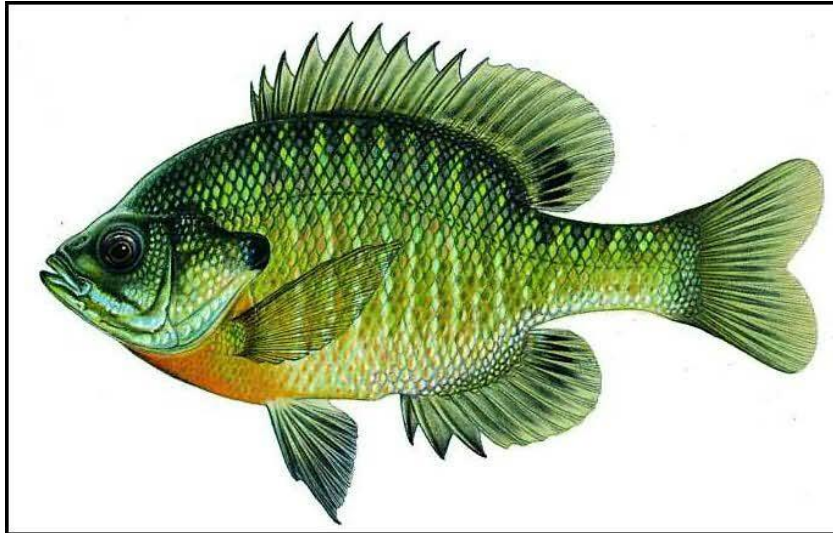


SELENIUM BIOACCUMULATION AMONG SELECT STREAM AND LAKE FISHES IN WEST VIRGINIA



PREPARED BY:



west virginia department of environmental protection

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STUDY OVERVIEW

Due to the USEPA's publication of a draft national recommended whole-body tissue criterion for selenium, it was determined that a study designed to elucidate the factors and impacts of selenium bioaccumulation among select fish species, including bluegill sunfishes, found in the surface waters of West Virginia was warranted. This research emphasized the correlation of observed whole-body tissue concentrations of selenium in fishes to in-stream selenium quantities in both lotic and lentic environments, and comparison of those tissue concentrations to EPA's proposed whole-body chronic exposure tissue criterion of 7.91 $\mu\text{g/g}$ (dry weight selenium). Particular attention was given to the more susceptible sunfishes (family Centrarchidae) in regard to bioaccumulation; however, the bioaccumulation rates of many other species found in potentially impacted and reference aquatic systems were also researched. Site-specific water quality information, whole fish tissue concentrations, and bioaccumulation factors for selenium among select species of stream and lake fishes were derived from 18 locations (Fig. 1), beginning 1 November, 2005, and continuing to 20 July, 2007.

EXPERIMENTAL

WATER CHEMISTRY

Water chemistry monitoring occurred at 18 sites with known or suspected elevated levels of selenium, as well as reference locations (Fig. 1). Monitoring sites were identified after researching information contained in the Total Maximum Daily Load (TMDL), Watershed Assessment, Mining and Industrial Permitting Section databases. Generally, selected stream and lake monitoring locations were downstream of surface mining/valley fill areas and fly ash disposal sites, with the exception of the uninfluenced control sites. Waterborne selenium concentrations were monitored monthly at these locations for one year, and were analyzed at minimum detection limits of ≤ 1 ppb ($\mu\text{g/L}$). Physicochemical information regarding dissolved oxygen, pH, temperature, and specific conductance were also obtained for each monitoring event. Chemical analyses for other water quality constituents (copper, mercury, lead, zinc, cadmium, arsenic, and sulfates) were performed quarterly to elucidate potential antagonistic relationships in selenium bioaccumulation. At lotic sites, stream flow was measured during each sampling event in cubic feet per second (cfs). At lentic stations, depth stratified water samples were

periodically collected to identify any layering of waterborne constituents within the water column. All study information regarding water chemistry analyses of selenium are located in Appendix A; comprehensive water quality data are also provided in the attached CD.

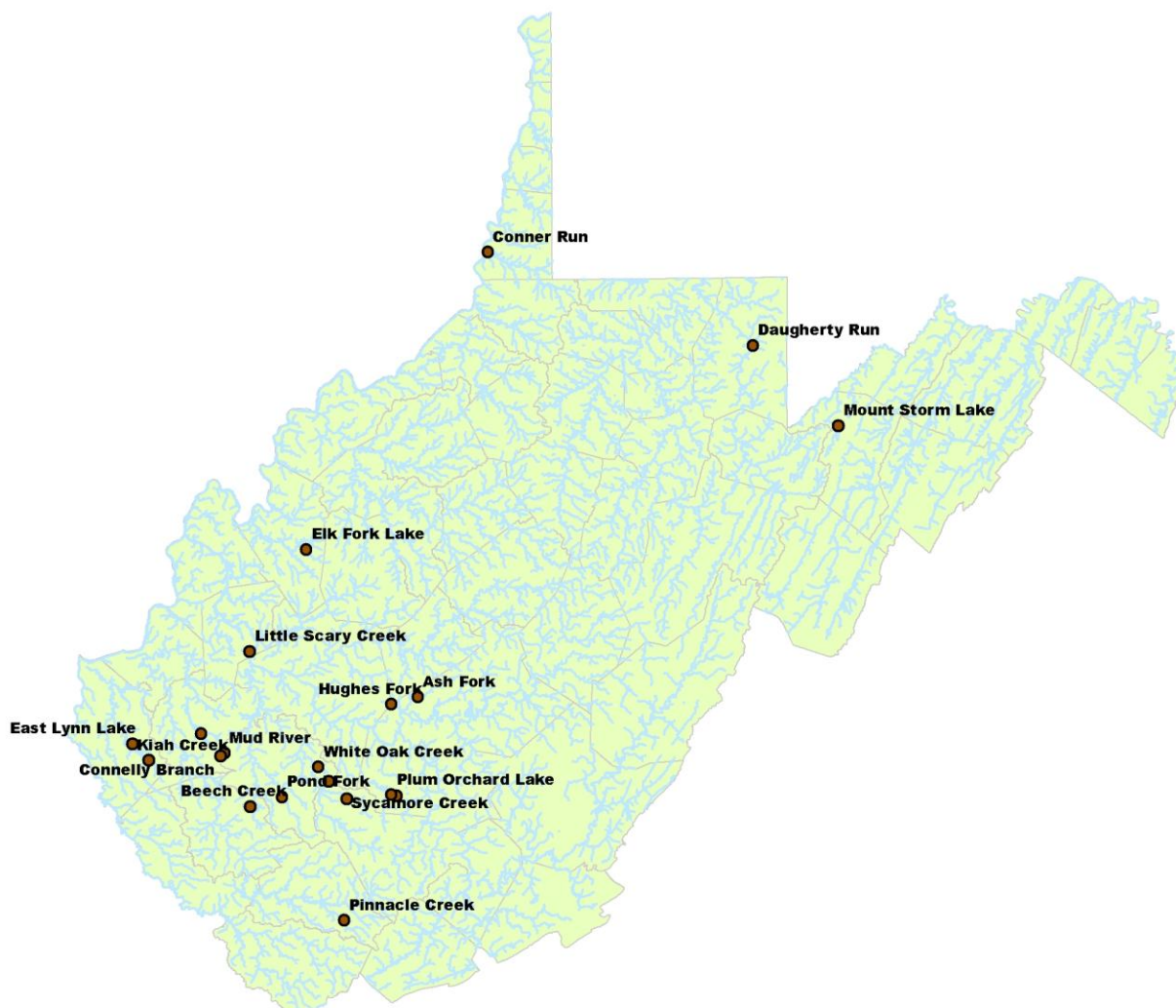


Figure 1. Streams and lakes selected for selenium water quality and/or fish tissue (bioaccumulation) monitoring.

FISH TISSUE

Stream fishes at study locations were collected by backpack electroshocking efforts; whereas, lake fishes were collected by both hook and line and electroshocking methods. Several species, including bluegill, green sunfish, creek chub, central stoneroller, rockbass, and white sucker, were selected for whole-body tissue analysis of selenium, and provide a means for bioaccumulation comparisons among organisms and sites. Fish collections occurred once in each of two seasonal groups (summer/fall and winter/early spring) at study locations. Collected specimens were individually labeled (tagged), double bagged, and iced to 4°C in transit to storage; specimens were stored at <0° C in preparation for laboratory tissue analysis. Tissue analysis to determine whole-body concentrations of (dry weight) selenium ($\mu\text{g/g}$, or micrograms of selenium per gram of fish tissue), was prescribed for all specimens, facilitating comparison to EPA's draft whole-body chronic exposure tissue criterion of 7.91 $\mu\text{g/g}$ (dry weight selenium) for bluegill sunfish (USEPA, 2004). Individual fish were analyzed for whole tissue selenium concentrations as well as composite samples of smaller species, representing as many as seven fish per collection event, in order to achieve a desired minimum sample weight of 5 g. A thorough inspection of all fishes for anomalies/disease was completed, with particular attention given to overall fitness and the symptoms of Winter Stress Syndrome (Lemly, 1993). Other species were preserved (frozen as whole specimens) during the collection efforts for potential future analyses.

WATERBORNE SELENIUM SPECIATION

In August, 2006, eight sample locations were selected for analysis of waterborne selenium in regard to the proportion of selenite, selenium in the IV (Se^{+4}) valence state, to selenate, selenium in the VI (Se^{+6}) valence state. Bioaccumulative differences between these selenium species are reported from the literature (USEPA, 2004) along with their potential to occur as a result of certain seleniferous inputs. Frontier GeoSciences, Inc., Seattle, WA, was selected to perform the speciation analysis of the waterborne selenium obtained from the study locations. An additional seven locations were analyzed for waterborne selenium species in June, 2008; the result of those analyses are located in Table 2 (see Results).

BIOACCUMULATION FACTORS

Upon collection, analysis and performance of appropriate final quality assurance/quality control measures, the data were used in a series of bioaccumulation rate calculations following EPA protocols (USEPA, 1987). Independent calculations were used to derive the bioaccumulation rates of each fish, collected from streams or lakes. The following equation was used to calculate bioaccumulation factors for the collected fish:

$$\text{BAF} = \text{Tissue Concentration} / \text{Water Column Concentration}$$

Combinations of site-specific bioaccumulation factors and tissue concentrations of selenium were also calculated; the results of those groupings were examined for potential similarities and are reported in Table 3 (see Results).

RESULTS

WATER QUALITY

Measured waterborne concentrations of selenium at the 18 study locations were variable and representative of potential seleniferous inputs (Table 1 and Appendix A). Average water column concentrations of selenium in streams ranged from <1.0 ppb¹ ($\mu\text{g/L}$) at the reference site, Ash Fork (Fig. 1), to 49.7 ppb at Conner Run, which is influenced by upstream fly ash deposition. Among lentic environs, average waterborne selenium concentrations ranged from <1.0 ppb at reference locations to 3.4 ppb at the Upper Mud River Reservoir, which is influenced by upstream mining activities. Among streams influenced by mining activities, Seng Creek had the highest average concentration of waterborne selenium at 27.2 ppb; whereas, similarly grouped Kiah Creek averaged a waterborne selenium concentration of 1.6 ppb. Neither lentic nor lotic sites categorized as reference averaged more than 1.0 ppb, waterborne selenium concentration.²

SPECIATION ANALYSIS

From 28 August, 2006, through 30 August, 2006, samples from eight study locations were collected for analysis of waterborne selenium species, or determination of the valence state of the selenium present in waterborne concentrations. An additional seven samples were analyzed for waterborne selenium species in June, 2008. These values are included in Table 2. Of significance, the two stream locations representing influence by fly ash deposition, Conner Run and Little Scary Creek, exhibited valence state selenium almost exclusively in the selenite (Se^{+4} , IV) form, which is reported to be more bioaccumulative (USEPA, 2004). Whereas, other stream locations impacted by upstream mining activities, were shown to contain waterborne selenium predominantly in the selenate (Se^{+6} , VI) form. Analysis of water collected from another stream, Sycamore Creek, revealed total inorganic selenium concentrations of 0.123 ppb, comprised of selenate selenium at concentrations of 0.073 ppb and selenite selenium at concentrations of <0.05 ppb, below the laboratory's minimum detection limit.

¹ This value represents the analytical laboratory's minimum detection limit for selenium. In calculations involving bioaccumulation rates, 1.0 ppb was used when values of <1.0 ppb were reported from the laboratory.

² The dataset representing water chemistry, fish tissue, and bioaccumulation factors from Sycamore Creek were not incorporated into similarly categorized locations in derivation of average values. See Excluded Data for additional information.

Table 1. Average water chemistry, whole fish tissue concentrations, and bioaccumulation factors for selenium at study locations.

Site	Stream Code	Avg. Water Column Conc. (ppb)	Avg. Fish Tissue Conc. (ppm)	Avg. Sunfish Tissue Conc. (ppm)	Avg. Minnow Tissue Conc. (ppm)	Avg. BAF (L/kg)
Fly Ash Influenced Streams		39.65	33.21	15.83	41.23	914
*Daugherty Run	WVMC-19	1.00	1.48	1.56	1.49	1476
Little Scary Creek	WVK-31	31.50	40.43	6.20	54.69	1283
Conner Run	WVO-77-A	47.80	25.99	25.46	27.76	544
Fly Ash Influenced Impoundments		1.30	3.80	3.80	NA	2915
Mount Storm Lake	WVPNB-17-(L1)	1.30	3.80	3.80	NA	2915
Mining Influenced Streams		9.39	6.21	6.07	5.74	1179
Beech Creek	WVKC-10-T-15	12.30	7.55	7.34	7.64	613
Pond Fork	WVKC-10-U	2.40	3.64	4.03	2.76	1515
White Oak Creek	WVKC-35	15.80	6.77	7.12	6.42	428
Seng Creek	WVKC-42	27.20	8.16	NA	8.16	300
Hughes Fork	WVKG-5-B-4	5.30	7.97	NA	7.97	1503
Pinnacle Creek	WVOG-124	2.50	6.02	6.78	5.11	2520
Kiah Creek	WVO-2-Q-18	1.60	2.70	2.73	2.68	1690
Mud River	WVOGM	8.00	6.89	8.43	5.20	862
*Sycamore Creek	WVKC-47-E	1.00	4.00	NA	4.00	4448
Mining Influenced Impoundments		2.25	13.04	13.04	NA	4783
Upper Mud River Reservoir	WVOGM-(L1)	3.50	23.11	23.11	NA	6601
East Lynn Lake	WVO-2-Q-(L1)	1.00	2.96	2.96	NA	2965
Reference Stream		0.94	2.50	NA	2.50	2500
Ash Fork	WVKG-5-H	0.94	2.50	NA	2.50	2500
Reference Impoundments		1.00	1.36	1.36	NA	1364
Elk Fork Lake	WVO-32-M-(L1)	1.00	1.03	1.03	NA	1033
Plum Orchard Lake	WVK-65-Z-(L1)	1.00	1.69	1.69	NA	1694

*Not used in derivation of averages

Table 2. Analytical Results of Selenium Speciation Study.

Site	Total Inorganic Selenium (ppb)	Se ⁺⁴ (ppb)	Se ⁺⁶ (ppb)	% Selenite, Se ⁺⁴	% Selenate, Se ⁺⁶
Sycamore Creek	0.123**	0.05*	0.073	NA	NA
Seng Creek	21.898	0.858	21.040	3.9	96.1
White Oak Creek	13.602	0.752	12.850	5.5	94.5
Beech Creek	13.505	0.485	13.020	3.6	96.4
Little Scary Creek	32.600	30.600	2.000	93.9	6.1
Mud River	4.852	0.242	4.610	5.0	95.0
Hughes Fork	2.451	0.331	2.120	13.5	86.5
Conner Run	60.300	59.800	0.500	99.2	0.8
Toe Pond at Connelly Branch	16.910	0.410	16.500	2.4	97.6
Right Fork of Upper Mud River Reservoir	8.852	0.352	8.500	4.0	96.0
Left Fork of Upper Mud River Reservoir	0.384**	0.192*	0.192*	NA	NA
Tailwaters of Upper Mud River Reservoir	3.245	0.285	2.960	8.8	91.2
Beech Bottom Creek of POL	0.384**	0.192*	0.192*	NA	NA
Plum Orchard Lake (POL)	0.384**	0.192*	0.192*	NA	NA
Tailwaters of POL	0.384**	0.192*	0.192*	NA	NA

*Represents datum at analytical minimum detection limit

**Derived from calculation of one or more values at analytical minimum detection limit

FISH TISSUE

Average whole fish tissue concentrations of selenium in fishes collected from study locations ranged from 1.03 ppm (mg/L) at Elk Fork Lake, a reference impoundment, to 40.43 ppm at Little Scary Creek, which is influenced by upstream fly ash deposition (Table 1 and Appendix B). Among categorized locations, streams influenced by fly ash disposal contained fishes with the highest average whole body selenium concentrations, 39.65 ppm; whereas, the reference stream contained fishes that averaged 2.50 ppm, tissue selenium concentration. Locations categorized as reference impoundments had fishes with the lowest average whole tissue selenium concentrations, 1.36 ppm, while fishes residing in impoundments influenced by upstream mining activities averaged whole tissue selenium concentrations of 13.04 ppm. Fishes collected from the study impoundment influenced by fly ash deposition contained, on average, 3.80 ppm, whole

tissue selenium concentration. In examination of selenium accrual among like groups of fishes, sunfishes (family Centrarchidae) exhibited the highest average whole tissue selenium concentrations at Conner Run, 25.46 ppm, followed by the Upper Mud River Reservoir, 23.11 ppm, and the Mud River, 8.43 ppm. Minnows (family Cyprinidae) contained the highest average concentrations of whole tissue selenium in Little Scary Creek, 54.69 ppm, followed by Conner Run, 27.76 ppm, and Seng Creek, 8.16 ppm. All values representing whole tissue selenium concentrations for individual fish are found in Appendix B, and comprehensive tissue data, including potential selenium-antagonist tissue concentrations, are located in the provided CD.

BIOACCUMULATION

Bioaccumulation factors (rates) were calculated for all fishes collected and analyzed for tissue selenium concentrations during the study. Average water chemistry concentrations of selenium were used to represent study locations sampled multiple times.³ Analytical results of whole tissue selenium concentrations were then divided by the corresponding average water chemistry value. The resulting rates, representing bioaccumulation of selenium in whole fish tissues, are reported in liters per kilogram (L/kg), Table 1. The study location with the highest degree of whole tissue selenium bioaccumulation was the Upper Mud River Reservoir, where fishes accrued selenium at 6601 (L/kg), on average. In comparison, fishes collected from Plum Orchard Lake, on average, accrued whole tissue selenium at a rate of 1694 (L/kg). Among categorized locations, mining influenced impoundments contained fishes that exhibited the highest levels of bioaccumulated selenium and, on average, accrued whole tissue selenium at a rate of 4783 (L/kg).

EXCLUDED DATA

Water quality data from Sycamore Creek, initially representing a reference location, was not included in average values derived for waterborne selenium concentrations for reference streams due to upstream mining activities that may have influenced fish tissue selenium concentrations. Fishes collected from the Sycamore Creek study location exhibited elevated tissue selenium concentrations above expected background levels; fishes collected on 19 April, 20007, averaged 13.37 ppm, whole tissue selenium concentration. This overall increase in selenium body burden may be attributed to selenium deposition via historic, pre-law mining in the watershed as well as some current mining activities; although, increased waterborne selenium concentrations were not detected through water chemistry monitoring.

Water quality data from Daugherty Run, initially representing a fly ash influenced stream, was not included in average values derived for waterborne selenium

³ In bioaccumulation rate calculations involving water quality data reported at <1.0 ppb, the minimum laboratory detection limit of 1.0 ppb was used; although, actual waterborne exposure may be inferred as <1.0 ppb.

concentrations for fly ash influenced streams due to upstream measures that have prevented selenium exposure to erosion processes. Fly ash deposition in this drainage was not influencing (elevating) waterborne selenium concentrations or whole fish tissue selenium concentrations because of dry landfilling deposition; therefore, both water chemistry and fish tissue selenium concentrations measured at Daugherty Run were not included among other data representing fly ash influenced streams in determination of average values for these constituents among the group.

Analytical data regarding whole fish tissue concentrations of selenium performed by the WVU-NRCCE laboratory are reported in Appendix B; however, the values are not included in the dataset used to calculate bioaccumulation factors for individual fish at study locations. The WVU-NRCCE data was excluded due to discrepancies among results as compared to values derived by other analytical laboratories, quality assurance concerns, and analytical methods less resolute than required in the study. The fishes analyzed by the WVU-NRCCE laboratory represent an early spring sample event, from 21 March, 2006, through 26 April, 2006. A replacement collection of early spring fishes was conducted 19 April, 2007, through 3 June, 2007.

Analytical results derived from certain ICP (inductively coupled plasma) methods were excluded from the dataset used to calculate bioaccumulation factors for individual fish at study locations, but are reported in Appendix B. Upon comparison of ICP versus graphite furnace analytical methods, January, 2007, BioChem Testing, Inc., recommended the use of graphite furnace techniques, without HCl addition, over ICP methods in the analysis of whole fish tissue for selenium concentrations. The recommendations were issued in order to maintain appropriate detection limits, required in the study, as well as achieve the most accurate results for all tissues analyzed; however, it was noted that ICP methods should yield reliable data for the analysis of fish tissue. ICP methods used by REI Consultants in the derivation of whole fish tissue concentrations of selenium and are included in the dataset of bioaccumulation calculations.⁴

LITERATURE CITED

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⁴ The exclusion of one datum, representing a whole fish tissue selenium concentration for a bluegill collected from Plum Orchard Lake, 17 April, 2007, was deemed necessary after comparison of analytical results with other values representing individual fishes at that location revealed large discrepancies.

Appendix A. Water chemistry results for waterborne selenium concentrations at study locations.

Waterbody Name	Code	Mile	Date	Q	Total Se (mg/L)
Beech Creek	WVKC-10-T-15	1.4	11/30/2005		0.007
Beech Creek	WVKC-10-T-15	1.4	12/13/2005		0.012
Beech Creek	WVKC-10-T-15	1.4	1/4/2006		0.007
Beech Creek	WVKC-10-T-15	1.4	2/8/2006		0.018
Beech Creek	WVKC-10-T-15	1.4	3/15/2006		0.007
Beech Creek	WVKC-10-T-15	1.4	4/13/2006		0.01
Beech Creek	WVKC-10-T-15	1.4	5/3/2006		0.016
Beech Creek	WVKC-10-T-15	1.4	6/13/2006		0.008
Beech Creek	WVKC-10-T-15	1.4	7/12/2006		0.022
Beech Creek	WVKC-10-T-15	1.4	8/23/2006		0.018
Beech Creek	WVKC-10-T-15	1.4	9/20/2006		0.009
Beech Creek	WVKC-10-T-15	1.4	8/28/2006		0.0135
Beech Creek	WVKC-10-T-15	1.4	10/17/2006		0.006
Beech Creek	WVKC-10-T-15	1.4	4/26/2007		0.019
Pond Fork	WVKC-10-U	15.8	11/29/2005		0.0014
Pond Fork	WVKC-10-U	15.8	12/13/2005		0.0015
Pond Fork	WVKC-10-U	15.8	1/4/2006		0.0014
Pond Fork	WVKC-10-U	15.8	2/8/2006		0.003
Pond Fork	WVKC-10-U	15.8	3/15/2006		0.0016
Pond Fork	WVKC-10-U	15.8	4/13/2006		0.002
Pond Fork	WVKC-10-U	15.8	5/3/2006		0.003
Pond Fork	WVKC-10-U	15.8	5/3/2006		0.003
Pond Fork	WVKC-10-U	15.8	6/13/2006		0.002
Pond Fork	WVKC-10-U	15.8	7/12/2006		0.003
Pond Fork	WVKC-10-U	15.8	8/23/2006		0.003
Pond Fork	WVKC-10-U	15.8	9/20/2006		0.002
Pond Fork	WVKC-10-U	15.8	10/17/2006		0.002
Pond Fork	WVKC-10-U	15.8	4/25/2007		0.005
White Oak Creek	WVKC-35	2.7	11/15/2005		0.016
White Oak Creek	WVKC-35	2.7	12/13/2005		0.016
White Oak Creek	WVKC-35	2.7	1/4/2006		0.008
White Oak Creek	WVKC-35	2.7	2/8/2006		0.019
White Oak Creek	WVKC-35	2.7	2/8/2006		0.0177
White Oak Creek	WVKC-35	2.7	3/15/2006		0.013
White Oak Creek	WVKC-35	2.7	4/12/2006		0.008
White Oak Creek	WVKC-35	2.7	5/2/2006		0.014
White Oak Creek	WVKC-35	2.7	6/12/2006		0.019
White Oak Creek	WVKC-35	2.7	7/12/2006		0.024
White Oak Creek	WVKC-35	2.7	8/23/2006		0.017
White Oak Creek	WVKC-35	2.7	9/18/2006		0.014
White Oak Creek	WVKC-35	2.7	8/28/2006		0.0136
White Oak Creek	WVKC-35	2.7	10/16/2006		0.01
White Oak Creek	WVKC-35	2.7	4/26/2007		0.027
Seng Creek	WVKC-42	2.5	11/15/2005		0.04

Waterbody Name	Code	Mile	Date	Q	Total Se (mg/L)
Seng Creek	WVKC-42	2.5	12/13/2005		0.042
Seng Creek	WVKC-42	2.5	1/4/2006		0.023
Seng Creek	WVKC-42	2.5	2/8/2006		0.031
Seng Creek	WVKC-42	2.5	3/13/2006		0.026
Seng Creek	WVKC-42	2.5	4/13/2006		0.015
Seng Creek	WVKC-42	2.5	4/13/2006		0.015
Seng Creek	WVKC-42	2.5	5/2/2006		0.023
Seng Creek	WVKC-42	2.5	6/13/2006		0.025
Seng Creek	WVKC-42	2.5	7/12/2006		0.041
Seng Creek	WVKC-42	2.5	8/24/2006		0.03
Seng Creek	WVKC-42	2.5	9/19/2006		0.028
Seng Creek	WVKC-42	2.5	8/28/2006		0.0219
Seng Creek	WVKC-42	2.5	10/17/2006		0.023
Seng Creek	WVKC-42	2.5	4/19/2007		0.024
Sycamore Creek	WVKC-47-E	1.6	11/14/2005	<	0.001
Sycamore Creek	WVKC-47-E	1.6	12/13/2005	<	0.001
Sycamore Creek	WVKC-47-E	1.6	1/4/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	2/8/2006		0.001
Sycamore Creek	WVKC-47-E	1.6	3/13/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	4/12/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	5/2/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	6/12/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	7/12/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	8/23/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	9/19/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	8/28/2006		0.000123
Sycamore Creek	WVKC-47-E	1.6	10/17/2006	<	0.001
Sycamore Creek	WVKC-47-E	1.6	4/19/2007	<	0.001
Upper Mud River Reservoir	WVOGM-(L1)		11/3/2005		0.006
Upper Mud River Reservoir	WVOGM-(L1)		1/12/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		1/12/2006		0.005
Upper Mud River Reservoir	WVOGM-(L1)		1/12/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		1/12/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		1/12/2006		0.003
Upper Mud River Reservoir	WVOGM-(L1)		1/12/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		2/27/2006		0.003
Upper Mud River Reservoir	WVOGM-(L1)		2/27/2006		0.005
Upper Mud River Reservoir	WVOGM-(L1)		2/27/2006		0.003
Upper Mud River Reservoir	WVOGM-(L1)		4/4/2006		0.003
Upper Mud River Reservoir	WVOGM-(L1)		4/4/2006		0.0036
Upper Mud River Reservoir	WVOGM-(L1)		4/4/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		4/17/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		4/17/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		4/17/2006		0.001
Upper Mud River Reservoir	WVOGM-(L1)		5/24/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		5/24/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		5/24/2006		0.001

Waterbody Name	Code	Mile	Date	Q	Total Se (mg/L)
Upper Mud River Reservoir	WVOGM-(L1)		6/22/2006		0.003
Upper Mud River Reservoir	WVOGM-(L1)		6/22/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		6/22/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		8/17/2006		0.006
Upper Mud River Reservoir	WVOGM-(L1)		8/17/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		9/27/2006		0.005
Upper Mud River Reservoir	WVOGM-(L1)		9/27/2006		0.005
Upper Mud River Reservoir	WVOGM-(L1)		9/27/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		11/28/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		11/28/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		11/28/2006		0.002
Upper Mud River Reservoir	WVOGM-(L1)		12/21/2006		0.004
Upper Mud River Reservoir	WVOGM-(L1)		5/11/2007		0.006
Upper Mud River Reservoir	WVOGM-(L1)		5/11/2007		0.007
Upper Mud River Reservoir	WVOGM-(L1)		5/16/2007		0.003
Hughes Fork	WVKG-5-B-4	0.0	11/9/2005		0.004
Hughes Fork	WVKG-5-B-4	0.0	12/19/2005		0.0046
Hughes Fork	WVKG-5-B-4	0.0	1/19/2006		0.004
Hughes Fork	WVKG-5-B-4	0.0	2/9/2006		0.0096
Hughes Fork	WVKG-5-B-4	0.0	3/13/2006		0.009
Hughes Fork	WVKG-5-B-4	0.0	4/18/2006		0.0032
Hughes Fork	WVKG-5-B-4	0.0	5/2/2006		0.008
Hughes Fork	WVKG-5-B-4	0.0	6/12/2006		0.002
Hughes Fork	WVKG-5-B-4	0.0	8/21/2006		0.002
Hughes Fork	WVKG-5-B-4	0.0	8/29/2006		0.00245
Hughes Fork	WVKG-5-B-4	0.0	10/16/2006		0.005
Hughes Fork	WVKG-5-B-4	0.0	5/1/2007		0.01
Ash Fork	WVKG-5-H	0.0	11/9/2005	<	0.001
Ash Fork	WVKG-5-H	0.0	12/19/2005	<	0.001
Ash Fork	WVKG-5-H	0.0	1/4/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	2/9/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	3/13/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	3/13/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	4/3/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	5/1/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	6/12/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	7/11/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	8/21/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	10/5/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	10/5/2006	<	0.001
Ash Fork	WVKG-5-H	0.0	10/16/2006	<	0.001
Daugherty Run	WVMC-19	0.0	12/19/2005	<	0.001
Daugherty Run	WVMC-19	0.0	11/2/2005	<	0.001
Daugherty Run	WVMC-19	0.0	1/17/2006	<	0.001
Daugherty Run	WVMC-19	0.0	2/15/2006	<	0.001
Daugherty Run	WVMC-19	0.0	3/21/2006	<	0.001
Daugherty Run	WVMC-19	0.0	9/7/2006	<	0.001

Waterbody Name	Code	Mile	Date	Q	Total Se (mg/L)
East Lynn Lake	WVO-2-Q-(L1)		11/3/2005		0.001
East Lynn Lake	WVO-2-Q-(L1)		12/22/2005		0.001
East Lynn Lake	WVO-2-Q-(L1)		1/11/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		1/11/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		1/11/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		1/11/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		1/11/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		1/11/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		2/27/2006		0.001
East Lynn Lake	WVO-2-Q-(L1)		2/27/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		2/27/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		4/6/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		4/6/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		4/6/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		5/25/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		5/25/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		5/25/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		6/20/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		6/20/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		6/20/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		8/17/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		8/17/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		8/17/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		8/17/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		9/26/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		9/26/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		9/26/2006		0.001
East Lynn Lake	WVO-2-Q-(L1)		11/28/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		11/28/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		11/28/2006	<	0.001
East Lynn Lake	WVO-2-Q-(L1)		5/2/2007	<	0.001
Kiah Creek	WVO-2-Q-18	1.2	11/10/2005		0.002
Kiah Creek	WVO-2-Q-18	1.2	12/14/2005		0.002
Kiah Creek	WVO-2-Q-18	1.2	12/14/2005		0.002
Kiah Creek	WVO-2-Q-18	1.2	1/5/2006		0.001
Kiah Creek	WVO-2-Q-18	1.2	2/9/2006		0.003
Kiah Creek	WVO-2-Q-18	1.2	3/15/2006	<	0.001
Kiah Creek	WVO-2-Q-18	1.2	3/31/2006	<	0.001
Kiah Creek	WVO-2-Q-18	1.2	5/3/2006		0.001
Kiah Creek	WVO-2-Q-18	1.2	6/13/2006		0.001
Kiah Creek	WVO-2-Q-18	1.2	7/12/2006		0.002
Kiah Creek	WVO-2-Q-18	1.2	8/22/2006		0.001
Kiah Creek	WVO-2-Q-18	1.2	9/21/2006		0.001
Kiah Creek	WVO-2-Q-18	1.2	11/3/2006		0.002
Kiah Creek	WVO-2-Q-18	1.2	11/3/2006		0.002
Kiah Creek	WVO-2-Q-18	1.2	5/3/2007		0.002
Conner Run	WVO-77-A	0.2	11/8/2005		0.009

Waterbody Name	Code	Mile	Date	Q	Total Se (mg/L)
Conner Run	WVO-77-A	0.2	12/6/2005		0.004
Conner Run	WVO-77-A	0.2	1/24/2006		0.023
Conner Run	WVO-77-A	0.2	2/7/2006		0.027
Conner Run	WVO-77-A	0.2	3/7/2006		0.0615
Conner Run	WVO-77-A	0.2	4/10/2006		0.043
Conner Run	WVO-77-A	0.2	5/23/2006		0.061
Conner Run	WVO-77-A	0.2	6/14/2006		0.052
Conner Run	WVO-77-A	0.2	8/22/2006		0.09
Conner Run	WVO-77-A	0.2	8/22/2006		0.088
Conner Run	WVO-77-A	0.2	8/30/2006		0.079
Conner Run	WVO-77-A	0.2	8/30/2006		0.0603
Conner Run	WVO-77-A	0.2	10/25/2006		0.036
Conner Run	WVO-77-A	0.2	4/23/2007		0.035
Mud River	WVOGM	77.5	11/30/2005		0.0084
Mud River	WVOGM	77.5	12/13/2005		0.007
Mud River	WVOGM	77.5	1/5/2006		0.005
Mud River	WVOGM	77.5	1/5/2006		0.005
Mud River	WVOGM	77.5	2/8/2006		0.0087
Mud River	WVOGM	77.5	3/15/2006		0.004
Mud River	WVOGM	77.5	4/5/2006		0.005
Mud River	WVOGM	77.5	5/3/2006		0.007
Mud River	WVOGM	77.5	6/13/2006		0.005
Mud River	WVOGM	77.5	8/21/2006		0.008
Mud River	WVOGM	77.5	9/20/2006		0.014
Mud River	WVOGM	77.5	8/29/2006		0.00485
Mud River	WVOGM	77.5	11/3/2006		0.008
Mud River	WVOGM	77.5	6/6/2007		0.022
Mount Storm Lake	WVPNB-17-(L1)		11/1/2005		0.001
Mount Storm Lake	WVPNB-17-(L1)		12/20/2005		0.001
Mount Storm Lake	WVPNB-17-(L1)		1/24/2006		0.002
Mount Storm Lake	WVPNB-17-(L1)		1/24/2006		0.002
Mount Storm Lake	WVPNB-17-(L1)		1/24/2006		0.0015
Mount Storm Lake	WVPNB-17-(L1)		1/24/2006		0.0014
Mount Storm Lake	WVPNB-17-(L1)		2/15/2006		0.002
Mount Storm Lake	WVPNB-17-(L1)		2/15/2006		0.002
Mount Storm Lake	WVPNB-17-(L1)		2/15/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		2/15/2006		0.002
Mount Storm Lake	WVPNB-17-(L1)		4/11/2006	<	0.001
Mount Storm Lake	WVPNB-17-(L1)		4/11/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		4/11/2006		0.002
Mount Storm Lake	WVPNB-17-(L1)		5/23/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		5/23/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		5/23/2006	<	0.001
Mount Storm Lake	WVPNB-17-(L1)		6/19/2006	<	0.001
Mount Storm Lake	WVPNB-17-(L1)		6/19/2006	<	0.001
Mount Storm Lake	WVPNB-17-(L1)		6/19/2006	<	0.001

Waterbody Name	Code	Mile	Date	Q	Total Se (mg/L)
Mount Storm Lake	WVPNB-17-(L1)		8/15/2006		0.002
Mount Storm Lake	WVPNB-17-(L1)		8/15/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		9/6/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		9/6/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		9/6/2006		0.001
Mount Storm Lake	WVPNB-17-(L1)		11/29/2006	<	0.001
Mount Storm Lake	WVPNB-17-(L1)		11/29/2006	<	0.001
Mount Storm Lake	WVPNB-17-(L1)		11/29/2006	<	0.001
Mount Storm Lake	WVPNB-17-(L1)		4/24/2007	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		4/26/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		4/26/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		4/26/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		5/22/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		5/22/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		5/22/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		6/26/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		6/26/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		6/26/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		8/16/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		8/16/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		9/28/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		9/28/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		12/5/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		12/5/2006	<	0.001
Elk Fork Lake	WVO-32-M-(L1)		4/25/2007	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		4/25/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		4/25/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		4/25/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		5/24/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		5/24/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		5/24/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		6/22/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		6/22/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		6/22/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		8/15/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		8/15/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		9/27/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		9/27/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		9/27/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		12/11/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		12/11/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		12/11/2006	<	0.001
Plum Orchard Lake	WVK-65-Z-(L1)		5/9/2007	<	0.001
Little Scary Creek	WVK-31	0.1	4/18/2006		0.027
Little Scary Creek	WVK-31	0.1	5/4/2006		0.027
Little Scary Creek	WVK-31	0.1	6/20/2006		0.042
Little Scary Creek	WVK-31	0.1	8/22/2006		0.042

Waterbody Name	Code	Mile	Date	Q	Total Se (mg/L)
Little Scary Creek	WVK-31	0.1	9/20/2006		0.032
Little Scary Creek	WVK-31	0.1	8/29/2006		0.0326
Little Scary Creek	WVK-31	0.1	12/15/2006		0.026
Little Scary Creek	WVK-31	0.1	4/20/2007		0.023
Pinnacle Creek	WVOG-124	3.6	7/9/2007		0.003
Pinnacle Creek	WVOG-124	11.1	7/10/2007		0.002

Appendix B. Whole tissue selenium concentrations from fishes collected at study locations, including excluded data (see Excluded Data).

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Green Sunfish		11.2
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Green Sunfish		10.7
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Green Sunfish		7.7
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Green Sunfish		7.2
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Green Sunfish		12.8
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Creek Chub		13.8
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Creek Chub		17.2
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Creek Chub		11.4
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Creek Chub		12.6
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Creek Chub		11.4
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Stoneroller		3.3
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Stoneroller		22.8
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Stoneroller		6.6
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Stoneroller		8.0
Beech Creek	WVKC-10-T-15	11/20/2005	BioChem Testing	Stoneroller		3.8
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Green Sunfish		4.3
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Green Sunfish		8.0
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Green Sunfish		9.8
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Green Sunfish		51.7
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Green Sunfish		4.3
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Stoneroller		5.1
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Stoneroller		10.9
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Stoneroller		3.9
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Stoneroller		5.9
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Stoneroller		4.5
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Creek Chub		4.2
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Creek Chub		4.7
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Creek Chub		5.1
Beech Creek	WVKC-10-T-15	4/13/2006	WVU-NRCCE	Creek Chub		4.9
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Green Sunfish		4.7
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Green Sunfish		4.4
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Green Sunfish		4.7
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Green Sunfish		5.8
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Green Sunfish		3.5
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Stoneroller		2.8
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Stoneroller		2.5
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Stoneroller		2.2
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Stoneroller		2.2
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Stoneroller		2.1
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Creek Chub		5.0
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Creek Chub		5.6

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Creek Chub		7.4
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Creek Chub		3.3
Beech Creek	WVKC-10-T-15	9/20/2006	BioChem Testing	Creek Chub		6.0
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Stoneroller		4.6
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Green Sunfish		6.1
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Green Sunfish		6.1
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Stoneroller		3.4
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Green Sunfish		6.9
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Green Sunfish		5.6
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Green Sunfish		11.0
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Green Sunfish		12.2
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		12.6
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Stoneroller		6.1
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		8.1
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Stoneroller		4.4
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		7.3
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Green Sunfish		4.1
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		11.0
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		6.6
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		10.3
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		10.4
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		11.9
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		7.6
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Creek Chub		9.9
Beech Creek	WVKC-10-T-15	4/26/2007	BioChem Testing	Stoneroller		3.6
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Green Sunfish		3.5
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Green Sunfish		3.6
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Green Sunfish	<	1.0
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Green Sunfish		3.4
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Green Sunfish		7.7
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Stoneroller		3.9
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Stoneroller		3.8
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Stoneroller		3.6
Pond Fork	WVKC-10-U	11/29/2005	BioChem Testing	Stoneroller		3.6
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Green Sunfish		4.7
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Green Sunfish		5.6
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Green Sunfish		4.8
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Green Sunfish		10.0
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Green Sunfish		4.5
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Stoneroller		5.5
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Stoneroller		6.5
Pond Fork	WVKC-10-U	4/13/2006	WVU-NRCCE	Stoneroller		3.7
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Stoneroller		2.0
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Stoneroller		2.1

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Stoneroller		1.5
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Stoneroller		2.1
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Stoneroller		2.3
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Green Sunfish		2.2
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Green Sunfish		1.9
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Green Sunfish		3.7
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Green Sunfish		3.2
Pond Fork	WVKC-10-U	9/19/2006	BioChem Testing	Green Sunfish		4.4
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		9.8
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		2.8
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		4.8
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		4.7
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		3.2
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		4.1
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		4.7
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		3.4
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		5.1
Pond Fork	WVKC-10-U	4/25/2007	BioChem Testing	Green Sunfish		3.4
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Bluegill	<	1.0
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Green Sunfish	<	1.0
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Green Sunfish		4.3
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Green Sunfish		3.9
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Green Sunfish		8.2
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Green Sunfish		8.6
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Creek Chub	<	1.0
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Creek Chub	<	1.0
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Creek Chub	<	1.0
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Creek Chub		4.2
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Creek Chub		9.4
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Stoneroller		12.8

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Stoneroller		7.2
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Stoneroller		8.6
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Stoneroller		11.8
White Oak Creek	WVKC-35	11/15/2005	BioChem Testing	Stoneroller		7.6
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Green Sunfish		22.8
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Green Sunfish		17.2
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Green Sunfish		10.5
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Green Sunfish		27.0
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Green Sunfish		21.8
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Stoneroller		4.8
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Stoneroller		6.1
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Stoneroller		5.0
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Stoneroller		6.6
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Stoneroller		19.9
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Creek Chub		34.4
White Oak Creek	WVKC-35	4/12/2006	WVU-NRCCE	Creek Chub		24.0
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Green Sunfish		3.2
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Green Sunfish		10.0
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Green Sunfish		23.7
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Green Sunfish		11.8
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Green Sunfish		7.2

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Creek Chub		3.6
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Creek Chub		2.8
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Stoneroller		5.0
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Stoneroller		4.2
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Stoneroller		2.5
White Oak Creek	WVKC-35	9/18/2006	BioChem Testing	Stoneroller		3.9
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Creek Chub		4.2
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		6.2
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		6.5
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		11.4
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		4.7
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		5.7
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Creek Chub		12.8
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		7.3
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		10.9
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Creek Chub		10.9
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Creek Chub		10.8
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Creek Chub		9.8
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		3.7
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		4.3
White Oak Creek	WVKC-35	4/26/2007	BioChem Testing	Green Sunfish		6.1
Seng Creek	WVKC-42	11/15/2005	BioChem Testing	Creek Chub		7.2

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Seng Creek	WVKC-42	11/15/2005	BioChem Testing	Creek Chub		8.4
Seng Creek	WVKC-42	11/15/2005	BioChem Testing	Creek Chub		8.1
Seng Creek	WVKC-42	11/15/2005	BioChem Testing	Creek Chub		11.9
Seng Creek	WVKC-42	11/15/2005	BioChem Testing	Creek Chub		7.5
Seng Creek	WVKC-42	4/13/2006	WVU-NRCCE	Creek Chub		28.2
Seng Creek	WVKC-42	4/13/2006	WVU-NRCCE	Creek Chub		14.8
Seng Creek	WVKC-42	4/13/2006	WVU-NRCCE	Creek Chub		4.7
Seng Creek	WVKC-42	4/13/2006	WVU-NRCCE	Creek Chub		36.3
Seng Creek	WVKC-42	4/13/2006	WVU-NRCCE	Creek Chub		17.6
Seng Creek	WVKC-42	9/19/2006	BioChem Testing	Creek Chub		9.1
Seng Creek	WVKC-42	9/19/2006	BioChem Testing	Creek Chub		14.2
Seng Creek	WVKC-42	9/19/2006	BioChem Testing	Creek Chub		7.7
Seng Creek	WVKC-42	9/19/2006	BioChem Testing	Creek Chub		4.9
Seng Creek	WVKC-42	9/19/2006	BioChem Testing	Creek Chub		14.7
Seng Creek	WVKC-42	4/19/2007	BioChem Testing	Creek Chub		5.7
Seng Creek	WVKC-42	4/19/2007	BioChem Testing	Creek Chub		4.8
Seng Creek	WVKC-42	4/19/2007	BioChem Testing	Creek Chub		7.2
Seng Creek	WVKC-42	4/19/2007	BioChem Testing	Creek Chub		5.7
Seng Creek	WVKC-42	4/19/2007	BioChem Testing	Creek Chub		5.2
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Creek Chub	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Creek Chub	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Creek Chub	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Creek Chub	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Creek Chub	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Stoneroller	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Stoneroller	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Stoneroller	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Stoneroller	<	1.0
Sycamore Creek	WVKC-47-E	11/14/2005	BioChem Testing	Stoneroller	<	1.0
Sycamore Creek	WVKC-47-E	4/12/2006	WVU-NRCCE	Creek Chub		9.9
Sycamore Creek	WVKC-47-E	4/12/2006	WVU-NRCCE	Creek Chub		10.7
Sycamore Creek	WVKC-47-E	4/12/2006	WVU-NRCCE	Creek Chub		11.1

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Sycamore Creek	WVKC-47-E	4/12/2006	WVU-NRCCE	Creek Chub		5.9
Sycamore Creek	WVKC-47-E	4/12/2006	WVU-NRCCE	Creek Chub		4.8
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Creek Chub		2.5
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Creek Chub		1.8
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Creek Chub		1.7
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Creek Chub		1.7
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Creek Chub		2.7
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Stoneroller		0.7
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Stoneroller		1.9
Sycamore Creek	WVKC-47-E	9/19/2006	BioChem Testing	Stoneroller		2.1
Sycamore Creek	WVKC-47-E	4/19/2007	BioChem Testing	Creek Chub		10.7
Sycamore Creek	WVKC-47-E	4/19/2007	BioChem Testing	Creek Chub		11.8
Sycamore Creek	WVKC-47-E	4/19/2007	BioChem Testing	Creek Chub		11.5
Sycamore Creek	WVKC-47-E	4/19/2007	BioChem Testing	Creek Chub		10.2
Sycamore Creek	WVKC-47-E	4/19/2007	BioChem Testing	Creek Chub		22.7
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Bluegill		32.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Bluegill		27.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Bluegill		27.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Bluegill		60.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Bluegill		41.0

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Green Sunfish		22.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Green Sunfish		30.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Green Sunfish		27.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Green Sunfish		26.0
Upper Mud River Reservoir	WVOGM-(L1)	11/3/2005	BioChem Testing	Green Sunfish		47.0
Upper Mud River Reservoir	WVOGM-(L1)	4/4/2006	WVU-NRCCE	Green Sunfish		23.2
Upper Mud River Reservoir	WVOGM-(L1)	4/4/2006	WVU-NRCCE	Green Sunfish		27.5
Upper Mud River Reservoir	WVOGM-(L1)	4/4/2006	WVU-NRCCE	Green Sunfish		16.9
Upper Mud River Reservoir	WVOGM-(L1)	4/4/2006	WVU-NRCCE	Green Sunfish		26.7
Upper Mud River Reservoir	WVOGM-(L1)	4/4/2006	WVU-NRCCE	Green Sunfish		31.6
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Green Sunfish		8.1
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Green Sunfish		7.6
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Green Sunfish		24.4
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Green Sunfish		23.3
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Green Sunfish		6.2
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Bluegill		38.0

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Bluegill		24.5
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Bluegill		23.3
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Bluegill		16.4
Upper Mud River Reservoir	WVOGM-(L1)	9/27/2006	BioChem Testing	Bluegill		9.8
Upper Mud River Reservoir	WVOGM-(L1)	12/21/2006	BioChem Testing	Bluegill		50.9
Upper Mud River Reservoir	WVOGM-(L1)	12/21/2006	BioChem Testing	Bluegill		60.1
Upper Mud River Reservoir	WVOGM-(L1)	12/21/2006	BioChem Testing	Bluegill		41.7
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Green Sunfish		9.5
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Bluegill		14.9
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Bluegill		22.7
Upper Mud River Reservoir	WVOGM-(L1)	5/17/2007	BioChem Testing	Largemouth Bass		23.7
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Crappie		20.5
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Green Sunfish		21.4
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Green Sunfish		31.7
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Green Sunfish		22.0
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Green Sunfish		39.6

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	REIC	Bluegill		13.3
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Green Sunfish		22.9
Upper Mud River Reservoir	WVOGM-(L1)	5/17/2007	BioChem Testing	Largemouth Bass		21.0
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	REIC	Bluegill		13.9
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Bluegill		37.5
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Bluegill		18.1
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Bluegill		34.9
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	REIC	Bluegill		3.9
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	BioChem Testing	Bluegill		32.2
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	REIC	Green Sunfish		16.0
Upper Mud River Reservoir	WVOGM-(L1)	5/11/2007	REIC	Bluegill		9.0
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Green Sunfish		19.9
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Green Sunfish		12.9
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	REIC	Green Sunfish		12.7
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Green Sunfish		14.6
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Bluegill		19.8

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Bluegill		18.1
Upper Mud River Reservoir	WVOGM-(L1)	5/17/2007	BioChem Testing	Largemouth Bass		29.3
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Bluegill		17.8
Upper Mud River Reservoir	WVOGM-(L1)	5/17/2007	BioChem Testing	Largemouth Bass		27.0
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Bluegill		19.3
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	REIC	Bluegill		11.0
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Bluegill		11.2
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Bluegill		8.9
Upper Mud River Reservoir	WVOGM-(L1)	5/17/2007	BioChem Testing	Bluegill		27.1
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Green Sunfish		3.2
Upper Mud River Reservoir	WVOGM-(L1)	5/16/2007	BioChem Testing	Green Sunfish		8.7
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Creek Chub		4.1
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Creek Chub		7.2
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Creek Chub		7.7
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Creek Chub		10.9
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Creek Chub		8.9
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Stoneroller	<	1.0
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Stoneroller		34.5
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Stoneroller		4.0
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Stoneroller		14.9
Hughes Fork	WVKG-5-B-4	11/9/2005	BioChem Testing	Stoneroller		8.1
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Bluegill		4.7
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Creek Chub		5.6
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Creek Chub		5.3
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Creek Chub		4.3
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Creek Chub		4.5

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Creek Chub		4.9
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Stoneroller		10.2
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Stoneroller		3.7
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Stoneroller		3.7
Hughes Fork	WVKG-5-B-4	4/18/2006	WVU-NRCCE	Stoneroller		4.2
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Stoneroller		5.6
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Stoneroller		6.3
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Stoneroller		7.1
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Stoneroller		7.3
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Stoneroller		5.8
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Creek Chub		4.3
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Creek Chub		5.7
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Creek Chub		6.0
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Creek Chub		4.4
Hughes Fork	WVKG-5-B-4	10/16/2006	BioChem Testing	Creek Chub		6.4
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		6.1
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		9.1
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		2.7
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		6.6
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		7.4
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		12.9
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		11.5
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		7.5
Hughes Fork	WVKG-5-B-4	5/1/2007	BioChem Testing	Creek Chub		6.9
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Stoneroller	<	1.0
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Stoneroller		3.2
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Stoneroller	<	1.0
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Stoneroller		3.3
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Stoneroller		3.4
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Creek Chub	<	1.0
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Creek Chub	<	1.0
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Creek Chub	<	1.0
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Creek Chub	<	1.0
Ash Fork	WVKG-5-H	11/9/2005	BioChem Testing	Creek Chub	<	1.0
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Creek Chub		13.9
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Creek Chub		10.2
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Creek Chub		7.3
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Creek Chub		4.4
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Creek Chub		4.2
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Stoneroller		10.2
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Stoneroller		15.9
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Stoneroller		5.4
Ash Fork	WVKG-5-H	4/3/2006	WVU-NRCCE	Stoneroller		5.1
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Creek Chub		2.1

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Creek Chub		4.6
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Creek Chub		3.0
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Creek Chub		2.8
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Creek Chub		4.5
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Stoneroller		3.0
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Stoneroller		4.9
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Stoneroller		2.5
Ash Fork	WVKG-5-H	10/5/2006	BioChem Testing	Stoneroller		6.0
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		1.7
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		2.3
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		2.5
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		2.2
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		2.5
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		1.7
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		2.6
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		2.3
Ash Fork	WVKG-5-H	5/1/2007	BioChem Testing	Creek Chub		1.8
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Rock Bass	<	1.0
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Rock Bass	<	1.0
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Green Sunfish	<	1.0
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Green Sunfish	<	1.0
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Green Sunfish		4.0
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Creek Chub	<	1.0
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Creek Chub	<	1.0
Daugherty Run	WVMC-19	11/2/2005	BioChem Testing	Creek Chub	<	1.0
Daugherty Run	WVMC-19	3/21/2006	WVU-NRCCE	Brook Trout	<	5.3
Daugherty Run	WVMC-19	3/21/2006	WVU-NRCCE	Brook Trout		6.1
Daugherty Run	WVMC-19	3/21/2006	WVU-NRCCE	Brook Trout		16.3
Daugherty Run	WVMC-19	3/21/2006	WVU-NRCCE	Brook Trout		12.0
Daugherty Run	WVMC-19	3/21/2006	WVU-NRCCE	Brook Trout	<	5.5
Daugherty Run	WVMC-19	9/7/2006	BioChem Testing	Brook Trout		0.8
Daugherty Run	WVMC-19	9/7/2006	BioChem Testing	Brook Trout		1.6
Daugherty Run	WVMC-19	9/7/2006	BioChem Testing	Rock Bass		1.1
Daugherty Run	WVMC-19	9/7/2006	BioChem Testing	Green Sunfish		1.8
Daugherty Run	WVMC-19	9/7/2006	BioChem Testing	Stoneroller		3.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Hybrid Sunfish	<	1.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Hybrid Sunfish	<	1.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Hybrid Sunfish	<	1.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Hybrid Sunfish	<	1.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Hybrid Sunfish		4.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Bluegill		9.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Bluegill		4.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Bluegill		4.0
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Bluegill		4.0

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
East Lynn Lake	WVO-2-Q-(L1)	11/3/2005	BioChem Testing	Bluegill	<	1.0
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Green Sunfish		3.3
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Green Sunfish		3.5
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Green Sunfish		4.7
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Green Sunfish		4.3
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Bluegill		2.8
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Bluegill		2.0
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Bluegill		2.8
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Bluegill		2.6
East Lynn Lake	WVO-2-Q-(L1)-LC	9/26/2006	BioChem Testing	Bluegill		2.2
East Lynn Lake	WVO-2-Q-(L1)-EF	9/26/2006	BioChem Testing	Bluegill		6.1
East Lynn Lake	WVO-2-Q-(L1)-EF	9/26/2006	BioChem Testing	Bluegill		2.6
East Lynn Lake	WVO-2-Q-(L1)-EF	9/26/2006	BioChem Testing	Bluegill		3.9
East Lynn Lake	WVO-2-Q-(L1)-EF	9/26/2006	BioChem Testing	Bluegill		5.2
East Lynn Lake	WVO-2-Q-(L1)-EF	9/26/2006	BioChem Testing	Bluegill		3.6
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		1.9
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		3.0
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		3.6
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		3.6
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		3.1
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		0.8
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.0
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Green Sunfish		2.5
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.0
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Green Sunfish		2.6
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		4.0
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		3.7
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		1.3
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.3
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.0
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.1
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.5
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.2
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		3.4
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Green Sunfish		2.7
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Green Sunfish		3.7
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		3.9
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Bluegill		2.1
East Lynn Lake	WVO-2-Q-(L1)	5/2/2007	BioChem Testing	Green Sunfish		2.1
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Bluegill	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Bluegill	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Bluegill		4.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Bluegill		4.2
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Bluegill		4.1

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Creek Chub	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Creek Chub	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Creek Chub	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Creek Chub	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Creek Chub	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Stoneroller	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Stoneroller		4.1
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Stoneroller		3.8
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Stoneroller	<	1.0
Kiah Creek	WVO-2-Q-18	11/10/2005	BioChem Testing	Stoneroller	<	1.0
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Green Sunfish		4.3
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Green Sunfish		4.7
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Green Sunfish		6.2
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Creek Chub		5.0
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Creek Chub		4.7
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Creek Chub		4.9
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Creek Chub		4.7
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Stoneroller		3.9
Kiah Creek	WVO-2-Q-18	3/31/2006	WVU-NRCCE	Stoneroller		3.7
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Green Sunfish		3.1
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Green Sunfish		2.7
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Green Sunfish		3.0
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Green Sunfish		2.4
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Green Sunfish		2.7
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Bluegill		2.5
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Bluegill		2.5
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Bluegill		4.3
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Bluegill		1.7
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Bluegill		1.2
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Stoneroller		3.3
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Stoneroller		2.5
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Stoneroller		2.4
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Stoneroller		3.2
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Stoneroller		2.7
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Creek Chub		1.9
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Creek Chub		3.1
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Creek Chub		2.6
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Creek Chub		2.2
Kiah Creek	WVO-2-Q-18	9/21/2006	BioChem Testing	Creek Chub		2.3
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Bluegill		3.1
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		2.6
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		2.0
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		2.5
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		3.2

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Bluegill		3.2
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Bluegill		2.7
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		4.8
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		3.7
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		5.4
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		4.0
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		4.9
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Bluegill		2.6
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Creek Chub		5.4
Kiah Creek	WVO-2-Q-18	5/3/2007	BioChem Testing	Bluegill		2.7
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Creek Chub		30.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Creek Chub		23.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Creek Chub		22.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Creek Chub		25.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Creek Chub		26.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	White Sucker		20.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	White Sucker		23.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Green Sunfish		21.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Green Sunfish		20.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Green Sunfish		27.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Green Sunfish		29.0
Conner Run	WVO-77-A	11/8/2005	BioChem Testing	Green Sunfish		27.0
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Green Sunfish		10.9
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Green Sunfish		15.4
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Green Sunfish		21.9
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Green Sunfish		15.6
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Green Sunfish		18.8
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Creek Chub		12.0
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Creek Chub		10.0
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Creek Chub		4.5
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Creek Chub		12.4
Conner Run	WVO-77-A	4/10/2006	WVU-NRCCE	Creek Chub		14.4
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Creek Chub		35.0
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Creek Chub		31.8
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Creek Chub		26.3
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Creek Chub		28.0
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Creek Chub		32.5
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Green Sunfish		47.7
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Green Sunfish		32.9
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Green Sunfish		29.1
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Green Sunfish		22.2
Conner Run	WVO-77-A	8/30/2006	BioChem Testing	Green Sunfish		29.3
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		16.5
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		23.9

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Creek Chub		25.9
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Bluegill		25.3
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		29.7
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		24.7
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		18.5
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		21.3
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		21.4
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		21.1
Conner Run	WVO-77-A	4/23/2007	BioChem Testing	Green Sunfish		21.7
Mud River	WVOGM	11/30/2005	BioChem Testing	Green Sunfish		11.7
Mud River	WVOGM	11/30/2005	BioChem Testing	Green Sunfish		19.4
Mud River	WVOGM	11/30/2005	BioChem Testing	Green Sunfish		11.3
Mud River	WVOGM	11/30/2005	BioChem Testing	Green Sunfish		7.4
Mud River	WVOGM	11/30/2005	BioChem Testing	Green Sunfish		12.0
Mud River	WVOGM	11/30/2005	BioChem Testing	Creek Chub		8.7
Mud River	WVOGM	11/30/2005	BioChem Testing	Creek Chub	<	1.0
Mud River	WVOGM	11/30/2005	BioChem Testing	Creek Chub		4.3
Mud River	WVOGM	11/30/2005	BioChem Testing	Creek Chub	<	1.0
Mud River	WVOGM	11/30/2005	BioChem Testing	Creek Chub	<	1.0
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Creek Chub		25.4
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Creek Chub		23.6
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Creek Chub		22.5
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Creek Chub		27.2
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Creek Chub		26.5
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Stoneroller		7.2
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Stoneroller		26.7
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Stoneroller		9.9
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Stoneroller		12.5
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Green Sunfish		13.0
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Green Sunfish		17.4
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Green Sunfish		19.2
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Green Sunfish		16.0
Mud River	WVOGM	4/5/2006	WVU-NRCCE	Green Sunfish		16.3
Mud River	WVOGM	9/20/2006	BioChem Testing	Green Sunfish		12.1
Mud River	WVOGM	9/20/2006	BioChem Testing	Green Sunfish		5.4
Mud River	WVOGM	9/20/2006	BioChem Testing	Green Sunfish		5.2
Mud River	WVOGM	9/20/2006	BioChem Testing	Green Sunfish		6.9
Mud River	WVOGM	9/20/2006	BioChem Testing	Green Sunfish		5.1
Mud River	WVOGM	9/20/2006	BioChem Testing	Stoneroller		4.6
Mud River	WVOGM	9/20/2006	BioChem Testing	Stoneroller		5.0
Mud River	WVOGM	9/20/2006	BioChem Testing	Stoneroller		3.8
Mud River	WVOGM	9/20/2006	BioChem Testing	Stoneroller		4.8
Mud River	WVOGM	9/20/2006	BioChem Testing	Stoneroller		3.3
Mud River	WVOGM	9/20/2006	BioChem Testing	Bluegill		7.8

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Mud River	WVOGM	9/20/2006	BioChem Testing	Bluegill		9.8
Mud River	WVOGM	9/20/2006	BioChem Testing	Bluegill		4.9
Mud River	WVOGM	9/20/2006	BioChem Testing	Creek Chub		10.1
Mud River	WVOGM	9/20/2006	BioChem Testing	Creek Chub		7.3
Mud River	WVOGM	9/20/2006	BioChem Testing	Creek Chub		5.7
Mud River	WVOGM	9/20/2006	BioChem Testing	Creek Chub		2.7
Mud River	WVOGM	9/20/2006	BioChem Testing	Creek Chub		2.2
Mud River	WVOGM	6/6/2007	REIC	Creek Chub		8.2
Mud River	WVOGM	6/6/2007	REIC	Green Sunfish		1.3
Mud River	WVOGM	6/6/2007	REIC	Green Sunfish		1.6
Mud River	WVOGM	6/6/2007	REIC	Green Sunfish		9.7
Mud River	WVOGM	6/6/2007	REIC	Green Sunfish		2.8
Mud River	WVOGM	6/6/2007	REIC	Green Sunfish		8.1
Mud River	WVOGM	6/6/2007	REIC	Green Sunfish		5.9
Mud River	WVOGM	6/6/2007	REIC	Green Sunfish		5.3
Mud River	WVOGM	6/6/2007	REIC	Bluegill		17.3
Mud River	WVOGM	6/6/2007	REIC	Creek Chub		10.0
Mud River	WVOGM	6/6/2007	REIC	Creek Chub		3.7
Mud River	WVOGM	6/6/2007	REIC	Creek Chub		8.5
Mud River	WVOGM	6/6/2007	REIC	Creek Chub		8.3
Mud River	WVOGM	6/6/2007	REIC	Bluegill		14.6
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Creek Chub		42.9
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Creek Chub		55.6
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Creek Chub		36.8
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Creek Chub		70.6
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Creek Chub		41.9
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Creek Chub		38.5
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Creek Chub		23.0
Little Scary Creek	WVK-31	4/18/2006	WVU-NRCCE	Green Sunfish		39.3
Little Scary Creek	WVK-31	9/20/2006	BioChem Testing	Creek Chub		58.3
Little Scary Creek	WVK-31	9/20/2006	BioChem Testing	Creek Chub		58.1
Little Scary Creek	WVK-31	9/20/2006	BioChem Testing	Creek Chub		55.4
Little Scary Creek	WVK-31	9/20/2006	BioChem Testing	Creek Chub		68.6
Little Scary Creek	WVK-31	9/20/2006	BioChem Testing	Creek Chub		51.3

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Little Scary Creek	WVK-31	9/20/2006	BioChem Testing	Creek Chub		56.3
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Green Sunfish		6.9
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Creek Chub		67.5
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Green Sunfish		3.6
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Green Sunfish		11.4
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Green Sunfish		5.7
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Green Sunfish		3.4
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Creek Chub		41.1
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Creek Chub		79.6
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Creek Chub		72.8
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Creek Chub		43.8
Little Scary Creek	WVK-31	4/20/2007	BioChem Testing	Creek Chub		3.5
Plum Orchard Lake	WVK-65-Z-(L1)	4/25/2006	WVU-NRCCE	Bluegill		16.3
Plum Orchard Lake	WVK-65-Z-(L1)	4/25/2006	WVU-NRCCE	Bluegill		8.6
Plum Orchard Lake	WVK-65-Z-(L1)	4/25/2006	WVU-NRCCE	Bluegill		4.9
Plum Orchard Lake	WVK-65-Z-(L1)	4/25/2006	WVU-NRCCE	Bluegill		19.0
Plum Orchard Lake	WVK-65-Z-(L1)	4/25/2006	WVU-NRCCE	Bluegill		4.2
Plum Orchard Lake	WVK-65-Z-(L1)	4/25/2006	WVU-NRCCE	Bluegill		7.5
Plum Orchard Lake	WVK-65-Z-(L1)	4/25/2006	WVU-NRCCE	Bluegill		15.1
Plum Orchard Lake	WVK-65-Z-(L1)	9/27/2006	BioChem Testing	Green Sunfish		1.3
Plum Orchard Lake	WVK-65-Z-(L1)	9/27/2006	BioChem Testing	Bluegill		2.0
Plum Orchard Lake	WVK-65-Z-(L1)	9/27/2006	BioChem Testing	Bluegill	<	1.3
Plum Orchard Lake	WVK-65-Z-(L1)	9/27/2006	BioChem Testing	Bluegill		1.4
Plum Orchard Lake	WVK-65-Z-(L1)	9/27/2006	BioChem Testing	Bluegill		1.3
Plum Orchard Lake	WVK-65-Z-(L1)	9/27/2006	BioChem Testing	Bluegill		1.2

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Plum Orchard Lake	WVK-65-Z-(L1)	4/17/2007	BioChem Testing	Bluegill		1.6
Plum Orchard Lake	WVK-65-Z-(L1)	4/17/2007	BioChem Testing	Bluegill		1.7
Plum Orchard Lake	WVK-65-Z-(L1)	4/17/2007	BioChem Testing	Bluegill		1.4
Plum Orchard Lake	WVK-65-Z-(L1)	4/17/2007	BioChem Testing	Bluegill		1.9
Plum Orchard Lake	WVK-65-Z-(L1)	4/17/2007	BioChem Testing	Green Sunfish		1.3
Plum Orchard Lake	WVK-65-Z-(L1)	4/17/2007	REIC	Bluegill		19.8
Plum Orchard Lake	WVK-65-Z-(L1)	5/9/2007	BioChem Testing	Bluegill		1.1
Plum Orchard Lake	WVK-65-Z-(L1)	5/9/2007	BioChem Testing	Green Sunfish		1.3
Plum Orchard Lake	WVK-65-Z-(L1)	5/9/2007	REIC	Bluegill		3.6
Plum Orchard Lake	WVK-65-Z-(L1)	5/9/2007	BioChem Testing	Bluegill		1.4
Plum Orchard Lake	WVK-65-Z-(L1)	5/9/2007	BioChem Testing	Bluegill		1.2
Plum Orchard Lake	WVK-65-Z-(L1)	5/9/2007	REIC	Bluegill		3.8
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		3.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		3.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		3.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		3.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		3.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		3.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		7.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		7.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		7.0
Mount Storm Lake	WVPNB-17-(L1)	11/1/2005	BioChem Testing	Bluegill		4.0
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Bluegill		4.3
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Bluegill		5.1
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Bluegill		5.1

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Bluegill		4.9
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Bluegill		5.1
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Green Sunfish		5.3
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Green Sunfish		21.8
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Green Sunfish		6.6
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Green Sunfish		4.7
Mount Storm Lake	WVPNB-17-(L1)	4/11/2006	WVU-NRCCE	Green Sunfish		11.8
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		2.2
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		4.2
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		1.6
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		2.7
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		4.3
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		2.5
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		2.4
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		2.0
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		2.1
Mount Storm Lake	WVPNB-17-(L1)	9/6/2006	BioChem Testing	Bluegill		2.5
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Green Sunfish		2.5
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Bluegill		3.9
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Bluegill		4.8
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Bluegill		3.2
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Bluegill		4.8
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Bluegill		5.3

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Bluegill		7.0
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Green Sunfish		2.8
Mount Storm Lake	WVPNB-17-(L1)	4/24/2007	BioChem Testing	Bluegill		5.3
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Bluegill		26.1
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Bluegill		16.3
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Bluegill		5.3
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Bluegill		14.0
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Bluegill		5.3
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Green Sunfish		11.0
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Green Sunfish		22.9
Elk Fork Lake	WVO-32-M-(L1)	4/26/2006	WVU-NRCCE	Green Sunfish		5.3
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Green Sunfish		1.3
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Green Sunfish		0.9
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Green Sunfish		1.3
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Green Sunfish		1.4
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Green Sunfish		1.4
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Bluegill		1.1
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Bluegill		0.7
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Bluegill		1.2
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Bluegill		0.8
Elk Fork Lake	WVO-32-M-(L1)	10/4/2006	BioChem Testing	Bluegill		1.1
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		0.8
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		1.1
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		0.7
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		1.1
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		0.8
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		0.8
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		1.1
Elk Fork Lake	WVO-32-M-(L1)	4/25/2007	BioChem Testing	Bluegill		1.1
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Smallmouth Bass		7.4
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Rock Bass		9.0
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Smallmouth Bass		5.0
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Smallmouth Bass		5.6
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Rock Bass		5.4
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Rock Bass		8.2
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Rock Bass		5.3
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Rock Bass		7.6
Pinnacle Creek	WVOG-124	7/9/2007	REIC	Rock Bass		5.7
Pinnacle Creek	WVOG-124	7/10/2007	REIC	Creek Chub		7.8
Pinnacle Creek	WVOG-124	7/11/2007	REIC	Creek Chub		4.7

Waterbody Name	Code	Date Collected	Testing Laboratory	Species	Q	Tissue Se (mg/kg) dry wt
Pinnacle Creek	WVOG-124	7/12/2007	REIC	Creek Chub		4.8
Pinnacle Creek	WVOG-124	7/13/2007	REIC	Creek Chub		5.0
Pinnacle Creek	WVOG-124	7/14/2007	REIC	Creek Chub		4.1
Pinnacle Creek	WVOG-124	7/15/2007	REIC	Creek Chub		4.8
Pinnacle Creek	WVOG-124	7/16/2007	REIC	Creek Chub		4.8
Pinnacle Creek	WVOG-124	7/17/2007	REIC	Creek Chub		5.3
Pinnacle Creek	WVOG-124	7/18/2007	REIC	Rock Bass		8.0
Pinnacle Creek	WVOG-124	7/19/2007	REIC	Creek Chub		4.7
Pinnacle Creek	WVOG-124	7/20/2007	REIC	Rock Bass		7.4