7000	21.2	7600	140	50.0	2.0	30	5	M	0.4	
685	BN096	35.7168	82.6233	8.1	77	1.7	7	20	63700	89	33900	880	13900	11.9	9600	100	69.4	-1.0	32	5	M	-0.5	
686	BN097	35.7355	82.6179	7.7	121	1.8	3	38	39800	62	30300	820	5000	8.4	10700	70	35.8	-1.0	22	2	4.3	-0.2	
687	BN098	35.7665	82.5882	7.5	84	3.2	11	127	39500	86	41800	1100	4400	9.3	19300	110	46.7	M	31	9	M	0.8	
688	BN099	35.7441	82.5205	7.5	41	6.9	31	54	59100	191	34900	890	11400	13.8	10800	50	68.5	2.4	90	15	8.7	0.8	
689	BN100	35.7327	82.5907	7.7	103	2.5	6	98	54700	107	54200	1230	9100	13.6	22100	130	45.2	-1.0	42	10	M	0.6	
690	BN101	35.7166	82.5890	7.5	78	4.0	16	80	34200	87	40500	780	3800	10.9	18200	70	M	-2.0	40	12	3.0	0.6	
691	BN102	35.7191	82.5591	7.2	61	9.1	76	92	58200	588	62900	1020	9400	17.0	13400	50	15.6	3.1	275	36	7.9	2.1	
692	BN103	35.7097	82.5359	7.1	41	5.4	20	14	61100	145	22500	670	13000	6.4	7000	40	12.6	1.2	73	8	2.6	0.5	
693	BN104	35.6874	82.5944	7.0	41	10.5	97	146	45000	664	76700	1170	8000	20.7	21300	60	18.7	11.2	305	42	15.5	2.6	
694	BN105	35.6825	82.5602	6.9	37	11.7	61	76	45800	402	35100	1090	10000	9.1	19600	60	23.5	3.2	188	45	8.2	1.7	
695	BN106	35.6822	82.5338	6.9	50	10.3	42	63	51000	329	30800	1060	5700	8.0	13300	50	16.6	2.1	149	21	6.1	1.3	
696	BN107	35.6419	82.5282	6.7	39	10.8	56	88	48600	416	37000	1010	6800	8.8	14300	50	21.5	6.2	191	36	7.5	1.6	
697	BN108	35.7825	82.5476	7.1	92	2.7	6	186	56100	218	195200	2270	11500	33.4	M	260	M	6.3	99	19	8.3	1.5	
698	BN109	35.7867	82.5144	7.3	25	5.6	20	35	68000	174	39300	1090	14500	13.2	11100	70	15.0	3.0	87	10	4.5	0.6	
699	BN110	35.7768	82.4884	6.9	50	8.7	29	64	51500	189	32700	990	10000	11.9	13100	70	12.1	1.2	87	12	3.7	0.5	
700	BN111	35.7887	82.4455	7.0	61	1.8	7	20	78700	56	40900	840	24300	15.0	7500	90	4.4	2.1	28	5	2.6	0.6	0.047
701	BN112	35.7913	82.4222	7.1	22	6.9	55	77	67500	421	95500	1030	12700	26.6	14600	80	M	-1.0	205	26	7.5	1.9	
702	BN113	35.8056	82.4082	6.9	36	3.3	10	23	60700	77	38300	910	12800	13.0	11500	100	12.1	-1.2	34	5	3.8	0.3	
703	BN114	35.7919	82.3881	6.9	15	7.4	30	22	67300	231	38700	1000	10800	11.4	12800	80	17.0	3.4	113	29	4.3	0.7	
704	BN115	35.7995	82.3671	6.8	12	8.0	39	38	66300	280	53700	1100	9800	15.9	14300	80	7.9	3.2	141	28	M	0.8	
705	BN116	35.7509	82.4327	6.7	25	9.3	97	72	62800	710	71600	850	11900	19.2	11600	60	8.9	7.3	352	47	11.1	1.2	
706	BN117	35.7578	82.4040	6.8	40	8.6	53	60	69700	355	45100	1050	14600	10.9	29700	80	18.9	2.7	179	21	7.6	0.9	
707	BN118	35.7720	82.3637	6.6	14	17.2	74	28	101700	534	58400	1890	13500	18.9	18100	130	35.1	4.3	307	69	6.1	1.0	
708	BN119	35.7556	82.3556	6.5	11	13.0	61	38	90600	533	66800	4010	12900	26.5	16900	110	20.9	5.8	269	40	10.6	1.7	
709	BN120	35.7199	82.4033	6.3	13	6.3	57	75	89000	493	110200	2330	13900	32.8	16000	90	17.8	4.7	241	34	19.7	3.0	
710	BN121	35.7475	82.4618	6.6	36	14.8	56	101	57300	390	48000	1120	9200	10.0	21900	60	20.4	3.6	195	19	11.8	1.4	
711	BN122	35.7133	82.4701	6.6	62	8.0	42	53	57600	285	34500	880	11600	9.3	17500	60	8.1	-1.7	139	19	2.9	0.7	
712	BN123	35.7035	82.4423	6.8	19	4.9	28	30	64500	144	40300	1190	14500	16.8	10300	90	M	2.6	71	15	M	0.9	

ASHEVILLE 100K SHEET - 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
713	BN124	35.6894	82.4898	6.8	32	11.7	118	128	48400	771	79100	880	7400	20.2	14200	60	15.8	12.6	377	49	14.5	1.9	
714	BN125	35.6105	82.5007	6.8	60	5.5	26	76	22200	144	30000	500	1200	7.4	11600	40	4.9	1.6	63	13	6.7	0.5	0.048
715	BN126	35.6105	82.4783	6.9	38	7.0	26	55	47900	172	32700	710	3500	9.8	14600	60	15.9	-1.4	83	18	6.0	0.7	
716	BN127	35.6406	82.4733	6.9	38	12.0	56	99	49000	384	46100	1090	6800	10.4	22900	70	21.6	4.2	222	52	5.3	1.1	
717	BN128	35.6461	82.4476	6.9	20	4.7	21	41	52300	157	31100	830	8100	8.8	14000	60	13.1	-1.1	61	10	3.1	0.5	
718	BN129	35.6346	82.4159	6.8	20	10.1	39	39	76100	319	55100	1880	12700	15.5	11600	80	23.4	2.4	142	27	6.2	1.3	
719	BN130	35.6575	82.4046	6.8	14	9.1	55	41	94700	406	65900	2670	15800	20.7	19100	90	29.5	5.2	187	28	11.5	1.6	
2984	HY015	35.5082	82.8637	7.1	46	20.4	110	74	43400	621	25900	860	3600	9.9	11700	60	39.1	2.4	318	29	5.0	1.2	
2988	HY019	35.5117	82.9071	7.3	60	16.3	79	108	52000	430	55600	1930	13300	23.0	28900	120	26.1	2.4	204	27	8.2	1.6	
2989	HY020	35.5042	82.9402	6.5	19	22.1	172	176	42500	1059	72200	1820	1900	14.9	56600	80	37.6	4.9	472	90	4.2	0.7	
3004	HY035	35.5302	82.9211	7.2	32	63.3	425	462	31000	2596	111200	3390	1400	20.4	95700	110	32.2	6.5	M	M	M	1.8	
3007	HY038	35.5079	82.9967	7.2	23	5.9	18	79	38400	115	18700	510	5100	8.4	6000	40	5.1	-1.2	50	8	3.5	0.6	
3008	HY039	35.5270	82.9982	7.0	53	3.2	9	28	48800	151	21500	710	9200	13.9	6000	90	9.5	1.6	68	12	3.4	0.7	
3023	HY054	35.5334	82.9613	7.1	44	2.3	24	39	51800	102	78000	740	6200	29.5	6400	70	5.4	4.6	M	M	M	-1.2	
3024	HY055	35.5350	82.7976	6.6	52	2.5	8	15	49300	68	27900	730	7300	11.2	5600	70	4.3	-1.5	104	7	M	-1.4	
3025	HY056	35.5109	82.8281	6.5	28	9.1	53	42	52300	381	48400	1070	6600	20.7	12200	70	18.5	5.5	M	46	M	1.6	
3026	HY057	35.5099	82.8086	6.8	34	5.4	33	61	51500	185	40900	860	5000	13.2	10800	70	12.4	1.3	93	13	5.4	0.6	
3027	HY058	35.5168	82.8022	7.0	34	4.0	15	29	M	107	31400	M	3300	10.6	M	60	M	-1.3	56	10	M	0.7	
3030	HY061	35.5550	82.8325	6.9	48	2.5	35	42	53200	221	71200	750	9000	41.6	6400	80	8.0	4.3	107	16	8.3	1.0	0.051
3031	HY062	35.5451	82.9067	6.2	61	14.5	58	105	21600	356	16200	350	1300	5.7	10400	30	13.4	2.0	198	19	4.3	0.8	
3032	HY063	35.5487	82.9422	7.0	50	8.4	16	130	44400	95	22800	620	8800	10.2	9500	50	M	-1.2	55	8	6.6	1.0	0.049
3033	HY070	35.5735	82.8698	7.0	48	5.8	19	60	67000	190	34800	840	11200	21.1	11100	90	M	M	99	16	11.2	0.9	
3034	HY071	35.5719	82.8318	7.3	49	14.1	62	221	53800	443	81200	2980	9000	42.9	39600	180	33.9	8.7	193	33	10.0	2.6	
3035	HY072	35.5968	82.8326	7.1	39	2.3	-4	6	81900	119	56100	1350	14500	12.1	12300	150	6.5	-1.0	84	57	10.2	2.1	0.376
3036	HY073	35.5597	82.8042	7.7	45	33.7	151	40	62900	1116	45000	1660	12900	8.1	20100	120	36.5	5.2	639	312	22.4	-0.3	
3037	HY074	35.5725	82.9569	7.2	40	8.5	32	39	47700	175	23500	790	6400	10.3	10200	80	9.2	1.8	110	73	9.8	0.8	
3038	HY075	35.5744	82.9404	7.1	49	7.4	24	21	66300	259	36300	990	18100	7.3	16400	120	8.6	4.2	161	22	12.4	1.4	0.464
3039	HY076	35.5966	82.9223	7.1	42	12.3	15	68	65300	293	78800	1930	14800	22.5	39200	160	26.7	5.7	156	17	21.6	2.9	
3040	HY077	35.6135	82.8987	7.6	40	3.5	8	7	76300	161	45800	840	18100	8.7	8200	90	12.9	4.6	130	98	8.8	0.8	
3041	HY078	35.5962	82.8993	7.4	52	2.9	-4	11	83800	248	66900	1520	22800	24.9	17700	190	11.8	4.0	157	31	M	-0.4	
3042	HY079	35.6128	82.8730	7.3	40	2.6	9	5	85400	127	48300	1180	16100	15.2	14200	140	13.3	11.6	109	19	M	0.9	0.904
3043	HY080	35.6350	82.9436	7.7	70	4.0	16	6	105800	390	45500	2350	31800	18.0	17100	240	22.9	7.4	198	32	M	-0.4	
3044	HY081	35.6769	82.9456	7.6	40	3.4	10	8	72500	68	27200	780	16200	11.1	5500	70	12.5	-1.0	78	11	M	1.1	
3045	HY082	35.6759	82.9266	7.1	20	3.1	-4	5	73100	108	29900	1850	44800	9.5	5400	40	10.8	-1.0	M	M	M	-0.4	

ASHEVILLE 100K SHEET - 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
3046	HY083	35.6916	82.9332	7.2	49	2.9	11	8	85800	171	54000	2650	47000	8.1	10200	140	10.0	3.7	M	184	9.0	-0.5	
3047	HY084	35.6894	82.9184	7.1	62	4.0	7	6	93700	328	42100	960	25800	19.4	M	130	27.5	-1.0	251	31	15.0	0.9	
3048	HY085	35.7150	82.9303	7.3	32	2.9	12	4	79800	115	44200	1010	16400	11.8	8500	130	8.5	3.7	198	71	M	M	
3049	HY086	35.7128	82.9490	7.3	40	3.2	10	4	89700	180	49100	1050	18800	12.9	7700	150	8.6	-1.0	78	112	6.7	0.8	0.695
3050	HY087	35.6815	82.9538	8.0	55	2.5	-5	3	80100	146	32700	810	21500	16.5	5700	110	12.8	2.9	M	20	7.3	-0.5	
3051	HY088	35.6801	82.9812	7.9	55	3.8	M	11	68100	93	40700	1010	13200	12.7	8800	120	14.5	2.4	M	22	M	1.4	
3052	HY089	35.6564	82.9800	7.4	43	5.1	19	7	51400	136	33400	480	6200	5.8	10400	50	11.1	4.2	65	7	M	0.5	
3053	HY090	35.6421	82.9800	7.4	39	6.1	19	41	30900	137	13100	400	4000	3.7	8400	30	4.4	1.7	85	32	14.8	1.7	
3054	HY091	35.6081	82.9710	7.4	55	9.5	21	63	44400	211	27300	540	7500	6.8	7200	60	9.1	-1.0	76	104	4.9	1.0	
3055	HY092	35.5867	82.9651	7.6	72	24.1	105	38	72400	700	59900	1300	6400	10.1	17100	110	21.3	7.4	463	272	19.1	-0.4	0.860
3056	HY093	35.5733	82.7985	7.7	52	88.5	392	58	69200	2849	74800	2750	15700	10.8	38200	130	100.6	23.7	M	1107	23.6	2.0	
3069	HY106	35.7637	82.9899	7.0	19	6.7	47	5	82900	123	10900	790	19300	3.9	4300	30	6.7	4.6	71	8	5.0	0.5	
3070	HY107	35.7649	82.9752	6.9	17	4.3	22	6	84100	75	38800	1380	19900	7.2	10400	80	7.7	3.1	64	8	M	0.6	
3697	MC008	35.8540	82.0110	7.6	73	3.6	9	63	55400	66	59800	970	10700	16.2	11300	120	6.0	1.4	28	5	4.9	0.9	
3698	MC009	35.8036	82.0171	6.6	80	6.6	16	121	13600	148	14300	250	2300	6.1	4200	30	7.3	-1.0	53	11	5.1	1.1	
3699	MC010	35.8175	82.0403	7.6	57	3.6	14	26	61800	110	64600	1410	16600	23.1	18600	180	4.3	1.1	50	15	4.9	0.5	
3700	MC011	35.8222	82.0767	7.4	36	3.5	-1	29	53000	54	29500	740	11600	18.4	9100	90	4.8	-1.0	28	8	3.3	0.6	
3701	MC013	35.7957	82.1230	7.1	27	3.0	6	34	48000	-20	41100	650	17800	13.2	7500	90	M	9.8	36	4	3.4	-0.2	
3702	MC014	35.7913	82.1313	7.2	27	2.7	-2	35	58700	29	55400	1420	17800	12.0	16600	220	3.0	-1.2	17	4	3.7	0.5	
3703	MC015	35.7678	82.0531	7.1	21	3.0	7	30	43700	116	43400	610	9500	13.6	5100	60	6.4	-1.0	49	9	M	0.5	
3704	MC016	35.7370	82.0490	6.9	30	2.3	7	32	17400	45	6100	120	1300	3.0	4100	20	2.5	1.3	19	5	M	0.3	
3705	MC017	35.7361	82.0871	7.2	24	2.7	11	35	53400	122	38500	600	14800	17.7	4800	70	4.0	7.9	75	15	6.7	0.5	
3706	MC018	35.7482	82.0960	7.0	20	2.6	M	28	23100	38	29700	210	5900	8.6	2100	30	1.4	1.3	20	5	2.3	0.4	
3707	MC019	35.7335	82.1287	7.1	17	2.3	9	23	49300	-20	25500	540	10300	7.2	5800	60	3.9	0.9	34	M	4.8	0.6	
3708	MC020	35.7393	82.1453	7.2	30	2.6	-1	27	43300	41	33500	690	12200	12.1	9700	100	4.1	1.8	17	4	M	0.6	
3709	MC021	35.7352	82.1588	7.1	25	2.8	13	20	57100	39	40000	600	19000	13.1	5300	60	5.0	4.6	47	6	4.7	0.8	
3710	MC022	35.6983	82.1955	7.1	17	3.0	4	25	62800	34	33900	800	16300	8.2	8000	70	2.6	0.9	32	5	3.6	0.4	
3711	MC023	35.6872	82.2243	6.4	14	2.6	11	25	54000	49	26300	590	14100	9.7	5800	30	2.6	1.1	46	8	3.9	0.9	0.080
3712	MC024	35.6751	82.1973	7.0	18	2.9	4	35	18400	31	26300	230	3900	6.8	1700	20	2.5	-1.0	23	6	2.1	0.3	
3713	MC025	35.6550	82.1707	7.2	35	3.3	13	19	55800	60	19300	420	8200	11.6	3000	40	4.3	1.1	33	4	2.0	M	
3714	MC026	35.6344	82.1947	7.3	23	5.1	13	50	73500	58	35200	1070	8300	11.8	7600	90	2.3	-1.0	31	6	3.6	0.8	0.141
3715	MC027	35.6578	82.2457	7.0	20	2.8	8	23	67900	60	31400	680	7100	10.4	6300	70	3.5	-1.0	40	6	M	-0.2	
3716	MC028	35.6626	82.2539	7.1	18	3.5	5	29	44900	62	20900	630	6800	5.3	5900	50	3.9	-1.0	28	7	6.6	-0.2	
3717	MC029	35.6553	82.2566	6.9	20	3.0	8	32	45400	86	39700	640	7000	9.7	9200	50	M	-1.0	39	9	3.2	0.6	

ASHEVILLE 100K SHEET - 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
3718	MC030	35.6333	82.2404	7.5	70	6.7	6	85	50400	67	34600	1000	9800	7.9	12100	70	5.4	-1.0	26	6	6.8	1.0	
3719	MC031	35.6146	82.2292	7.5	36	3.1	11	16	67800	53	39800	710	17100	9.7	6600	90	3.2	-1.0	42	6	4.0	M	
3720	MC032	35.6073	82.2260	7.3	30	5.0	12	44	64900	36	26900	890	8500	8.9	8600	90	3.3	2.0	33	8	5.7	0.7	
3721	MC033	35.5657	82.2222	7.3	34	5.1	8	65	63000	84	30900	580	9600	17.8	5500	50	3.9	1.8	56	9	7.5	1.3	
3722	MC034	35.5784	82.1964	7.4	35	12.0	10	260	55500	49	13000	550	9000	22.8	3200	50	2.7	1.3	31	9	6.5	2.5	
3723	MC035	35.5914	82.1716	7.3	30	5.3	9	83	20700	73	21200	120	2600	11.0	1100	10	1.3	2.6	33	3	6.5	1.2	
3724	MC036	35.5621	82.1814	7.2	35	4.6	7	47	59500	46	17600	460	8700	9.2	7200	70	5.0	-1.0	20	5	2.1	0.6	0.079
3725	MC037	35.5699	82.1570	7.3	29	3.3	10	38	56300	32	26000	410	7100	8.5	4200	60	2.1	-1.0	40	4	6.2	0.9	
3726	MC038	35.6045	82.1276	7.3	24	4.5	4	77	9700	26	7200	60	600	3.7	800	10	1.1	-1.0	12	3	3.1	0.7	
3727	MC039	35.6155	82.1031	7.1	30	10.1	36	134	39600	204	31600	670	1900	9.3	8700	80	17.1	2.0	135	25	17.1	2.4	
3728	MC040	35.6292	82.0838	7.1	31	26.9	74	347	16700	521	28700	280	700	7.3	4700	40	17.1	5.9	255	61	26.5	4.1	
3729	MC041	35.6529	82.1200	7.4	37	10.9	59	126	16900	215	42700	330	1300	17.4	3300	30	3.4	2.2	129	23	6.8	0.9	
3730	MC042	35.6686	82.1272	7.2	20	4.1	9	20	76800	57	26800	700	17800	12.6	2600	50	5.1	-1.0	25	7	1.9	0.3	
3731	MC043	35.6708	82.0802	7.3	29	7.7	22	150	49800	133	39400	820	4400	13.2	8700	90	8.7	3.3	74	8	5.7	1.8	
3732	MC044	35.6900	82.0845	7.3	25	5.0	9	50	32400	76	20400	340	4400	9.8	2800	40	4.0	-1.0	31	9	2.8	0.4	
3733	MC045	35.7230	82.0896	7.0	22	3.4	14	32	24100	161	49900	190	5200	18.6	1300	30	5.0	5.5	95	15	3.8	0.7	
3734	MC046	35.7022	82.0290	7.6	70	4.7	6	43	65300	72	34000	610	2300	7.3	5100	50	2.3	1.7	39	9	4.0	M	
3735	MC047	35.7241	82.0201	7.6	97	2.7	9	24	23600	81	15500	170	2300	4.7	2600	20	3.5	-1.0	34	4	4.4	0.4	
3749	MC061	35.6388	82.0135	7.3	50	4.9	11	43	53700	97	25300	440	4500	6.9	5200	50	5.4	2.0	109	M	7.7	-0.2	
3752	MC064	35.6330	82.0549	7.3	42	9.3	2	93	M	29	5700	M	M	6.9	M	M	4.5	2.2	M	5	M	-0.3	
3753	MC065	35.5962	82.0302	7.3	45	8.8	23	92	49500	192	23700	630	4900	6.9	8400	60	6.0	2.0	98	17	12.7	1.5	
3754	MC066	35.5864	82.0540	7.3	35	9.9	30	95	73300	227	40100	950	9400	11.0	8100	90	7.3	3.7	M	91	8.2	1.6	
3755	MC067	35.5785	82.0405	6.6	31	17.7	29	380	60800	204	19300	890	5900	9.4	9100	60	23.3	1.8	139	13	9.2	3.0	
3756	MC068	35.5638	82.0144	7.4	30	9.5	7	38	M	59	5800	M	M	10.9	M	M	9.2	-1.0	M	3	2.4	-0.2	
3757	MC069	35.5624	82.0602	7.2	36	3.3	2	36	77100	65	22100	560	12100	13.4	5100	50	3.8	1.5	71	M	M	-0.2	
3758	MC070	35.5456	82.0981	7.0	30	11.9	15	279	56200	77	30600	550	9300	24.0	7200	70	5.3	5.5	M	M	18.2	2.2	
3759	MC071	35.5304	82.0964	7.2	34	7.7	9	118	65000	43	18700	520	14300	7.4	4600	50	3.4	-1.0	71	M	7.9	1.1	
3770	MD001	35.8006	82.6599	7.8	135	9.5	12	34	62000	179	59400	1710	14300	18.0	32000	140	11.9	4.0	92	16	8.8	0.9	
3771	MD002	35.7321	82.7228	7.8	95	3.3	-3	9	49300	47	33700	850	21900	10.2	9600	80	5.9	2.4	24	2	5.7	1.6	
3772	MD003	35.7115	82.7753	7.7	65	1.8	-4	2	60000	-20	38200	670	11900	9.3	9600	80	2.3	4.0	32	6	2.8	0.8	
3773	MD004	35.7011	82.8014	7.7	60	4.2	9	2	74000	69	43100	960	19300	15.1	10200	110	12.2	3.9	63	10	6.3	0.5	
3774	MD005	35.7397	82.8506	7.6	28	4.1	M	2	86200	M	M	770	22300	M	6200	60	10.9	M	M	M	M	M	
3775	MD006	35.7234	82.8799	7.6	45	3.4	11	3	89400	141	37100	900	26900	13.9	5000	130	7.3	11.2	96	16	M	1.2	
3776	MD007	35.7011	82.8826	6.5	30	4.0	M	6	53300	M	M	540	12800	M	7300	40	8.3	M	M	71	M	M	

ASHEVILLE 100K SHEET - 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
3777	MD008	35.7224	82.8547	7.1	36	4.3	17	3	87600	165	38700	890	22200	17.4	6500	110	M	2.2	88	21	M	0.5	
3778	MD009	35.7504	82.8828	7.2	42	3.3	-4	3	87100	269	42900	1120	24800	15.6	9000	130	10.6	11.2	154	22	4.6	0.4	
3779	MD010	35.7698	82.8701	7.3	70	10.1	18	20	73000	217	47300	1190	22800	13.3	16700	150	10.4	3.3	137	20	10.6	0.7	
3780	MD011	35.7736	82.9049	7.4	39	3.7	13	6	75700	78	34700	1230	19900	8.7	10800	110	3.5	7.9	64	11	M	1.0	
3781	MD012	35.7860	82.8101	7.3	51	3.7	14	4	79000	147	34300	630	21400	10.7	6000	80	9.1	2.8	67	15	M	0.4	
3782	MD013	35.8027	82.8020	7.3	50	6.9	49	11	78400	264	25400	600	24500	6.5	6100	60	9.3	-1.0	150	13	4.8	0.5	
3783	MD014	35.8331	82.7819	7.3	50	4.7	13	8	66700	83	24300	840	13600	4.6	10900	60	5.7	2.8	40	6	2.8	0.7	
3784	MD015	35.8538	82.7830	7.3	35	7.0	13	9	58900	56	23500	640	10500	3.0	9900	30	2.9	-1.6	53	5	M	1.2	
3785	MD016	35.8230	82.7791	7.4	60	5.6	17	9	66500	169	28000	670	19800	9.2	8500	70	4.4	-1.4	91	13	5.7	1.0	
3786	MD017	35.8090	82.4932	7.8	112	3.9	-4	20	58600	186	41100	1280	16000	14.5	21800	140	16.3	10.3	84	14	8.7	0.8	
3787	MD018	35.8228	82.4557	7.5	56	2.8	7	5	74900	110	27300	700	28400	12.4	7900	100	9.7	-1.0	48	9	4.0	1.0	
3788	MD019	35.8374	82.4486	7.8	70	1.8	12	3	74900	110	41200	720	28300	12.4	7900	110	M	10.1	90	15	10.0	-0.2	
3789	MD020	35.8460	82.4582	8.6	82	4.4	8	23	62800	189	69900	2060	19300	15.2	39500	210	13.5	4.2	100	17	6.3	-0.2	
3790	MD021	35.8557	82.4832	8.6	90	2.4	11	5	72400	78	48100	1360	15000	11.6	21000	170	5.5	M	52	10	3.3	1.1	
3791	MD022	35.8826	82.4811	7.9	94	4.4	22	4	68800	218	73800	1830	16000	19.4	28700	180	15.6	2.0	118	21	5.8	0.8	
3792	MD023	35.8447	82.4994	7.9	51	1.7	7	5	66100	124	48100	1170	16900	15.7	10000	120	8.4	-1.7	63	15	7.6	-0.2	
3793	MD024	35.8324	82.5065	8.2	89	2.6	8	11	63900	-20	56300	1370	20600	8.7	21300	140	M	1.3	55	8	3.7	-0.2	
3794	MD025	35.8401	82.5218	8.2	48	4.4	-3	12	74200	240	37600	1210	15800	18.1	12000	150	15.7	5.9	107	19	6.3	1.1	0.099
3795	MD026	35.8719	82.5198	7.9	48	2.4	-3	5	81700	109	44700	1050	17800	16.7	8300	100	15.1	4.0	88	17	7.5	0.9	
3796	MD027	35.8048	82.5392	7.7	135	9.6	29	71	60500	192	93700	2610	8500	15.1	54700	240	12.4	3.5	99	13	9.5	1.7	
3797	MD028	35.8231	82.5660	7.6	50	6.8	7	9	59500	113	47800	1420	11900	10.4	21600	120	7.3	4.0	52	10	4.1	-0.2	
3798	MD029	35.7993	82.5864	7.8	85	7.9	25	49	56400	198	60200	1610	12900	13.0	26100	170	17.5	5.0	97	15	10.5	1.6	0.193
3799	MD030	35.8054	82.6146	7.9	61	4.2	10	17	56900	169	45800	960	13900	13.1	13500	80	11.0	5.2	87	11	4.5	0.7	0.112
3800	MD031	35.8327	82.6155	7.7	75	3.8	8	11	71400	162	35600	860	16000	6.6	9900	110	7.1	5.9	87	13	6.3	0.5	
3801	MD032	35.8533	82.5963	7.6	65	3.5	-3	5	81400	184	48500	880	15900	13.8	7600	100	11.3	4.0	99	16	M	0.7	0.153
3802	MD033	35.8734	82.5798	7.6	55	3.6	10	5	74100	192	45200	1070	18300	16.5	9500	110	7.9	M	106	18	6.2	0.8	
3803	MD034	35.8548	82.6187	7.6	71	3.0	14	8	73300	44	38200	830	19900	12.6	7700	90	7.9	2.0	78	11	M	-0.2	
3804	MD035	35.8831	82.6255	7.4	68	3.6	18	5	69700	94	34000	820	15300	11.6	5900	90	5.5	M	46	8	3.8	M	0.332
3805	MD036	35.8343	82.5876	7.5	57	3.1	10	65	59100	197	36500	940	10000	17.8	10100	100	8.2	2.8	80	11	M	0.7	
3806	MD037	35.7738	82.6308	7.8	104	3.7	4	65	53000	153	35700	1050	9900	20.4	11300	110	M	2.2	58	14	4.0	0.4	
3807	MD038	35.7684	82.6162	7.9	60	3.2	17	178	65900	318	134000	1400	18300	42.8	17300	190	M	4.7	140	14	M	1.4	
3808	MD039	35.7519	82.6542	7.8	55	1.8	7	23	65700	158	35400	910	17400	21.6	7100	90	M	2.1	68	7	M	0.4	
3809	MD040	35.8338	82.6651	7.9	93	3.4	8	32	68900	90	34700	1180	14200	14.7	12800	100	8.1	1.5	45	5	M	0.6	
3810	MD041	35.8548	82.6722	7.7	32	3.1	10	23	62700	91	38100	980	14500	14.1	7500	90	8.5	2.4	35	6	M	0.5	

ASHEVILLE 100K SHEET - 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
3811	MD042	35.8500	82.7087	7.7	43	6.2	35	79	51200	179	42400	1210	9700	13.2	15100	90	8.7	3.5	79	20	M	0.4	
3812	MD043	35.8399	82.7203	8.3	40	7.8	67	104	65100	277	50400	1520	11600	13.7	19500	100	19.7	1.9	112	18	3.6	0.8	
3813	MD044	35.8533	82.7393	7.4	70	7.5	20	106	42300	118	43000	3140	5500	7.5	36800	90	9.6	-1.0	49	5	M	0.7	
3814	MD045	35.8243	82.7462	7.7	71	3.1	15	66	53300	112	42400	720	8500	15.6	9000	80	M	2.9	59	8	M	0.4	
3815	MD046	35.7900	82.7615	7.9	58	5.6	21	87	63500	162	37900	1110	15300	19.6	15000	100	18.4	2.1	60	15	5.5	0.8	
3816	MD047	35.7549	82.7805	7.5	39	4.4	14	64	64900	121	31600	820	10400	17.3	7900	70	M	2.2	56	8	4.1	0.5	
3817	MD048	35.7413	82.7920	7.6	38	3.6	12	49	68200	148	37100	700	14300	19.6	7700	70	M	4.1	68	11	4.0	0.6	
3818	MD049	35.7681	82.7411	8.2	48	2.8	7	43	63600	54	45900	1150	17900	20.5	14100	110	M	-1.1	27	7	3.0	0.4	
3819	MD050	35.7885	82.7297	7.9	39	2.9	17	103	61800	196	103500	1080	17100	50.5	12700	110	4.7	5.2	87	18	12.4	1.4	
3820	MD051	35.7672	82.7148	7.8	127	3.0	11	26	55700	67	37400	840	19100	14.9	7500	70	M	1.7	25	3	4.7	0.5	
3821	MD052	35.7400	82.6919	7.1	81	3.1	4	41	54900	63	29100	1360	10200	13.6	12600	80	7.8	1.9	28	7	2.8	0.3	
3822	MD053	35.7870	82.6922	7.9	110	3.7	12	56	60000	87	41800	2000	14600	22.7	M	90	M	3.4	56	8	5.2	0.7	
3823	MD054	35.7874	82.6807	7.6	61	2.7	5	32	55800	78	21300	580	13100	12.9	5600	60	M	1.0	32	6	M	0.3	
3825	MD060	35.9089	82.5287	7.3	33	2.8	7	44	65300	173	38700	1080	10700	19.3	8800	120	71.9	4.7	78	12	7.3	0.6	
3826	MD061	35.9388	82.5326	7.6	28	3.6	12	31	77200	133	35000	810	10200	15.9	6500	90	14.3	2.8	57	8	M	0.4	
3827	MD062	35.9347	82.5539	7.5	29	3.2	31	50	69900	206	78600	770	17300	32.1	5600	80	7.6	5.1	98	13	11.1	1.3	
3828	MD063	35.9081	82.5908	7.4	38	2.5	12	31	71900	195	42700	980	15600	21.8	6400	100	8.2	3.8	209	21	5.5	-0.2	
3829	MD064	35.9243	82.6122	7.7	31	3.7	20	38	62600	134	41900	1140	19100	14.5	11200	90	M	1.5	59	5	M	0.4	
3830	MD065	35.9474	82.6010	7.5	20	3.5	22	35	76100	137	38100	1090	15900	12.0	9000	90	M	1.3	65	5	3.7	0.3	
3831	MD066	35.9198	82.6720	7.9	39	3.8	12	52	62700	161	44600	1060	14900	19.4	10000	110	13.1	1.9	80	26	M	0.5	
3832	MD067	35.9290	82.6794	7.7	28	4.9	24	76	70400	202	47400	1030	17600	11.7	13600	100	11.5	2.6	128	8	M	0.6	
3833	MD068	35.9648	82.6548	7.5	27	5.9	30	36	79600	118	32400	920	20400	8.7	M	80	9.8	-1.0	67	4	M	0.8	
3834	MD069	35.9683	82.6338	7.5	17	12.0	97	355	70100	521	107800	1510	14800	21.4	24200	110	10.5	4.2	249	30	11.9	2.1	
3835	MD070	35.9529	82.6349	7.3	18	4.1	15	73	70500	238	55100	1160	15000	17.7	10600	120	15.5	3.7	119	9	3.6	0.4	
3836	MD071	35.9412	82.6485	7.2	36	3.8	21	93	78400	290	74400	1190	13100	19.6	15000	130	M	6.7	205	28	M	1.4	
3837	MD072	35.9209	82.7015	7.6	82	3.8	16	31	84500	135	73800	1750	15700	13.6	26400	180	69.8	2.4	172	25	M	0.6	
3838	MD073	35.9217	82.7274	8.1	40	2.6	16	20	63800	111	32600	770	14700	12.3	6700	80	M	1.0	47	6	2.2	0.2	
3839	MD074	35.9090	82.7325	7.5	43	4.5	13	76	79600	149	43600	1370	9200	12.0	13600	60	M	3.1	69	8	3.2	0.4	
3840	MD075	35.9039	82.7071	7.6	50	5.2	30	30	72000	127	28300	690	10200	7.9	8000	60	M	0.7	73	16	M	0.3	
3841	MD076	35.9138	82.7592	8.0	37	15.6	88	188	M	504	145000	3100	39900	43.8	M	140	M	9.2	272	28	11.8	2.5	
3842	MD077	35.8771	82.7648	7.6	56	21.5	83	213	143800	479	142400	M	31900	20.0	23800	150	M	8.1	188	26	23.2	3.3	
3843	MD078	35.9556	82.7570	7.5	19	7.3	27	63	51900	172	28800	560	2900	9.2	8700	40	18.1	3.8	82	8	9.4	1.5	
3844	MD079	35.9655	82.7412	7.7	118	4.2	13	33	48300	95	33200	750	6000	11.7	5400	70	6.5	4.0	47	8	3.3	1.0	
3845	MD080	35.9775	82.7576	7.7	29	4.0	16	31	59600	111	31700	510	4200	9.1	6800	70	14.8	1.3	43	12	6.1	0.8	

ASHEVILLE 100K SHEET - 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
3846	MD081	35.9336	82.7791	7.5	20	9.4	28	103	37900	171	14900	570	3300	4.3	10600	30	19.9	2.5	62	24	8.6	1.7	
3847	MD082	35.9248	82.8618	7.2	47	4.1	12	29	55900	89	26000	530	2800	8.4	9100	70	7.1	0.9	34	6	11.2	0.7	
3848	MD083	35.9290	82.8783	6.7	48	5.8	32	120	48200	277	52400	700	7100	23.2	8900	60	8.6	3.6	126	19	13.2	1.5	
3849	MD084	35.8995	82.8236	7.2	28	5.3	15	61	42100	104	27600	550	4800	8.6	10000	40	6.1	-1.0	52	8	3.9	0.7	
3850	MD085	35.8759	82.8423	7.5	39	3.4	22	32	67000	145	41700	1300	13800	14.9	14500	100	13.0	1.6	68	15	M	0.7	
3851	MD086	35.8755	82.8836	7.4	23	2.1	10	15	61900	64	18800	430	9500	3.5	1300	M	1.1	-1.0	16	14	3.9	-0.2	
3852	MD087	35.9034	82.9001	M	M	3.4	12	33	13200	133	32300	460	9600	4.8	2500	10	1.3	-1.0	42	6	5.5	1.0	
3853	MD088	35.9002	82.8602	6.5	23	1.9	6	17	32200	101	26900	1730	9200	2.1	11000	40	8.2	2.5	28	19	M	0.9	
3854	MD089	35.8354	82.8589	7.3	22	3.3	21	39	30200	120	53600	1860	9500	5.6	6300	10	1.0	3.3	53	12	8.3	1.1	
3855	MD090	35.8211	82.8872	7.5	38	3.9	40	60	24800	433	123800	1750	8700	6.4	3400	10	4.4	7.5	130	123	24.5	1.7	0.571
3856	MD091	35.8184	82.9000	7.4	19	5.4	26	147	23800	94	118500	470	3500	8.4	5700	20	3.9	4.3	50	53	13.8	1.3	
3857	MD092	35.8054	82.9103	7.4	28	4.5	18	78	13300	244	96100	420	3200	13.8	2800	10	1.7	2.9	60	68	9.9	1.6	
3858	MD093	35.7831	82.9310	7.5	20	3.0	16	30	23800	89	30100	420	3500	5.9	1100	M	M	1.4	31	20	3.9	-0.2	
3859	MD094	35.8097	82.8442	7.4	46	19.6	358	216	48600	1271	134000	1670	16100	8.7	7200	40	2.8	3.0	395	128	11.3	1.0	
3860	MD095	35.9985	82.7020	6.6	11	4.2	12	33	12800	59	19200	1790	16900	5.1	6500	20	2.8	1.9	M	M	3.5	0.7	
3861	MD096	35.9921	82.7091	6.4	18	3.9	19	24	27500	135	23200	1850	19800	3.5	4300	10	3.2	5.1	34	28	4.2	0.8	
3865	MD100	35.9684	82.6844	6.8	45	4.0	20	17	57300	123	30800	1100	11500	6.3	8000	30	M	-1.0	50	17	2.8	0.6	
3866	MD101	35.9927	82.6617	7.0	28	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	M	
4163	MT001	35.9244	82.0550	7.9	21	4.3	M	15	53400	M	M	1810	13100	M	19100	250	M	M	M	M	M	M	
4164	MT002	35.8969	82.0220	7.5	20	2.2	6	25	47800	56	45300	1150	7600	16.3	12200	120	M	-1.0	26	4	3.7	0.7	
4165	MT003	35.8947	82.0696	7.5	25	2.2	4	16	50600	41	42600	1230	10600	17.4	17300	150	7.6	2.6	16	2	1.9	0.4	
4166	MT004	35.8719	82.0651	7.6	21	5.4	8	81	49500	57	54800	1280	9400	19.6	21000	140	M	2.5	30	4	5.8	1.0	
4167	MT005	35.9133	82.0753	7.4	30	4.9	16	13	57600	135	43400	1400	12100	13.7	12700	120	16.3	3.2	46	10	6.5	0.9	
4168	MT006	35.9019	82.1242	7.4	28	7.1	6	36	72300	79	57100	1810	12800	22.4	21300	220	14.9	-1.0	26	7	M	0.5	
4169	MT007	35.9180	82.1450	7.7	42	0.7	-1	8	59500	-20	94200	1790	12800	35.6	17100	300	M	-1.0	12	3	3.8	-0.2	
4170	MT008	35.8476	82.1287	7.7	29	11.1	-1	8	58100	23	22400	880	16400	9.8	4600	70	M	2.4	14	5	M	0.4	
4171	MT009	35.9570	82.1060	7.8	35	3.0	9	28	M	86	69300	1150	12800	28.8	M	M	M	-1.0	27	5	M	0.8	0.047
4172	MT010	35.9697	82.1006	7.9	30	0.8	-2	M	74200	-20	89200	1590	15000	37.2	6300	320	M	1.6	10	4	M	-0.5	
4173	MT011	35.9693	82.1395	7.8	41	4.7	37	59	49500	222	69700	790	9600	27.3	7300	100	M	5.9	113	17	11.2	1.2	
4174	MT012	35.9474	82.1463	7.8	50	6.4	21	37	53600	111	69500	M	11100	23.0	14400	220	M	M	70	11	M	0.6	
4175	MT013	35.9417	82.1730	7.8	51	6.3	17	29	68900	101	71600	2080	18200	30.4	35700	290	M	2.6	45	9	4.4	0.7	0.061
4176	MT014	35.9732	82.1796	7.7	5	5.5	23	92	52600	175	141100	1570	10300	51.1	22300	200	8.9	6.9	79	14	12.7	1.6	
4177	MT015	35.9933	82.1656	7.7	60	4.8	10	38	66700	81	75100	1710	13200	30.4	17600	220	15.8	2.7	38	5	M	1.0	
5276	RU044	35.5212	82.1979	6.8	28	3.5	-2	20	74300	-20	31900	500	12500	12.4	5500	60	2.1	1.8	34	4	3.9	-0.2	

ASHEVILLE 100K SHEET - 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
5320	RU088	35.5097	82.1595	7.0	20	3.9	12	39	21500	67	28700	130	4300	10.0	1000	20	1.5	4.2	28	M	M	0.4	
5327	RU095	35.5221	82.0849	7.2	31	8.8	20	104	57300	128	20800	450	8900	6.7	4900	70	15.6	1.3	67	16	3.8	1.2	
6697	YN007	35.9818	82.4109	8.3	28	5.0	10	63	62600	159	45900	1100	11200	21.3	9000	110	9.7	4.7	74	11	5.3	1.0	
6698	YN008	35.9758	82.4609	8.0	25	6.1	36	116	71700	417	109000	1450	13400	51.1	9600	100	9.3	4.9	180	24	25.6	2.4	
6699	YN009	35.9644	82.4688	8.1	20	4.0	13	41	90400	186	55100	1270	12100	27.6	8800	120	16.6	3.5	92	9	6.3	1.0	
6700	YN010	35.9348	82.4638	8.2	29	3.6	5	49	71100	230	47300	920	10100	28.9	7100	120	14.1	4.1	114	16	5.3	0.9	0.062
6701	YN011	35.9122	82.4755	8.0	40	3.1	13	47	74200	228	40100	950	12400	27.1	6500	120	11.9	2.8	111	18	M	0.5	
6702	YN012	35.9143	82.4239	8.1	45	2.6	8	39	80600	206	38100	1060	14600	21.9	7800	130	M	3.4	83	20	3.7	0.6	
6703	YN013	35.9087	82.4039	8.1	65	5.2	23	116	54500	145	73600	1980	9800	21.3	30500	190	14.3	1.8	62	9	6.4	1.4	
6704	YN014	35.9499	82.4084	8.1	35	4.5	12	83	76000	358	72700	1330	13500	37.2	13900	150	19.8	8.7	141	27	6.2	1.4	
6705	YN015	35.9576	82.3781	8.1	60	2.9	6	44	63800	219	66000	1520	16000	26.0	18700	160	13.5	4.5	87	21	5.4	0.8	
6706	YN016	35.8658	82.3816	7.9	30	9.2	100	106	68100	857	121600	1390	9500	46.8	18700	110	22.1	6.8	392	49	14.0	1.7	
6707	YN017	35.8523	82.4114	7.9	36	2.0	5	33	30200	204	44200	530	15300	21.0	4900	50	9.4	3.7	96	11	4.1	0.6	
6708	YN018	35.8782	82.4148	7.8	69	1.7	4	14	65500	99	43600	860	16700	15.9	10600	110	6.5	1.6	40	8	M	0.5	
6709	YN019	35.8921	82.3720	7.9	41	4.8	24	57	54300	299	52000	1120	7300	23.7	15700	130	11.0	2.9	122	17	8.1	1.1	
6710	YN020	35.9033	82.3400	8.0	35	21.8	128	65	69000	961	73000	1510	7200	19.4	37600	120	42.4	10.4	625	48	M	1.4	
6711	YN021	35.9440	82.3320	7.9	79	3.2	5	51	52500	108	84900	2320	11300	21.6	39900	200	M	-1.0	50	9	6.0	1.0	
6712	YN022	35.9644	82.3379	7.9	61	1.9	10	24	67100	185	80800	1230	16700	26.7	M	110	M	6.1	85	15	3.2	0.9	
6713	YN023	35.9611	82.3209	7.9	75	2.6	7	34	M	126	57800	1140	13200	18.4	M	M	M	1.8	46	10	M	0.5	
6714	YN024	35.9739	82.3059	8.2	89	1.9	5	29	M	128	75700	2390	16900	19.9	M	M	M	3.6	43	10	M	0.5	
6715	YN025	35.9939	82.2875	8.3	75	3.2	13	55	39600	109	95800	2210	8400	20.5	41500	180	M	M	59	15	M	0.9	
6716	YN026	35.9737	82.2811	7.9	70	2.3	5	36	47100	86	117100	3130	6500	15.8	77400	180	7.4	1.7	26	6	4.4	0.5	
6717	YN027	35.9516	82.2818	8.1	50	9.9	99	56	65400	745	194100	2270	9600	61.4	47100	230	M	7.7	357	49	23.9	2.4	
6718	YN028	35.9177	82.2640	7.9	45	11.2	44	58	68500	384	61900	1220	8600	22.7	13600	140	14.1	6.6	168	26	9.3	1.5	
6719	YN029	35.9392	82.2500	8.3	35	11.6	53	43	70700	424	68800	1470	10300	24.2	20600	200	19.2	1.6	180	32	4.4	0.5	
6720	YN030	35.9007	82.2343	8.0	30	12.0	85	37	69400	706	115800	1350	9400	49.0	14100	180	25.7	6.2	347	42	M	1.6	
6721	YN031	35.9546	82.2068	7.6	31	3.5	10	26	71100	97	70100	1420	14900	28.6	17800	200	8.0	2.4	40	5	4.3	0.9	
6722	YN032	35.9913	82.2043	7.6	36	4.4	8	28	61200	81	56500	1210	9700	22.0	17600	170	M	4.0	37	7	4.2	0.7	
6723	YN033	35.9710	82.2290	7.7	29	3.0	8	16	74900	82	83400	1600	14400	36.9	12400	260	13.0	3.6	40	7	M	0.8	
6725	YN035	35.8702	82.1954	7.7	20	20.0	80	66	51900	649	65100	2280	7600	19.5	20300	90	47.2	4.9	275	52	10.8	1.9	
6726	YN036	35.9021	82.1824	7.8	37	24.0	156	58	54600	957	105200	2210	12800	17.7	35200	340	61.7	8.9	420	79	16.3	2.0	
6727	YN037	35.8526	82.1893	7.6	20	13.3	105	60	71000	891	152900	1930	10400	57.5	15200	160	22.6	5.4	410	51	21.0	2.7	
6728	YN038	35.9286	82.1740	7.7	42	4.1	22	23	58200	173	87800	1680	11900	34.3	18900	280	M	2.5	70	8	5.2	0.5	
6729	YN039	35.8269	82.1897	7.5	16	15.1	56	27	81500	424	63800	1670	9500	20.0	15200	110	47.4	3.2	221	30	7.5	1.1	

ASHEVILLE 100K SHEET - 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
6730	YN040	35.8113	82.2000	7.4	10	11.3	45	30	63400	382	48800	1330	8200	14.5	12300	70	12.5	4.5	155	33	3.8	0.9	
6731	YN041	35.7997	82.2090	7.2	11	9.6	37	18	69800	315	39800	930	7400	12.2	8200	60	5.9	-1.5	134	22	3.1	1.1	
6732	YN042	35.7686	82.1977	7.3	17	3.2	8	36	45300	35	31300	660	9900	8.2	13300	50	M	-1.0	23	3	3.4	0.4	
6733	YN043	35.7432	82.2142	7.3	10	4.2	10	54	55000	72	29200	930	14000	8.5	9800	60	5.2	1.4	35	8	5.0	0.8	
6734	YN044	35.7440	82.2299	7.1	10	23.2	204	M	74000	1721	170200	2540	12800	50.0	13200	50	44.1	17.1	902	104	24.6	3.9	
6735	YN045	35.7352	82.2361	7.2	9	11.8	61	25	73100	458	70100	2170	12800	23.0	7700	60	30.2	3.9	215	26	14.4	1.8	
6736	YN046	35.7208	82.2495	7.1	10	6.3	25	20	67000	175	40000	1330	12700	12.6	5700	60	19.7	2.5	86	13	2.5	1.1	
6737	YN047	35.8900	82.2850	7.2	20	7.0	30	27	70400	215	52500	1090	9800	17.8	8900	110	8.5	3.4	112	17	M	1.0	
6738	YN048	35.8258	82.2868	7.3	11	16.2	87	M	89300	760	82100	2440	9900	32.2	7600	90	26.6	5.9	351	46	16.1	2.4	
6739	YN049	35.8430	82.3068	7.2	16	20.6	115	48	98600	917	86400	2740	10700	33.2	13000	110	44.8	7.3	420	58	16.0	2.2	
6740	YN050	35.8262	82.3322	7.3	16	25.7	128	53	70000	901	65700	1740	7500	19.5	21800	90	33.8	7.9	452	58	5.2	1.4	
6741	YN051	35.7924	82.3109	7.3	12	21.3	103	37	106300	851	107300	4440	10100	45.2	11400	80	58.3	6.6	382	55	18.5	3.0	
6742	YN052	35.8042	82.3131	7.3	16	10.2	60	36	68700	415	53300	1610	7500	21.5	11200	110	15.0	3.2	202	19	5.6	1.0	
6743	YN053	35.8714	82.3213	7.3	18	8.3	39	28	88000	329	65000	1910	10600	25.0	7400	90	15.9	4.3	159	21	10.4	1.6	
6744	YN054	35.9143	82.2459	7.2	50	12.6	113	87	71000	825	133500	1650	11100	51.7	22700	180	12.7	8.1	403	74	15.9	2.9	

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
329	AV002	35.9647	82.0334	.	-0.5		90	1.5	.	15	-5	20	7000	5	1600	-5	35	14	300	-10		15	.	-2	25	40
330	AV003	35.9823	82.0165	.	-0.5		103	1.0	.	8	-5	20	5000	5	2700	-5	20	11	500	-10		30	.	-2	5	33
331	AV004	35.9941	82.0193	.	-0.5		73	1.0	.	13	-5	16	4000	5	5150	-5	30	11	300	-10		5	.	-2	5	33
345	AV018	35.9462	82.0004	.	-0.5		78	0.5	.	7	-5	15	8000	15	850	-5	45	11	500	22		20	.	-2	15	40
376	AV049	35.9646	82.0288	.	-0.5		20	1.0	.	10	7	7	9000	5	7750	-5	35	17	800	-10		15	.	-2	45	23
467	BN002	35.5178	82.2664	0.6	0.3	2	342	2.0	500	37	-5	4	23000	13	2250	-2	10	10	1000	-10	-1	-5	.	2	10	45
468	BN003	35.5206	82.2966	0.2	0.2	1	285	1.5	500	27	-5	6	18000	13	1350	-2	-5	15	1000	10	1	-5	.	-2	10	35
469	BN004	35.5472	82.3086	0.3	0.2	2	172	1.0	500	37	-5	11	9000	9	1800	-2	-5	22	1000	17	1	5	.	-2	15	45
470	BN005	35.5709	82.2930	0.2	0.5	5	212	1.0	400	30	-5	8	10000	12	1450	-2	-5	20	1000	10	1	-5	.	-2	-5	40
471	BN006	35.5593	82.2648	0.3	0.4	1	297	1.0	800	37	-5	10	12000	15	1100	-2	5	27	1100	12	-1	-5	.	-2	15	47
472	BN007	35.5026	82.2447	0.5	0.1	0	320	1.5	200	25	-5	3	28000	22	1200	-2	-5	15	1000	-10	-1	-5	.	-2	5	22
473	BN008	35.5309	82.2395	0.2	0.3	1	177	1.0	200	20	-5	2	22000	15	1350	-2	5	5	900	-10	-1	-5	.	-2	10	17
474	BN009	35.5280	82.2053	0.5	0.4	0	257	2.5	1200	37	-5	9	13000	17	2900	-2	10	30	1200	-10	1	-5	.	-2	-5	40
475	BN010	35.5318	82.1782	0.2	0.3	4	202	1.5	600	25	-5	5	14000	12	1450	-2	10	17	1000	10	-1	5	.	-2	5	30
476	BN011	35.5434	82.3782	0.5	0.3		107	1.0	400	27	-5	9	12000	7	1500	-2	5	20	800	-10	-1	-5	.	-2	10	35
477	BN012	35.5583	82.3645	0.2	0.3	0	100	1.0	300	32	-5	11	13000	8	2400	-2	-5	20	800	-10	-1	-5	.	-2	10	42
478	BN013	35.5515	82.4028	0.7	0.2		245	1.5	500	47	-5	15	15000	10	2450	-2	-5	25	1000	12	1	-5	.	-2	5	60
479	BN014	35.5122	82.3791	0.2	0.1	0	260	1.0	400	12	-5	3	25000	11	300	2	10	7	900	-10	-1	-5	.	-2	5	17
480	BN015	35.5229	82.3459	0.2	0.1	0	362	2.0	1000	25	-5	6	20000	10	1350	-2	5	12	1000	-10	-1	-5	.	-2	10	40
482	BN017	35.5108	82.4282	0.2	0.2	1	100	1.0	400	22	-5	7	9000	5	1750	-2	5	10	1000	10	-1	5	.	-2	15	27
487	BN022	35.5124	82.4659	0.8	0.2	2	152	1.0	500	35	-5	11	13000	5	2350	-2	5	27	700	10	1	5	.	-2	10	55
488	BN023	35.5368	82.4320	0.9	0.2	6	62	1.0	600	27	-5	10	13000	8	3850	2	-5	20	1000	12	1	-5	.	-2	15	50
489	BN024	35.5616	82.4896	0.4	0.4	1	152	1.0	400	35	-5	8	10000	5	1400	-2	5	17	1000	12	2	-5	.	-2	10	45
490	BN025	35.5452	82.5104	0.7	0.3	0	207	0.5	400	22	-5	6	16000	-5	1300	2	10	10	1000	10	1	-5	.	-2	10	32
491	BN026	35.5072	82.5228	0.6	0.3		177	1.5	400	50	5	11	11000	16	2050	-2	10	32	1000	12	1	5	.	2	5	82
493	BN028	35.5118	82.5990	0.5	0.3	5	47	-0.5	200	35	-5	11	7000	6	1800	-2	5	20	800	10	1	-5	.	-2	-5	40
494	BN029	35.5440	82.7403	0.8	0.2	2	95	0.5	200	35	-5	14	8000	-5	1400	-2	10	20	1000	15	-1	5	.	2	5	55
495	BN030	35.5332	82.7376	1.3	0.3		202	1.0	700	45	-5	14	10000	-5	700	-2	10	25	1200	15	-1	-5	.	-2	-5	60
496	BN031	35.5529	82.7296	1.0	0.3	3	152	1.0	200	40	-5	14	8000	5	1800	-2	10	22	1000	10	-1	-5	.	-2	10	47
497	BN032	35.5359	82.6876	0.8	0.2	2	122	0.5	400	35	-5	11	10000	-5	1450	-2	5	25	1000	10	-1	10	.	-2	20	45
502	BN037	35.5013	82.7066	0.9	0.4	2	80	0.5	200	32	-5	8	7000	-5	1250	-2	5	15	900	-10	-1	-5	.	-2	-5	32
504	BN039	35.5183	82.6519	0.8	0.1	1	207	0.5	400	37	-5	10	11000	-5	1300	-2	5	17	1000	10	-1	-5	.	-2	-5	37
512	BN047	35.5068	82.5581	0.7	0.2		17	1.0	300	22	11	11	9000	13	1500	-2	15	15	800	12	2	-5	.	2	-5	45
513	BN048	35.5797	82.4623	1.6	0.2		107	1.0	400	22	9	7	11000	-5	450	-2	50	17	1000	10	1	-5	.	-2	-5	30

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
514	BN049	35.5601	82.6307	0.7	0.2		287	0.5	300	47	9	18	7000	5	750	-2	50	32	1000	15	1	-5	.	-2	5	57
515	BN050	35.5640	82.6713	1.5	0.2	1	-5	-0.5	200	10	8	4	6000	-5	1050	-2	100	12	1000	-10	1	-5	.	-2	5	15
516	BN051	35.6541	82.3516	0.9	0.4		282	1.5	400	45	7	14	15000	7	750	-2	30	35	1000	15	1	-5	.	-2	-5	62
517	BN052	35.6053	82.3834	1.4	0.2		27	1.0	300	17	8	6	8000	7	2100	-2	25	17	1000	10	1	-5	.	2	5	22
518	BN053	35.6073	82.3568	1.2	0.6		220	1.5	400	37	7	13	13000	7	2700	-2	15	30	1000	12	1	-5	.	-2	-5	55
519	BN054	35.6410	82.3088	1.6	0.4	2	20	1.0	300	32	7	14	13000	10	1850	-2	15	30	1000	17	1	-5	.	-2	5	72
520	BN055	35.6069	82.3181	1.2	0.2	1	75	1.5	200	20	7	7	12000	11	850	-2	20	12	900	15	1	5	.	-2	5	45
521	BN056	35.6195	82.2820	0.3	0.4	1	17	1.0	200	17	7	5	13000	8	1500	-2	15	12	900	10	1	-5	.	-2	5	27
522	BN057	35.6083	82.4171	1.2	0.3		165	1.5	400	42	7	16	16000	8	2850	-2	20	37	1200	15	1	-5	.	-2	-5	67
523	BN058	35.5696	82.4293	0.9	0.3		132	1.5	400	22	7	6	9000	-5	3200	-2	20	17	900	10	-1	-5	.	-2	-5	40
524	BN059	35.5902	82.4438	1.8	0.3	1	162	1.5	500	22	6	9	13000	5	350	-2	25	20	800	12	1	-5	.	-2	5	40
525	BN060	35.6766	82.3425	1.5	0.5	2	187	1.5	600	35	8	12	9000	-5	1050	-2	40	35	900	15	1	-5	.	-2	5	55
526	BN061	35.7001	82.3125	1.4	0.4	1	227	2.0	700	35	9	10	11000	6	1800	-2	15	20	900	10	1	-5	.	-2	5	55
527	BN062	35.7212	82.3271	1.5	0.5	2	220	1.0	600	42	7	14	9000	6	1400	-2	15	32	600	20	1	5	.	-2	-5	67
528	BN070	35.5794	82.7102	2.3	0.3	1	72	1.0	300	17	9	7	10000	5	800	-2	25	17	1000	-10	-1	-5	.	-2	-5	27
529	BN071	35.5993	82.7385	1.1	0.3	1	200	1.0	900	40	11	13	10000	-5	950	-2	30	30	1000	12	1	-5	.	2	-5	55
530	BN072	35.6248	82.7588	1.1	0.2	1	172	1.5	600	47	9	17	11000	10	1200	-2	50	30	1100	17	1	5	.	-2	-5	57
531	BN073	35.6521	82.7715	0.3	0.2	1	325	1.0	1300	25	10	8	12000	-5	2400	-2	75	20	1100	12	1	-5	.	2	5	32
532	BN074	35.6720	82.7920	0.4	0.3	1	450	1.0	1200	22	18	7	13000	-5	2250	-2	75	20	1000	10	1	-5	.	-2	10	27
533	BN075	35.6526	82.8072	0.4	0.4	1	532	1.0	1200	40	11	10	7000	-5	550	-2	25	35	1000	12	-1	-5	.	-2	10	40
534	BN076	35.6713	82.8116	0.8	0.1	2	297	0.5	800	30	10	7	12000	-5	800	-2	50	27	900	10	1	-5	.	-2	5	35
535	BN077	35.6356	82.8324	1.1	0.4		500	1.0	1200	40	12	13	9000	-5	1300	-2	75	35	1000	12	1	5	.	2	-5	47
536	BN078	35.6566	82.8252	1.5	0.1	1	325	1.0	1400	37	10	11	14000	-5	1250	-2	20	32	900	15	-1	-5	.	-2	-5	42
537	BN079	35.6579	82.8508	1.6	0.5	1	540	1.5	1100	37	10	10	10000	-5	850	-2	20	32	800	15	1	5	.	-2	-5	50
538	BN080	35.6710	82.8596	1.7	0.2	1	260	2.5	700	27	11	13	9000	10	500	-2	25	25	900	15	-1	-5	.	-2	-5	40
539	BN081	35.7012	82.7495	1.1	0.5	1	367	1.5	800	42	9	13	10000	-5	2550	-2	15	32	800	17	1	5	.	-2	-5	55
540	BN082	35.6825	82.7116	1.5	0.4	0	185	1.5	600	37	11	13	9000	5	650	-2	20	25	1000	15	-1	-5	.	-2	5	45
541	BN083	35.6895	82.6928	1.6	0.4		267	1.5	700	35	9	11	12000	-5	750	2	15	27	1000	12	1	-5	.	2	-5	40
542	BN084	35.6563	82.7039	1.2	0.2	1	212	0.5	1000	35	16	9	8000	-5	900	-2	40	20	1100	15	1	-5	.	-2	5	37
543	BN085	35.6494	82.6820	1.8	0.5	2	235	1.0	700	35	12	9	10000	-5	600	-2	35	20	900	10	-1	-5	.	2	-5	35
544	BN086	35.6349	82.7105	1.9	0.1	1	217	1.0	700	35	12	10	10000	-5	1850	2	50	27	1000	10	-1	-5	.	-2	-5	37
545	BN087	35.6232	82.6614	1.4	0.1	5	10	0.5	200	17	11	7	7000	5	1250	3	45	10	1000	10	-1	-5	.	-2	15	22
546	BN088	35.5753	82.6560	1.2	0.2	3	25	1.0	300	22	8	9	10000	5	700	-2	20	15	1100	15	-1	10	.	-2	-5	40
547	BN089	35.5901	82.6262	2.0	0.3	1	115	1.0	200	40	11	12	8000	7	300	3	20	20	900	20	1	-5	.	-2	10	52

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548	BN090	35.6172	82.6246	0.7	0.2	2	15	1.0	100	17	6	8	6000	7	1500	2	5	12	800	12	1	-5	.	-2	-5	32
549	BN091	35.6144	82.5971	0.7	0.1	4	22	0.5	100	10	5	5	5000	-5	600	-2	10	12	800	-10	2	-5	.	-2	5	20
550	BN092	35.6494	82.6230	0.6	-0.1	4	50	0.5	100	12	6	4	8000	5	350	-2	5	-5	1000	-10	3	-5	.	-2	5	20
551	BN093	35.6527	82.6454	0.7	0.1	1	62	0.5	300	15	6	5	7000	-5	1250	-2	15	15	1000	-10	-1	10	.	-2	-5	22
552	BN094	35.6884	82.6310	1.1	0.2	5	107	0.5	600	35	10	13	6000	-5	1050	3	20	30	900	10	1	-5	.	-2	5	41
553	BN095	35.7032	82.6488	1.0	0.3	3	222	1.0	800	45	14	19	8000	-5	2150	-2	-5	35	900	12	-1	5	.	-2	-5	50
554	BN096	35.7168	82.6233	0.5	0.1	1	237	1.5	1100	32	6	13	15000	-5	1300	-2	10	27	1100	10	3	-5	.	-2	-5	40
555	BN097	35.7355	82.6179	0.7	0.3	5	152	0.5	500	30	7	8	16000	-5	1600	-2	10	20	900	-10	2	10	.	-2	-5	22
556	BN098	35.7665	82.5882	0.9	0.2	1	252	1.0	1100	22	8	7	21000	-5	1650	3	20	17	1100	-10	-1	5	.	-2	10	27
557	BN099	35.7441	82.5205	0.8	-0.1	1	87	1.0	600	17	6	7	11000	-5	1600	3	-5	15	900	-10	3	-5	.	2	5	40
558	BN100	35.7327	82.5907	-0.1	0.1	1	250	1.0	1200	32	7	10	15000	-5	1100	2	30	25	1100	-10	1	-5	.	-2	10	36
559	BN101	35.7166	82.5890	0.7	0.2	4	65	1.0	400	17	9	5	10000	-5	1750	2	25	12	900	10	2	-5	.	2	15	25
560	BN102	35.7191	82.5591	0.7	0.2	2	92	1.5	400	20	12	9	8000	5	1250	-2	20	15	1000	10	2	-5	.	-2	10	34
561	BN103	35.7097	82.5359	0.7	0.2	1	50	1.5	300	20	7	12	9000	5	1250	-2	10	17	900	10	3	-5	.	-2	-5	35
562	BN104	35.6874	82.5944	0.7	0.2	1	102	1.5	400	22	8	8	7000	-5	1500	-2	20	22	900	12	1	-5	.	-2	-5	32
563	BN105	35.6825	82.5602	0.9	0.1	1	47	1.0	500	15	8	7	6000	-5	1600	-2	15	17	1000	10	2	-5	.	-2	10	26
564	BN106	35.6822	82.5338	0.7	0.2	2	60	1.0	300	20	8	8	9000	6	1500	-2	10	17	900	10	2	-5	.	-2	-5	35
565	BN107	35.6419	82.5282	0.7	0.2	2	110	1.0	400	22	10	10	4000	-5	550	-2	15	17	1000	12	2	-5	.	-2	-5	40
566	BN108	35.7825	82.5476	0.7	0.2	1	160	1.5	6100	32	9	11	11000	-5	1750	-2	25	30	2900	12	1	-5	.	-2	10	50
567	BN109	35.7867	82.5144	0.7	-0.1	2	102	1.5	900	27	10	11	12000	-5	1700	2	25	30	900	10	2	-5	.	-2	10	44
568	BN110	35.7768	82.4884	0.8	0.4	2	135	1.0	900	20	14	6	11000	-5	1450	-2	15	20	1000	-10	1	-5	.	-2	-5	34
569	BN111	35.7887	82.4455	0.7	0.1	1	312	1.5	900	20	10	10	8000	-5	1600	3	5	17	900	10	-1	5	.	-2	5	40
570	BN112	35.7913	82.4222	0.7	0.2	2	135	1.5	500	25	9	13	9000	-5	1650	-2	10	20	800	10	-1	-5	.	-2	-5	42
571	BN113	35.8056	82.4082	0.7	0.2	1	122	1.5	600	27	7	12	7000	14	950	4	15	25	700	10	2	-5	.	-2	-5	41
572	BN114	35.7919	82.3881	0.8	0.3	2	137	1.5	400	30	10	13	9000	5	2050	-2	5	32	1000	12	-1	-5	.	-2	-5	49
573	BN115	35.7995	82.3671	0.7	0.4	2	122	1.0	400	30	11	10	9000	-5	2000	3	10	22	800	10	2	-5	.	-2	5	49
574	BN116	35.7509	82.4327	0.8	0.4	5	80	1.5	400	25	7	11	6000	-5	1400	2	5	25	800	12	-1	-5	.	-2	5	53
575	BN117	35.7578	82.4040	1.0	0.2	5	72	1.0	300	20	11	9	4000	-5	1400	2	10	17	800	-10	4	-5	.	2	5	33
576	BN118	35.7720	82.3637	0.7	0.4	1	100	1.5	600	37	12	25	7000	-5	1950	3	25	40	700	15	2	-5	.	-2	-5	68
577	BN119	35.7556	82.3556	0.5	0.4	1	105	2.0	900	32	21	19	7000	-5	2050	-2	15	32	700	17	1	5	.	2	10	53
578	BN120	35.7199	82.4033	0.7	0.5	1	110	1.5	900	35	12	17	7000	5	1750	4	20	27	200	12	-1	-5	.	-2	-5	60
579	BN121	35.7475	82.4618	0.7	0.4	1	120	1.5	400	25	9	11	9000	-5	1650	5	25	20	200	12	1	-5	.	-2	15	52
580	BN122	35.7133	82.4701	0.7	0.2	1	30	1.0	400	25	7	11	5000	-5	750	2	15	20	200	12	-1	-5	.	-2	-5	40
581	BN123	35.7035	82.4423	0.7	0.6	6	42	2.0	700	37	6	15	10000	-5	3950	3	10	35	200	20	-1	-5	.	2	-5	57

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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
582	BN124	35.6894	82.4898	0.7	0.4	1	102	1.0	500	22	9	9	9000	-5	1900	2	20	25	200	12	-1	5	.	-2	10	42
583	BN125	35.6105	82.5007	0.7	0.3	2	17	0.5	200	12	6	6	4000	-5	2150	2	15	10	200	-10	2	-5	.	-2	-5	24
584	BN126	35.6105	82.4783	0.8	0.3	6	25	1.0	200	22	7	14	10000	-5	4100	2	15	22	200	10	2	-5	.	-2	-5	38
585	BN127	35.6406	82.4733	0.7	0.3	23	30	1.0	200	17	10	8	5000	-5	1550	2	20	17	400	-10	1	-5	.	-2	-5	23
586	BN128	35.6461	82.4476	0.7	0.2	19	57	1.0	300	17	7	7	6000	-5	1600	3	20	17	200	-10	2	-5	.	-2	15	27
587	BN129	35.6346	82.4159	0.8	0.4	4	72	1.5	600	37	9	16	11000	9	3650	-2	15	32	800	12	-1	-5	.	-2	-5	43
588	BN130	35.6575	82.4046	1.2	0.3	1	52	1.5	500	35	8	15	8000	5	1650	2	40	30	900	10	-1	-5	.	-2	10	40
	HY015	35.5082	82.8637																							
	HY019	35.5117	82.9071																							
	HY020	35.5042	82.9402																							
	HY035	35.5302	82.9211																							
	HY038	35.5079	82.9967																							
	HY039	35.5270	82.9982																							
	HY054	35.5334	82.9613																							
	HY055	35.5350	82.7976																							
	HY056	35.5109	82.8281																							
	HY057	35.5099	82.8086																							
	HY058	35.5168	82.8022																							
	HY061	35.5550	82.8325																							
	HY062	35.5451	82.9067																							
	HY063	35.5487	82.9422																							
	HY070	35.5735	82.8698																							
	HY071	35.5719	82.8318																							
	HY072	35.5968	82.8326																							
	HY073	35.5597	82.8042																							
	HY074	35.5725	82.9569																							
	HY075	35.5744	82.9404																							
	HY076	35.5966	82.9223																							
	HY077	35.6135	82.8987																							
	HY078	35.5962	82.8993																							
	HY079	35.6128	82.8730																							
	HY080	35.6350	82.9436																							
	HY081	35.6769	82.9456																							
	HY082	35.6759	82.9266																							

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
	HY083	35.6916	82.9332																							
	HY084	35.6894	82.9184																							
	HY085	35.7150	82.9303																							
	HY086	35.7128	82.9490																							
	HY087	35.6815	82.9538																							
	HY088	35.6801	82.9812																							
	HY089	35.6564	82.9800																							
	HY090	35.6421	82.9800																							
	HY091	35.6081	82.9710																							
	HY092	35.5867	82.9651																							
	HY093	35.5733	82.7985																							
	HY106	35.7637	82.9899																							
	HY107	35.7649	82.9752																							
2381	MC008	35.8540	82.0110	1.6	0.9	1	230	2.0	600	8	8	29	12000	5	1000	-2	30	10	300	-10	-1	10	.	-2	-5	73
2382	MC009	35.8036	82.0171	1.7	0.5	1	35	1.0	200	-5	19	4	7000	-5	1650	-2	20	10	200	-10	-1	5	.	-2	-5	20
2383	MC010	35.8175	82.0403	2.9	0.7	1	185	1.5	700	8	11	26	5000	-5	1000	2	45	22	300	-10	-1	-5	.	-2	-5	88
2384	MC011	35.8222	82.0767	1.7	0.2	2	132	1.5	300	8	8	12	6000	-5	900	-2	30	7	400	-10	-1	-5	.	-2	-5	63
2385	MC013	35.7957	82.1230	1.2	0.4	1	55	1.5	100	-5	8	6	9000	7	1200	-2	30	7	200	-10	-1	-5	.	-2	-5	28
2386	MC014	35.7913	82.1313	1.6	0.6	1	180	1.5	700	5	10	16	7000	-5	1450	-2	30	5	300	-10	-1	-5	.	-2	10	40
2387	MC015	35.7678	82.0531	1.5	0.4	3	355	2.0	300	-5	8	12	8000	9	800	-2	30	7	400	-10	-1	-5	.	-2	10	55
2388	MC016	35.7370	82.0490	1.4	0.5	2	37	1.0	100	-5	7	4	7000	6	1150	-2	15	-5	300	-10	-1	25	.	-2	-5	20
2389	MC017	35.7361	82.0871	1.6	0.4		202	1.5	200	-5	8	6	8000	-5	450	-2	15	-5	300	-10	-1	-5	.	-2	-5	35
2390	MC018	35.7482	82.0960	1.6	0.3		162	1.0	300	5	-5	.	11000	11	800	-2	-5	.	300	-10	1	15	.	-2	10	48
2391	MC019	35.7335	82.1287	1.6	0.5	2	72	1.0	200	5	-5	8	11000	16	1500	2	5	5	400	-10	2	5	.	-2	10	43
2392	MC020	35.7393	82.1453	1.5	0.4		117	1.0	400	5	-5	13	8000	-5	2150	-2	-5	10	400	-10	2	25	.	-2	-5	43
2393	MC021	35.7352	82.1588	1.5	0.4		130	1.0	700	5	-5	12	11000	-5	1750	-2	20	10	500	-10	2	15	.	-2	10	58
2394	MC022	35.6983	82.1955	1.4	0.4		140	1.0	500	8	-5	11	10000	5	500	-2	10	8	500	-10	-1	20	.	-2	10	60
2395	MC023	35.6872	82.2243	1.4	0.4		122	1.5	300	-5	-5	8	11000	8	1250	-2	5	8	400	-10	3	10	.	-2	20	50
2396	MC024	35.6751	82.1973	1.1	0.3		130	1.0	300	5	-5	7	11000	6	1350	2	20	5	400	-10	1	20	.	-2	-5	45
2397	MC025	35.6550	82.1707	1.6	0.3		190	1.0	200	5	-5	5	9000	8	1150	-2	5	-5	200	-10	1	5	.	-2	-5	25
2398	MC026	35.6344	82.1947	1.5	0.3	2	297	1.5	300	13	-5	14	10000	11	2050	2	25	7	400	-10	1	5	.	-2	-5	70
2399	MC027	35.6578	82.2457	1.4	0.5		200	1.5	200	5	-5	12	14000	10	1950	2	15	5	400	-10	1	5	.	-2	15	100
2400	MC028	35.6626	82.2539	1.6	0.3	1	87	1.5	300	-5	-5	10	10000	7	900	-2	5	-5	400	-10	2	10	.	-2	-5	65
2401	MC029	35.6553	82.2566	1.4	0.3		92	1.0	200	5	-5	9	8000	7	1250	-2	10	5	200	-10	1	5	.	-2	10	55

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
2402	MC030	35.6333	82.2404	1.6	0.4		147	1.5	700	5	-5	11	9000	8	1600	2	5	8	400	-10	1	-5	.	-2	-5	130
2403	MC031	35.6146	82.2292	1.4	0.3		150	1.5	400	10	-5	13	10000	11	700	2	5	8	300	22	-1	-5	.	-2	-5	68
2404	MC032	35.6073	82.2260	2.3	0.4	2	247	1.5	300	8	-5	13	8000	12	1350	-2	25	8	300	-10	2	-5	.	2	-5	48
2405	MC033	35.5657	82.2222	1.6	0.4	1	330	1.0	400	5	5	9	13000	11	1800	2	15	5	400	-10	1	-5	.	-2	5	48
2406	MC034	35.5784	82.1964	1.6	0.3		405	0.5	200	-5	-5	4	11000	7	350	3	5	-5	400	-10	2	5	.	-2	-5	25
2407	MC035	35.5914	82.1716	1.4	0.2		332	0.5	200	-5	-5	4	16000	8	950	-2	5	-5	200	-10	1	15	.	-2	5	20
2408	MC036	35.5621	82.1814	1.2	0.5		142	1.0	600	-5	-5	5	11000	13	1150	-2	10	-5	600	-10	1	-5	.	-2	15	33
2409	MC037	35.5699	82.1570	2.5	0.4		185	1.0	300	5	-5	6	14000	16	1850	-2	20	-5	500	-10	2	-5	.	-2	15	30
2410	MC038	35.6045	82.1276	2.1	0.4	1	37	1.0	-100	-5	-5	5	10000	11	1350	-2	5	-5	200	-10	3	15	.	-2	-5	18
2411	MC039	35.6155	82.1031	2.5	0.4		70	1.0	200	-5	-5	6	10000	15	1550	2	15	7	400	-10	1	10	.	-2	10	23
2412	MC040	35.6292	82.0838	3.1	0.3	2	140	1.0	200	-5	-5	8	9000	14	700	-2	30	-5	600	-10	1	5	.	-2	-5	23
2413	MC041	35.6529	82.1200	2.8	0.3		160	1.0	200	5	5	10	9000	10	1250	-2	30	-5	500	-10	1	-5	.	-2	-5	33
2414	MC042	35.6686	82.1272	2.6	0.4		305	1.5	400	8	-5	8	9000	8	1300	-2	2	-5	400	-10	1	10	.	2	5	43
2415	MC043	35.6708	82.0802	1.1	0.3	1	220	1.0	300	8	-5	10	11000	12	700	-2	35	5	400	-10	1	5	.	2	-5	30
2416	MC044	35.6900	82.0845	2.2	0.3	2	177	0.5	300	-5	-5	7	9000	6	1000	-2	5	-5	500	-10	-1	-5	.	-2	-5	30
2417	MC045	35.7230	82.0896	1.4	0.4	1	292	0.5	400	5	-5	8	7000	-5	1800	-2	10	5	500	-10	-1	5	.	-2	-5	40
2418	MC046	35.7022	82.0290	1.4	0.5	5	347	1.0	300	15	-5	13	15000	8	1350	-2	20	7	400	20	1	-5	.	2	15	83
2419	MC047	35.7241	82.0201	1.4	0.2	1	57	0.5	100	-5	-5	5	10000	6	700	-2	5	-5	200	-10	-1	-5	.	-2	-5	20
2433	MC061	35.6388	82.0135	1.4	0.4	2	150	1.0	200	5	5	8	11000	16	1350	2	20	5	200	-10	1	35	.	-2	-5	38
2436	MC064	35.6330	82.0549	1.5	0.4		57	1.0	100	-5	7	6	9000	9	1000	-2	15	-5	200	-10	2	20	.	-2	5	20
2437	MC065	35.5962	82.0302	2.4	0.4		210	1.5	300	-5	6	6	12000	11	1150	2	20	5	400	-10	2	10	.	-2	15	28
2438	MC066	35.5864	82.0540	2.0	0.7		420	1.5	500	-5	-5	7	11000	15	700	-2	55	5	500	-10	1	-5	.	-2	5	43
2439	MC067	35.5785	82.0405	4.2	0.4	3	677	1.5	200	-5	-5	5	16000	15	600	-2	30	-5	400	-10	1	15	.	-2	-5	28
2440	MC068	35.5638	82.0144	2.1	0.5		102	0.5	200	-5	-5	10	6000	8	1200	-2	25	-5	300	-10	-1	5	.	-2	5	23
2441	MC069	35.5624	82.0602	1.2	0.6		495	1.0	600	-5	-5	6	13000	13	550	-2	20	-5	400	-10	2	5	.	-2	-5	43
2442	MC070	35.5456	82.0981	1.2	0.3	3	557	1.0	600	5	-5	4	10000	7	1700	-2	20	-5	300	-10	1	10	.	-2	-5	23
2443	MC071	35.5304	82.0964	3.4	0.3	2	360	1.0	300	-5	-5	4	17000	12	1200	-2	25	-5	400	-10	1	5	.	-2	-5	23
2714	MD001	35.8006	82.6599	1.2	0.5	2	185	1.0	600	5	12	12	4000	-5	750	2	55	5	300	-10	-1	-5	.	-2	-5	30
	MD002	35.7321	82.7228																						
	MD003	35.7115	82.7753																						
	MD004	35.7011	82.8014																						
	MD005	35.7397	82.8506																						
	MD006	35.7234	82.8799																						
	MD007	35.7011	82.8826																						

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
	MD008	35.7224	82.8547																						
	MD009	35.7504	82.8828																						
	MD010	35.7698	82.8701																						
	MD011	35.7736	82.9049																						
	MD012	35.7860	82.8101																						
	MD013	35.8027	82.8020																						
	MD014	35.8331	82.7819																						
	MD015	35.8538	82.7830																						
	MD016	35.8230	82.7791																						
	MD017	35.8090	82.4932																						
	MD018	35.8228	82.4557																						
	MD019	35.8374	82.4486																						
	MD020	35.8460	82.4582																						
	MD021	35.8557	82.4832																						
	MD022	35.8826	82.4811																						
	MD023	35.8447	82.4994																						
	MD024	35.8324	82.5065																						
	MD025	35.8401	82.5218																						
	MD026	35.8719	82.5198																						
	MD027	35.8048	82.5392																						
	MD028	35.8231	82.5660																						
	MD029	35.7993	82.5864																						
	MD030	35.8054	82.6146																						
	MD031	35.8327	82.6155																						
	MD032	35.8533	82.5963																						
	MD033	35.8734	82.5798																						
	MD034	35.8548	82.6187																						
	MD035	35.8831	82.6255																						
	MD036	35.8343	82.5876																						
	MD037	35.7738	82.6308																						
	MD038	35.7684	82.6162																						
	MD039	35.7519	82.6542																						
	MD040	35.8338	82.6651																						
	MD041	35.8548	82.6722																						

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
	MD042	35.8500	82.7087																						
	MD043	35.8399	82.7203																						
	MD044	35.8533	82.7393																						
	MD045	35.8243	82.7462																						
	MD046	35.7900	82.7615																						
	MD047	35.7549	82.7805																						
	MD048	35.7413	82.7920																						
	MD049	35.7681	82.7411																						
	MD050	35.7885	82.7297																						
	MD051	35.7672	82.7148																						
	MD052	35.7400	82.6919																						
	MD053	35.7870	82.6922																						
	MD054	35.7874	82.6807																						
	MD060	35.9089	82.5287																						
	MD061	35.9388	82.5326																						
	MD062	35.9347	82.5539																						
	MD063	35.9081	82.5908																						
	MD064	35.9243	82.6122																						
	MD065	35.9474	82.6010																						
	MD066	35.9198	82.6720																						
	MD067	35.9290	82.6794																						
	MD068	35.9648	82.6548																						
	MD069	35.9683	82.6338																						
	MD070	35.9529	82.6349																						
	MD071	35.9412	82.6485																						
	MD072	35.9209	82.7015																						
	MD073	35.9217	82.7274																						
	MD074	35.9090	82.7325																						
	MD075	35.9039	82.7071																						
	MD076	35.9138	82.7592																						
	MD077	35.8771	82.7648																						
	MD078	35.9556	82.7570																						
	MD079	35.9655	82.7412																						
	MD080	35.9775	82.7576																						

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
	MD081	35.9336	82.7791																							
	MD082	35.9248	82.8618																							
	MD083	35.9290	82.8783																							
	MD084	35.8995	82.8236																							
	MD085	35.8759	82.8423																							
	MD086	35.8755	82.8836																							
	MD087	35.9034	82.9001																							
	MD088	35.9002	82.8602																							
	MD089	35.8354	82.8589																							
	MD090	35.8211	82.8872																							
	MD091	35.8184	82.9000																							
	MD092	35.8054	82.9103																							
	MD093	35.7831	82.9310																							
	MD094	35.8097	82.8442																							
	MD095	35.9985	82.7020																							
	MD096	35.9921	82.7091																							
	MD100	35.9684	82.6844																							
	MD101	35.9927	82.6617																							
	MT001	35.9244	82.0550																							
2715	MT002	35.8969	82.0220	3.4	0.4		40	1.0	200	10	-5	14	6000	6	3700	-2	20	5	300	-10	-1	-5	.	-2	10	40
2716	MT003	35.8947	82.0696	1.8	0.4		52	0.5	200	5	20	10	3000	-5	2250	-2	25	-5	200	-10	2	-5	.	-2	15	25
2717	MT004	35.8719	82.0651	1.3	0.3		67	1.0	200	5	7	11	4000	-5	2450	-2	40	-5	200	-10	-1	-5	.	-2	10	40
2718	MT005	35.9133	82.0753	1.8	0.5	1	175	1.5	300	8	186	17	10000	11	600	-2	25	5	3200	12	-1	15	.	-2	-5	45
2719	MT006	35.9019	82.1242	2.8	0.5		107	2.0	200	8	15	19	2000	-5	1500	2	40	8	300	-10	-1	15	.	-2	-5	48
2720	MT007	35.9180	82.1450	2.5	0.4	1	152	0.5	300	5	7	17	1000	-5	4550	-2	35	5	100	-10	-1	10	.	-2	-5	28
2721	MT008	35.8476	82.1287	2.8	0.4	0	52	4.5	200	8	6	21	8000	9	4850	-2	30	10	200	15	-1	-5	.	-2	5	110
2722	MT009	35.9570	82.1060	1.2	0.3		187	1.0	200	5	13	10	5000	-5	4650	-2	40	-5	200	10	-1	5	.	-2	-5	28
2723	MT010	35.9697	82.1006	1.1	0.4	0	347	0.5	500	8	25	15	1000	-5	2900	-2	15	-5	200	-10	-1	10	.	2	15	18
2724	MT011	35.9693	82.1395	2.1	0.3		145	1.0	300	8	6	12	15000	-5	2700	-2	45	-5	200	-10	-1	15	.	-2	10	58
2725	MT012	35.9474	82.1463	1.6	0.3	0	80	1.0	300	8	19	13	4000	-5	3250	-2	40	5	300	-10	-1	-5	.	-2	5	38
2726	MT013	35.9417	82.1730	1.2	0.5	0	80	1.0	400	5	15	9	2000	-5	2150	-2	40	-5	200	-10	-1	15	.	2	10	28
2727	MT014	35.9732	82.1796	1.1	0.5		95	1.0	600	5	12	9	3000	-5	2200	-2	25	7	300	-10	-1	20	.	2	-5	33
2728	MT015	35.9933	82.1656	1.2	0.5		187	0.5	700	10	39	12	6000	-5	1550	-2	30	20	400	10	2	10	.	2	-5	53
	RU044	35.5212	82.1979																							

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

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	RU088	35.5097	82.1595																						
	RU095	35.5221	82.0849																						
4630	YN007	35.9818	82.4109	0.8	-0.1	0	462	1.5	800	7	5	9	11000	-5	900	-2	15	10	1000	-10	-1	5	.	-2	5	55
4631	YN008	35.9758	82.4609	0.4	-0.1	0	335	1.0	600	5	-5	8	11000	-5	850	-2	15	10	1100	-10	2	-5	.	-2	-5	30
4632	YN009	35.9644	82.4688	0.4	-0.1	3	350	1.5	300	5	6	6	14000	-5	1000	-2	-5	7	1000	-10	-1	10	.	-2	10	30
4633	YN010	35.9348	82.4638	0.4	-0.1	0	5603	1.0	600	5	7	6	12000	-5	1050	-2	-5	7	1000	-10	-1	-5	.	-2	-5	45
4634	YN011	35.9122	82.4755	0.4	0.1	4	585	1.0	700	5	5	9	11000	-5	800	-2	-5	10	900	-10	-1	-5	.	-2	-5	47
4635	YN012	35.9143	82.4239	0.3	0.2	0	430	1.0	600	10	9	10	12000	-5	1250	-2	5	12	1000	-10	-1	-5	.	-2	5	50
4636	YN013	35.9087	82.4039	0.3	0.1	2	235	1.0	700	5	5	7	13000	-5	1350	-2	5	5	1000	-10	-1	-5	.	-2	-5	32
4637	YN014	35.9499	82.4084	1.1	-0.1	0	257	1.5	800	7	9	7	11000	-5	1850	-2	-5	7	1000	-10	-1	-5	.	2	10	37
4638	YN015	35.9576	82.3781	0.4	0.1	1	212	1.0	1100	12	7	9	10000	-5	1850	-2	15	12	1000	-10	-1	-5	.	-2	-5	45
4639	YN016	35.8658	82.3816	0.7	0.1	1	175	1.0	500	-5	-5	9	7000	-5	650	-2	5	10	1100	-10	-1	-5	.	-2	-5	37
4640	YN017	35.8523	82.4114	0.4	0.2	0	432	1.0	1200	7	8	7	9000	-5	500	-2	-5	7	1200	-10	-1	-5	.	-2	-5	50
4641	YN018	35.8782	82.4148	1.1	0.1		537	1.0	700	7	-5	10	11000	-5	900	-2	20	12	1100	-10	-1	10	.	-2	-5	45
4642	YN019	35.8921	82.3720	0.7	-0.1	3	.	.	500	7	-5	7	.	.	.	-2	20	15	1100		-1	.	.	-2	-5	30
4643	YN020	35.9033	82.3400	1.4	0.2	0	.	.	300	10	6	20	.	.	.	-2	30	12	1500		-1	.	.	-2	5	55
4644	YN021	35.9440	82.3320	0.4	0.2	2	.	.	1000	7	-5	7	.	.	.	-2	-5	10	1100		-1	.	.	-2	-5	32
4645	YN022	35.9644	82.3379	0.4	0.2	1	.	.	900	10	-5	8	.	.	.	-2	5	10	1000		-1	.	.	-2	-5	42
4646	YN023	35.9611	82.3209	-0.1	-0.1	0	.	.	800	10	5	8	.	.	.	-2	15	10	1200		-1	.	.	-2	5	47
4647	YN024	35.9739	82.3059	0.4	-0.1	0	.	.	1200	10	5	8	.	.	.	-2	10	7	1200		-1	.	.	-2	-5	35
4648	YN025	35.9939	82.2875	0.4	0.1	1	.	.	700	32	-5	7	.	.	.	-2	10	422	1000		-1	.	.	-2	-5	32
4649	YN026	35.9737	82.2811	0.4	0.2	0	.	.	800	17	-5	10	.	.	.	-2	10	22	1200		-1	.	.	-2	-5	37
4650	YN027	35.9516	82.2818	0.8	0.2	6	.	.	400	7	5	19	.	.	.	2	15	10	1000		-1	.	.	-2	5	35
4651	YN028	35.9177	82.2640	1.1	0.5	3	.	.	300	7	-5	13	.	.	.	-2	15	12	1000		-1	.	.	2	-5	45
4652	YN029	35.9392	82.2500	0.8	0.5		.	.	300	7	-5	13	.	.	.	-2	15	7	1000		-1	.	.	-2	-5	47
4653	YN030	35.9007	82.2343	1.5	0.1	20	.	.	200	10	6	12	.	.	.	-2	10	10	1000		-1	.	.	-2	-5	50
4654	YN031	35.9546	82.2068	1.2	0.1	3	.	.	400	7	-5	14	.	.	.	-2	10	15	900		-1	.	.	-2	-5	75
4655	YN032	35.9913	82.2043	0.4	0.3		.	.	700	7	5	10	.	.	.	-2	5	17	1000		-1	.	.	2	15	32
4656	YN033	35.9710	82.2290	1.2	0.1	0	62	1.5	700	10	22	16	3000	5	14000	-2	-5	7	800	-10	-1	-5	.	-2	10	37
4658	YN035	35.8702	82.1954	1.5	0.1	0	72	1.5	300	-5	8	6	2000	-5	1100	-2	15	5	1100	-10	-1	-5	.	-2	100	22
4659	YN036	35.9021	82.1824	1.5	0.1	1	57	1.5	200	7	12	7	3000	-5	2550	-2	5	12	1100	-10	-1	15	.	-2	205	20
4660	YN037	35.8526	82.1893	0.8	-0.1	0	90	1.5	500	10	10	16	4000	-5	3200	-2	25	10	1100	-10	1	-5	.	-2	45	55
4661	YN038	35.9286	82.1740	-0.1	0.1	0	170	1.0	800	7	11	10	2000	-5	2850	-2	5	12	1000	-10	-1	-5	.	-2	85	32
4662	YN039	35.8269	82.1897	0.8	-0.1	0	47	2.0	200	7	8	11	5000	8	4550	-2	20	12	1000	-10	-1	-5	.	-2	40	52

ASHEVILLE 100K SHEET - SUPPLEMENTAL SEDIMENT

Lab #	County ID	Lat	Long	Ux ppm	Ag ppm	As ppm	Ba ppm	Be ppm	Ca ppm	Co ppm	Cr ppm	Cu ppm	K ppm	Li ppm	Mg ppm	Mo ppm	Nb ppm	Ni ppm	P ppm	Pb ppm	Se ppm	Sn ppm	Sr ppm	W ppm	Y ppm	Zn ppm
4663	YN040	35.8113	82.2000	0.3	0.1	0	165	1.5	200	10	8	9	5000	7	900	-2	5	10	1100	-10	-1	-5	.	-2	45	50
4664	YN041	35.7997	82.2090	0.4	0.2	0	107	1.5	200	12	6	13	6000	12	900	2	-5	12	900	-10	-1	5	.	-2	5	67
4665	YN042	35.7686	82.1977	1.6	0.1		17	1.5	100	5	6	8	7000	9	5000	-2	5	5	800	-10	-1	5	.	-2	10	47
4666	YN043	35.7432	82.2142	0.7	0.1	0	110	1.5	700	5	5	5	8000	5	400	-2	-5	10	900	-10	-1	5	.	-2	10	45
4667	YN044	35.7440	82.2299	1.1	0.1	0	82	2.0	200	7	5	7	4000	7	950	-2	-5	7	1100	-10	-1	-5	.	-2	45	30
4668	YN045	35.7352	82.2361	1.3	0.1	0	125	1.5	400	7	8	10	4000	5	600	-2	-5	7	1100	-10	-1	5	.	-2	20	47
4669	YN046	35.7208	82.2495	1.0	-0.1	0	72	1.0	200	10	-5	10	6000	5	800	-2	-5	10	900	-10	-1	10	.	-2	5	52
4670	YN047	35.8900	82.2850	1.5	0.3		192	1.5	400	10	7	17	5000	5	850	-2	-5	12	900	-10	-1	5	.	-2	30	65
4671	YN048	35.8258	82.2868	0.5	0.2		232	1.5	300	10	6	17	5000	-5	2000	-2	-5	12	1000	-10	-1	-5	.	-2	45	62
4672	YN049	35.8430	82.3068	1.7	0.2	0	222	1.5	600	10	9	14	4000	-5	700	3	-5	12	1100	-10	-1	10	.	-2	45	57
4673	YN050	35.8262	82.3322	1.2	0.1		137	1.0	200	7	10	9	4000	5	1600	-2	25	10	1000	-10	-1	-5	.	-2	15	45
4674	YN051	35.7924	82.3109	1.0	0.2	0	117	1.0	700	7	16	14	4000	-5	2400	10	-5	17	1200	-10	-1	50	.	-2	15	55
4675	YN052	35.8042	82.3131	1.5	0.3	0	210	1.5	500	7	13	9	7000	-5	1700	-2	5	12	1000	-10	-1	-5	.	-2	40	47
4676	YN053	35.8714	82.3213	0.5	0.1	1	165	1.0	600	10	9	12	6000	-5	2250	-2	-5	12	1100	-10	-1	10	.	-2	-5	57
4677	YN054	35.9143	82.2459	1.0	0.1	1	52	1.0	400	10	14	11	4000	5	1950	3	10	10	1000	-10	-1	-5	.	2	25	40

ASHEVILLE 100K SHEET - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
201	AV509	35.9546	82.0411	6.2	20	0.025	45	6600	21	.	33	2150	-0.1	1.2	38	-0.001
203	AV511	35.9977	82.0206	6.4	10	0.033	37	4900	.	.	12	1180	-0.1	3.3	90	-0.001
218	AV526	35.9311	82.0140	5.2	62	0.025	65	25300	67	.	119	5250	0.3	0.4	281	-0.001
219	AV527	35.9792	82.0128	6.5	30	0.023	91	10000	.	.	71	2670	0.8	0.7	64	-0.001
526	BN502	35.5239	82.2499	6.1	20	-0.002	15	4800	.	.	8	1500	-0.1	0.0	32	-0.001
527	BN503	35.5631	82.3099	6.4	20	-0.002	70	8700	15	.	.	2270	0.6	0.0	33	-0.001
528	BN504	35.5975	82.3168	6.8	15	-0.002	28	3900	.	.	.	690	-0.1	-0.1	15	-0.001
529	BN505	35.6466	82.3075	6.2	10	0.016	54	9400	28	.	.	1440	-0.1	1.6	46	-0.001
530	BN506	35.6236	82.3681	5.4	40	-0.002	35	7200	.	.	.	2450	-0.1	0.0	33	-0.001
531	BN507	35.6509	82.3514	6.4	50	-0.002	49	9200	51	4320	.	3770	-0.1	0.0	32	-0.001
532	BN508	35.6456	82.4154	6.6	25	-0.002	23	4200	19	380	.	1400	-0.1	0.0	25	-0.001
533	BN509	35.5799	82.4214	6.7	50	-0.002	66	7900	113	1010	.	5410	0.6	0.0	54	-0.001
534	BN510	35.5469	82.4806	7.0	65	-0.002	33	4000	56	1910	.	2790	-0.1	0.0	23	-0.001
535	BN511	35.5147	82.4718	6.5	50	-0.002	61	10200	68	.	.	5560	1.3	0.0	50	-0.001
536	BN512	35.5223	82.4303	6.8	110	-0.002	42	7000	.	3270	.	1680	-0.1	0.0	10	-0.001
537	BN513	35.5198	82.3635	6.1	40	-0.002	63	8700	33	1310	.	3910	0.2	0.0	30	-0.001
538	BN514	35.5296	82.3121	6.5	40	-0.002	24	4300	15	550	.	1890	0.2	0.0	12	-0.001
540	BN516	35.5087	82.6025	7.0	90	-0.002	35	4200	60	.	24	2350	-0.1	0.0	12	-0.001
541	BN517	35.5331	82.6256	6.3	40	0.002	6246	11100	20	.	18	2370	-0.1	0.0	25	-0.001
542	BN518	35.5605	82.6084	8.0	190	0.103	.	8800	193	.	78	10130	-0.1	0.5	39	-0.001
543	BN519	35.5714	82.6470	6.3	40	0.008	.	5100	.	.	8	1710	-0.1	0.2	20	-0.001
544	BN520	35.6146	82.6407	6.6	30	-0.002	52	9000	69	1500	.	4290	0.7	0.0	29	-0.001
545	BN521	35.6525	82.6355	6.7	110	0.015	.	6600	16	.	29	2870	0.3	0.1	11	-0.001
546	BN522	35.6195	82.5999	6.6	40	0.007	.	9300	64	.	15	4300	1.4	0.1	37	1.990
547	BN523	35.6242	82.5255	6.3	110	0.006	.	9800	.	1630	.	2420	-0.1	0.0	11	-0.001
548	BN524	35.5160	82.5304	6.3	20	-0.002	64	8100	28	1140	.	2330	0.4	0.0	30	-0.001
550	BN526	35.5210	82.7030	6.0	20	0.023	.	11700	12	.	5	4050	-0.1	1.1	34	-0.001
551	BN527	35.5242	82.7482	6.3	20	-0.002	.	1900	7	180	.	640	-0.1	0.0	8	-0.001
553	BN529	35.5643	82.7360	6.7	30	-0.002	30	3500	8	910	.	1330	-0.1	0.0	20	-0.001
554	BN530	35.5745	82.6952	6.4	40	0.022	75	9100	40	.	19	4120	0.4	0.5	44	-0.001
555	BN531	35.6112	82.7434	7.6	170	0.005	.	3600	156	.	38	3680	-0.1	0.0	9	-0.001
556	BN532	35.5977	82.6889	8.8	20	0.025	.	8600	13	.	.	1710	-0.1	1.2	79	-0.001
557	BN533	35.6582	82.7062	6.5	90	-0.002	22	5600	.	1160	.	3010	0.4	0.0	12	-0.001
558	BN534	35.6552	82.7452	6.2	40	0.014	.	10200	63	1940	.	3390	-0.1	0.3	39	-0.001

ASHEVILLE 100K SHEET - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
559	BN535	35.6609	82.7964	6.4	70	-0.002	13	4500	.	1020	.	2460	0.4	0.0	16	-0.001
560	BN536	35.6586	82.8466	6.6	70	0.020	36	8700	177	2860	.	6620	1.5	0.2	39	-0.001
561	BN537	35.7025	82.7527	6.4	80	-0.002	9	2800	16	1840	.	1370	-0.1	0.0	16	-0.001
562	BN538	35.7036	82.6952	6.5	50	-0.002	58	8800	197	.	66	5240	-0.1	0.0	33	-0.001
563	BN539	35.6982	82.6352	6.7	290	0.020	18	8100	.	4220	.	2790	4.5	0.0	9	-0.001
564	BN540	35.6564	82.5669	6.3	50	-0.002	.	4900	.	.	5	2680	-0.1	0.0	20	-0.001
565	BN541	35.7013	82.5857	7.2	320	0.092	.	20000	122	.	.	10180	1.0	0.2	50	-0.001
566	BN542	35.7509	82.5871	6.8	60	-0.002	74	9400	176	.	63	6750	3.5	0.0	43	-0.001
567	BN543	35.7637	82.5242	6.4	120	0.017	.	12700	113	.	93	9630	1.2	0.1	109	-0.001
568	BN544	35.7923	82.4702	6.8	180	0.092	.	9900	261	.	100	10850	0.4	0.5	39	-0.001
569	BN545	35.7494	82.4620	6.7	50	-0.002	55	8900	76	.	55	9570	0.4	0.0	40	-0.001
570	BN546	35.7055	82.4742	6.3	45	-0.002	54	10700	74	.	64	8220	0.5	0.0	102	-0.001
571	BN547	35.6984	82.5182	6.4	150	-0.002	.	13400	64	.	773	11960	-0.1	0.0	56	-0.001
572	BN548	35.7946	82.4220	6.6	60	-0.002	70	8300	78	.	76	7980	-0.1	0.0	51	-0.001
573	BN549	35.7949	82.3714	7.0	20	-0.002	75	8400	36	.	55	4340	0.3	0.0	76	-0.001
574	BN550	35.7539	82.4159	6.4	30	-0.002	72	9600	.	.	64	5330	-0.1	0.0	69	-0.001
575	BN551	35.7711	82.3635	6.8	20	-0.002	67	9600	30	.	72	5250	0.6	0.0	65	-0.001
576	BN552	35.7003	82.4326	6.6	20	0.019	51	9000	34	.	70	4780	0.3	0.9	63	-0.001
577	BN553	35.6593	82.5338	6.3	180	-0.002	53	10800	109	.	96	7520	-0.1	0.0	65	-0.001
578	BN554	35.6154	82.4732	6.1	40	-0.002	66	8400	48	.	64	5200	-0.1	0.0	56	-0.001
582	BN558	35.5469	82.3541	6.3	40	-0.002	49	9500	20	.	96	6430	0.5	0.0	67	-0.001
583	BN559	35.7953	82.5219	7.2	85	0.012	41	8500	174	.	106	6310	4.3	0.1	70	-0.001
584	BN560	35.5399	82.3572	5.5	35	-0.002	76	10200	52	.	82	4060	-0.1	0.0	86	0.070
585	BN561	35.5072	82.4189	7.1	109	0.111	38	8100	84	.	76	4010	-0.1	1.0	67	-0.001
2722	HY501	35.5287	82.9912	6.3	50	-0.002	.	14300	33	.	40	2940	-0.1	0.0	65	-0.001
2733	HY512	35.7551	82.9984	7.1	25	-0.002	41	8600	105	.	29	5230	-0.1	0.0	339	-0.001
2735	HY514	35.6597	82.9807	6.3	30	-0.002	63	10000	53	.	28	2810	0.3	0.0	92	-0.001
2736	HY515	35.6980	82.9761	6.5	65	-0.002	63	9600	183	.	36	6210	2.1	0.0	72	-0.001
2737	HY516	35.7012	82.9304	6.4	60	0.018	.	11000	67	.	34	6370	-0.1	0.3	106	-0.001
2738	HY517	35.6670	82.9277	6.7	20	0.023	69	9700	12	.	31	2030	-0.1	1.1	88	-0.001
2739	HY518	35.6104	82.9354	6.6	60	-0.002	56	9600	58	.	45	4710	0.4	0.0	96	-0.001
2743	HY522	35.5175	82.8704	6.3	45	0.002	80	10500	51	.	42	3380	0.3	0.0	68	-0.001
2744	HY523	35.5210	82.9160	6.4	20	-0.002	34	8600	31	.	33	2100	-0.1	0.0	80	-0.001
2755	HY534	35.5235	82.8167	6.2	45	-0.002	64	10400	62	.	109	4390	-0.1	0.0	78	-0.001

ASHEVILLE 100K SHEET - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
2756	HY535	35.5629	82.9718	6.9	100	0.030	.	8300	311	.	69	6690	-0.1	0.3	41	-0.001
2757	HY536	35.6114	82.9765	6.6	40	-0.002	52	9700	91	.	34	4280	1.1	0.0	70	-0.001
2758	HY537	35.6155	82.8699	6.6	80	0.003	63	10000	165	.	42	6690	1.8	0.0	121	-0.001
2759	HY538	35.5682	82.9395	6.2	15	-0.002	52	9500	51	.	36	1740	-0.1	-0.1	65	-0.001
2760	HY539	35.5666	82.8647	7.0	150	0.014	51	9000	354	.	.	8490	0.4	0.0	60	-0.001
2761	HY540	35.6101	82.8254	7.3	100	0.022	2271	9800	63	.	53	6270	1.4	0.2	122	-0.001
2762	HY541	35.5690	82.8027	6.6	40	-0.002	69	9900	49	.	34	3770	0.4	0.0	65	-0.001
3142	MC503	35.8326	82.0138	7.1	38	0.052	20	5100	70	2270	.	2770	0.4	1.3	50	-0.001
3143	MC504	35.8313	82.0814	7.5	43	0.045	9	5300	79	2830	.	3050	0.9	1.0	77	-0.001
3146	MC507	35.7909	82.0166	6.8	35	0.045	24	5900	49	400	.	4410	-0.1	1.2	43	-0.001
3147	MC508	35.7429	82.0918	7.1	17	0.033	17	4700	19	960	.	1630	0.3	1.9	36	-0.001
3148	MC509	35.7385	82.1361	7.0	11	0.034	6	4300	31	350	8	1120	-0.1	3.0	37	-0.001
3149	MC510	35.6773	82.2021	6.9	18	0.026	.	4800	28	650	5	1430	0.2	1.4	52	-0.001
3150	MC511	35.6974	82.0812	6.2	22	0.042	13	5000	.	460	6	2970	-0.1	1.9	36	-0.001
3151	MC512	35.6748	82.1218	6.9	15	0.039	13	5100	.	620	.	1760	0.3	2.6	203	0.040
3152	MC513	35.6406	82.1427	8.2	65	5.957	21	4100	43	.	11	M	-0.1	91.6	25	-0.001
3153	MC514	35.6349	82.2046	6.9	17	0.051	.	5000	.	590	4	2280	0.4	3.0	87	-0.001
3154	MC515	35.6608	82.2518	6.2	12	0.031	14	4800	40	840	6	780	-0.1	2.5	40	-0.001
3155	MC516	35.6160	82.2272	7.8	133	0.166	36	10000	112	2910	23	4900	0.2	1.2	51	-0.001
3156	MC517	35.5899	82.1947	5.9	49	0.033	.	8500	.	850	44	3260	0.2	0.6	128	-0.001
3157	MC518	35.5710	82.2514	6.7	20	0.025	18	5100	25	640	5	2150	0.1	1.2	22	0.030
3158	MC519	35.5532	82.1917	6.4	34	0.021	23	3200	40	1000	9	3050	0.3	0.6	21	-0.001
3159	MC520	35.5675	82.1529	6.7	99	0.021	51	M	.	M	45	M	-0.1	0.2	46	-0.001
3160	MC521	35.6010	82.1354	5.8	28	0.031	41	6900	.	970	8	2120	-0.1	1.1	34	-0.001
3161	MC522	35.6043	82.0847	6.9	62	0.066	25	3900	.	2600	25	5410	0.7	1.0	26	-0.001
3162	MC523	35.6452	82.0228	7.2	88	0.017	39	4700	200	2400	59	6770	-0.1	0.1	30	-0.001
3163	MC524	35.6426	82.0738	6.0	28	0.026	34	5000	.	.	12	740	-0.1	0.9	57	-0.001
3164	MC525	35.5966	82.0296	6.8	48	0.028	36	4600	32	1240	19	4250	3.4	0.5	29	-0.001
3165	MC526	35.5511	82.0885	6.7	44	0.028	36	4100	30	760	.	7240	1.0	0.6	26	-0.001
3166	MC527	35.5524	82.0164	5.9	12	-0.002	.	M	.	M	.	M	-0.1	-0.1	.	-0.001
3171	MC532	35.7324	82.0281	7.3	92	0.584	.	4300	172	4100	29	5880	0.3	6.3	27	0.110
3172	MC533	35.7760	82.0514	6.8	22	0.023	17	4300	47	460	.	2810	0.3	1.0	33	-0.001
3173	MC534	35.8032	82.0989	6.8	43	0.170	24	4100	41	.	11	2180	0.1	3.9	25	-0.001
3174	MC535	35.6887	82.0378	6.3	70	0.022	22	8100	.	2980	1	3850	-0.1	0.3	162	-0.001

ASHEVILLE 100K SHEET - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
3184	MC545	35.6470	82.2327	6.0	28	0.018	72	6600	51	.	61	4090	0.3	0.6	78	-0.001
3185	MC546	35.6209	82.1963	6.6	88	0.023	69	9300	62	.	62	6770	1.0	0.2	86	-0.001
3186	MC547	35.5852	82.1622	7.7	48	0.214	66	7000	210	.	69	6160	9.3	4.4	72	0.200
3187	MC548	35.6198	82.1262	7.9	108	0.198	32	7400	890	.	68	6650	0.6	1.8	59	-0.001
3188	MC549	35.6550	82.1697	6.3	38	-0.002	67	6300	79	.	64	5560	0.7	0.0	55	-0.001
3189	MC550	35.6601	82.1403	5.9	41	-0.002	71	9800	43	.	62	5980	0.4	0.0	151	0.120
3190	MC551	35.6475	82.1135	5.5	29	-0.002	73	8900	17	.	73	3070	-0.1	0.0	101	-0.001
3191	MC552	35.6692	82.0853	6.0	38	0.017	49	5900	67	.	74	5200	0.5	0.4	93	-0.001
3192	MC553	35.7062	82.1039	6.3	37	-0.002	40	6700	87	.	75	4900	0.8	0.0	123	0.080
3193	MC554	35.7224	82.0844	5.9	35	0.010	.	13500	22	12080	.	5470	-0.1	0.2	66	-0.001
3194	MD501	35.8186	82.5220	7.0	60	-0.002	20	4500	58	1540	.	2400	1.8	0.0	28	-0.001
3195	MD502	35.8270	82.4777	6.5	70	0.006	637	10800	134	.	30	5440	-0.1	0.0	44	0.160
3196	MD503	35.8217	82.4396	6.7	70	0.004	32	4100	32	1030	.	2080	0.4	0.0	31	-0.001
3197	MD504	35.8548	82.4520	6.4	140	0.025	92	16800	102	5920	.	6660	0.6	0.1	55	-0.001
3198	MD505	35.8814	82.4534	6.6	90	-0.002	22	4900	49	2250	.	2610	0.9	0.0	15	-0.001
3199	MD506	35.8525	82.4830	6.8	60	0.009	75	9200	194	3110	.	4030	1.0	0.1	51	-0.001
3200	MD507	35.8894	82.4775	6.7	90	-0.002	90	13000	319	4660	.	7260	0.6	0.0	27	-0.001
3201	MD508	35.8562	82.5262	7.2	370	0.021	.	15900	1244	.	23	14580	-0.1	0.0	14	-0.001
3202	MD509	35.8880	82.5139	7.1	50	-0.002	51	7800	158	2490	.	4140	2.1	0.0	26	-0.001
3203	MD510	35.9129	82.5198	6.6	40	-0.002	24	3800	33	1140	.	1420	-0.1	0.0	18	-0.001
3204	MD511	35.9474	82.5234	6.9	20	0.016	48	8500	61	450	.	1740	0.3	0.8	35	-0.001
3205	MD512	35.9422	82.5605	6.7	40	-0.002	19	4000	10	.	8	1260	-0.1	0.0	18	-0.001
3206	MD513	35.9186	82.5582	6.4	140	0.010	.	42300	.	.	27	8950	0.6	0.0	19	-0.001
3207	MD514	35.9256	82.6073	6.6	50	-0.002	30	3600	16	.	15	1610	0.3	0.0	21	-0.001
3208	MD515	35.9480	82.6030	7.0	50	-0.002	44	9100	72	1740	.	3850	1.2	0.0	53	-0.001
3209	MD516	35.9198	82.6314	6.8	85	0.105	35	4300	86	1950	.	2880	0.2	1.2	14	-0.001
3210	MD517	35.9490	82.6657	7.3	50	-0.002	53	8100	93	1710	.	3190	1.0	0.0	42	-0.001
3211	MD518	35.9496	82.6423	7.3	30	-0.002	.	3500	26	.	4	1530	-0.1	0.0	17	-0.001
3212	MD519	35.9094	82.6775	6.8	170	-0.002	62	7800	84	2810	.	3820	1.0	0.0	76	-0.001
3213	MD520	35.8833	82.6668	7.3	60	-0.002	32	4200	13	950	.	1530	-0.1	0.0	21	-0.001
3214	MD521	35.8583	82.6763	6.9	100	-0.002	70	9500	109	3110	.	6530	1.0	0.0	55	-0.001
3215	MD522	35.8198	82.6761	6.8	95	0.011	.	4000	39	.	8	2780	0.2	0.1	56	-0.001
3216	MD523	35.7892	82.6398	6.2	125	-0.002	46	10300	179	6810	.	8470	0.5	0.0	59	-0.001
3217	MD524	35.7594	82.6370	7.1	200	2.145	.	4500	51	.	28	3620	-0.1	10.7	14	-0.001

ASHEVILLE 100K SHEET - GROUNDWATER

Lab #	County ID	Lat	Long	pH	Cond um/cm	U ppb	Br ppb	Cl ppb	F ppb	Mg ppb	Mn ppb	Na ppb	V ppb	U/cond x1000	Al ppb	Dy ppb
3218	MD525	35.8198	82.6450	6.6	60	-0.002	64	9700	141	2240	.	4430	1.4	0.0	52	-0.001
3219	MD526	35.8225	82.5911	6.4	60	-0.002	28	4200	47	1100	.	2640	0.8	0.0	16	-0.001
3220	MD527	35.8267	82.5729	6.6	70	-0.002	31	9800	267	4170	.	4220	4.0	0.0	35	-0.001
3221	MD528	35.7950	82.5950	6.3	60	-0.002	37	4400	17	.	20	2400	1.5	0.0	13	-0.001
3222	MD529	35.7901	82.5552	6.6	140	-0.002	31	10100	148	8210	.	6370	1.6	0.0	104	-0.001
3223	MD530	35.8545	82.5595	6.6	50	-0.002	6	4100	53	.	.	2560	0.5	0.0	24	-0.001
3224	MD531	35.8542	82.6052	6.4	80	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3225	MD532	35.8761	82.5714	6.7	60	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3226	MD533	35.8538	82.6277	6.2	70	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3227	MD534	35.8862	82.6418	6.9	70	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3228	MD535	35.8853	82.6068	6.7	45	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3229	MD536	35.8203	82.7104	6.1	110	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3230	MD537	35.8584	82.7273	6.6	40	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3231	MD538	35.8919	82.7518	7.4	420	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3232	MD539	35.9117	82.7574	7.4	30	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3233	MD540	35.9150	82.7249	7.3	110	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3234	MD541	35.8933	82.7148	7.4	90	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3235	MD542	35.9570	82.7599	6.5	45	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3236	MD543	35.9838	82.7645	6.8	60	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3237	MD544	35.9496	82.7222	7.3	80	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3238	MD545	35.9805	82.7181	7.3	40	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3240	MD547	35.9842	82.6713	7.2	25	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3241	MD548	35.9984	82.6472	6.6	40	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3243	MD550	35.8636	82.9052	7.0	45	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3244	MD551	35.8858	82.8743	7.0	40	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3245	MD552	35.9136	82.8711	6.1	100	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3246	MD553	35.8843	82.8284	6.1	20	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3247	MD554	35.8528	82.8540	6.0	30	-0.002	.	M	.	M	.	M	-0.1	0.0	.	-0.001
3248	MD555	35.8494	82.8729	6.1	30	-0.002	11	4100	10	.	.	1490	-0.1	0.0	57	-0.001
3249	MD556	35.8230	82.8736	6.1	80	-0.002	28	5400	60	.	.	3500	-0.1	0.0	27	-0.001
3250	MD557	35.8219	82.9268	6.1	50	-0.002	27	4900	53	630	.	1850	0.1	0.0	19	-0.001
3251	MD558	35.7879	82.9154	6.4	40	-0.002	60	8500	142	620	.	4790	1.2	0.0	49	-0.001
3252	MD559	35.7823	82.9443	6.5	30	0.001	12	3600	.	.	.	1130	0.2	0.0	39	-0.001
3253	MD560	35.7623	82.9283	7.0	70	0.006	17	3600	86	680	.	2370	0.3	0.0	21	-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 x1000	Al ppb	Dy ppb
3254	MD561	35.7506	82.9449	6.4	45	0.021	.	8100	139	.	9	4790	0.4	0.4	40	-0.001
3255	MD562	35.7907	82.8715	6.6	40	-0.002	59	8000	62	1770	.	2600	0.8	0.0	180	-0.001
3256	MD563	35.7134	82.7929	6.2	135	0.174	69	20100	126	.	50	6650	-0.1	1.2	45	-0.001
3257	MD564	35.6927	82.8041	6.4	55	0.026	48	7100	66	1790	.	5900	0.8	0.4	41	-0.001
3258	MD565	35.7254	82.7516	6.9	110	0.016	64	9500	160	6440	.	5520	1.5	0.1	37	-0.001
3259	MD566	35.7297	82.7218	6.8	80	0.012	28	3600	26	1590	.	2480	0.4	0.1	32	-0.001
3260	MD567	35.7623	82.6856	6.2	80	0.014	71	9500	149	.	28	8640	1.2	0.1	54	-0.001
3261	MD568	35.7839	82.6761	6.3	230	-0.002	805	28400	.	.	24	15450	-0.1	0.0	15	-0.001
3262	MD569	35.7684	82.7125	7.7	225	0.344	24	5000	45	1890	.	2350	0.7	1.5	14	-0.001
3263	MD570	35.7923	82.7204	6.5	120	-0.002	72	11900	158	.	256	4840	0.2	0.0	31	-0.001
3264	MD571	35.7646	82.7581	6.7	75	0.027	73	8700	162	3560	.	6790	2.7	0.3	58	-0.001
3265	MD572	35.7497	82.7883	6.7	50	0.033	.	M	.	M	.	M	-0.1	0.6	.	0.210
3266	MD573	35.7887	82.7615	6.6	90	-0.002	21	5000	45	1680	.	2980	0.4	0.0	17	-0.001
3267	MD574	35.8167	82.7534	6.6	40	-0.002	43	7900	38	.	82	2730	-0.1	0.0	62	0.370
3268	MD575	35.8380	82.7631	7.2	90	0.005	6507	12500	85	2440	.	6140	0.8	0.0	107	-0.001
3269	MD576	35.8161	82.7977	6.6	50	-0.002	39	4400	17	410	.	2250	-0.1	0.0	22	-0.001
3270	MD577	35.7884	82.8036	6.3	60	0.028	63	10000	99	2360	.	6000	0.7	0.4	37	-0.001
3271	MD578	35.8392	82.7813	6.6	30	-0.002	61	9500	.	.	7	3910	-0.1	0.0	55	-0.001
3272	MD579	35.8105	82.8533	6.5	75	-0.002	24	4900	36	930	.	2670	-0.1	0.0	21	-0.001
3273	MD580	35.7892	82.8495	6.2	40	0.010	51	10300	227	1730	.	5590	-0.1	0.2	63	-0.001
3274	MD581	35.7597	82.8779	6.3	140	-0.002	34	9200	.	1680	.	3340	-0.1	0.0	28	-0.001
3275	MD582	35.6922	82.8922	6.4	50	0.008	50	9000	103	1940	.	4930	1.7	0.1	41	-0.001
3276	MD583	35.7283	82.8722	6.4	125	-0.002	.	11800	.	.	62	7090	-0.1	0.0	25	-0.001
3277	MD584	35.7426	82.8470	6.6	65	-0.002	49	10700	85	1660	.	6590	-0.1	0.0	21	-0.001
3278	MD585	35.7210	82.8395	6.3	50	-0.002	.	4700	.	.	5	2580	-0.1	0.0	15	-0.001
3518	MT501	35.9750	82.1415	6.6	50	-0.002	73	10500	73	.	44	5030	-0.1	0.0	93	-0.001
3519	MT502	35.9757	82.0995	6.4	60	-0.002	.	9400	42	.	45	3050	-0.1	0.0	52	-0.001
3520	MT503	35.9409	82.1215	6.8	135	0.553	62	9400	167	.	126	8420	0.3	4.1	40	-0.001
3521	MT504	35.9334	82.0756	6.3	30	0.015	80	10200	26	.	36	4050	-0.1	0.5	56	-0.001
3522	MT505	35.9308	82.0243	6.0	10	0.006	.	10000	.	.	32	1780	-0.1	0.6	48	-0.001
3523	MT506	35.8882	82.0121	5.7	20	0.030	69	11600	.	.	34	2910	-0.1	1.5	53	-0.001
3524	MT507	35.8860	82.0636	6.2	30	0.803	.	9800	48	.	42	5850	-0.1	26.7	48	-0.001
3525	MT508	35.8909	82.1247	6.6	30	0.063	41	9000	17	.	46	3610	1.3	2.1	125	-0.001
3526	MT509	35.8455	82.1344	6.3	20	0.010	41	11400	.	.	43	3390	0.6	0.5	61	-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 x1000	Al ppb	Dy ppb
3527	MT510	35.9239	82.1176	6.0	21	-0.002	69	8100	39	.	43	3290	0.4	0.0	80	-0.001
3528	MT511	35.9613	82.1078	6.8	89	0.012	76	7400	138	.	86	6010	-0.1	0.1	66	-0.001
3529	MT512	35.9315	82.0855	5.8	25	0.040	42	7400	15	.	43	3730	-0.1	1.6	61	0.050
3530	MT513	35.9119	82.0970	6.3	25	0.118	54	7000	49	.	51	4300	0.2	4.7	83	-0.001
3531	MT514	35.8986	82.0769	6.2	47	0.078	68	11800	14	.	76	6750	-0.1	1.6	83	-0.001
3532	MT515	35.8921	82.0690	5.6	71	0.066	52	15800	30	.	72	6510	-0.1	0.9	103	-0.001
3533	MT516	35.9169	82.0384	6.2	21	-0.002	31	6100	10	.	53	1590	-0.1	0.0	79	-0.001
4615	RU526	35.5285	82.0592	6.7	146	0.126	.	36700	.	3040	.	23950	-0.1	0.8	23	-0.001
4617	RU528	35.5272	82.1721	8.1	471	2.487	.	M	2705	M	11	M	-0.1	5.2	31	-0.001
4646	RU557	35.5292	82.0897	6.2	29	-0.002	62	8800	16	.	80	3260	0.4	0.0	64	-0.001
4648	RU559	35.5002	82.1368	6.4	37	0.237	46	7400	63	.	60	6500	1.0	6.4	51	-0.001
4649	RU560	35.5078	82.1556	6.2	25	0.080	62	6800	45	.	62	5310	-0.1	3.2	50	-0.001
5742	YN501	35.9433	82.4653	6.2	30	0.002	40	10300	80	.	50	2840	0.2	0.0	72	0.120
5743	YN502	35.9750	82.4597	6.2	25	0.008	48	9200	42	.	39	3740	-0.1	0.3	93	-0.001
5744	YN503	35.9831	82.4063	6.3	60	-0.002	57	9500	137	.	51	5400	1.1	0.0	68	-0.001
5750	YN509	35.8828	82.4078	6.4	30	-0.002	81	8400	67	.	.	2920	-0.1	0.0	79	-0.001
5751	YN510	35.8424	82.4164	6.6	50	-0.002	48	8900	49	2510	.	3500	0.9	0.0	107	-0.001
5752	YN511	35.8502	82.3869	6.3	100	-0.002	42	12200	16	.	63	5240	1.0	0.0	96	-0.001
5753	YN512	35.8833	82.2974	6.5	60	-0.002	47	9900	61	4150	.	2920	-0.1	0.0	71	-0.001
5754	YN513	35.8440	82.3105	6.6	20	0.004	55	8400	22	.	10	2180	-0.1	0.2	52	-0.001
5755	YN514	35.9852	82.3454	6.4	90	0.038	2919	8500	101	.	.	4520	1.0	0.4	95	-0.001
5756	YN515	35.9848	82.2990	6.7	85	-0.002	45	9400	166	4540	.	5020	0.6	0.0	45	-0.001
5757	YN516	35.9400	82.3468	6.7	100	0.030	.	9800	159	.	59	5860	0.3	0.3	73	-0.001
5758	YN517	35.9311	82.4121	6.8	100	-0.002	78	11100	77	5560	.	4520	2.0	0.0	70	-0.001
5759	YN518	35.8875	82.3743	6.8	45	-0.002	54	10800	30	3900	.	1850	-0.1	0.0	67	-0.001
5760	YN519	35.9855	82.2458	6.6	80	-0.002	.	8800	189	.	31	6050	1.3	0.0	100	-0.001
5761	YN520	35.9736	82.2006	6.6	40	0.001	37	8200	36	.	24	1790	0.5	0.0	60	-0.001
5762	YN521	35.9317	82.2540	6.2	85	0.138	.	13500	.	.	42	4120	0.3	1.6	52	-0.001
5763	YN522	35.9340	82.2999	6.6	30	-0.002	37	7300	39	.	15	3460	-0.1	0.0	68	-0.001
5764	YN523	35.9249	82.1871	6.6	50	0.038	25	6200	47	3530	.	3250	0.4	0.7	57	-0.001
5765	YN524	35.8107	82.3137	9.8	90	0.013	57	8800	20	.	19	2870	1.8	0.1	156	-0.001
5766	YN525	35.8103	82.2778	8.6	20	-0.002	52	8900	40	.	22	1330	-0.1	0.0	121	-0.001
5767	YN526	35.8935	82.2539	7.0	60	0.001	51	9800	59	.	.	3110	0.3	0.0	59	-0.001
5768	YN527	35.7962	82.1992	6.2	15	-0.002	28	8200	21	.	54	1600	-0.1	-0.1	81	-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 x1000	Al ppb	Dy ppb
5769	YN528	35.8550	82.2238	6.6	40	-0.002	46	7900	25	.	30	1760	0.3	0.0	54	-0.001
5770	YN529	35.8335	82.1843	6.4	25	0.084	67	9100	17	.	22	1720	-0.1	3.3	61	-0.001
5771	YN530	35.7695	82.2637	6.5	30	-0.002	64	10300	.	.	33	1570	0.4	0.0	101	-0.001
5772	YN531	35.7618	82.1827	6.5	20	-0.002	63	9000	.	.	24	1600	-0.1	0.0	88	-0.001
5773	YN532	35.8853	82.1827	6.1	60	0.038	.	12500	.	.	24	3520	-0.1	0.6	63	-0.001
5774	YN533	35.7308	82.2877	6.2	10	0.038	46	6900	27	.	13	1110	-0.1	3.8	52	-0.001
5775	YN534	35.8846	82.2197	5.7	45	0.013	56	14000	11	.	35	4100	-0.1	0.2	72	-0.001
5776	YN535	35.9489	82.2446	6.2	38	-0.002	65	6300	16	3410	.	2890	0.6	0.0	62	-0.001
5777	YN536	35.9059	82.2052	5.0	108	0.028	.	13500	45	.	144	4320	-0.1	0.2	317	-0.001
5778	YN537	35.8892	82.1510	5.8	69	-0.002	.	13700	30	.	65	3800	-0.1	0.0	66	-0.001