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Trace Element Concentrations in Fish: 2010

Tennessee Valley Authority, Ash Recovery Project
Kingston, Tennessee

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Acronyms

ANOVA	Analysis of Variance
ASU	Appalachian State University
BERA	Baseline Ecological Risk Assessment
CRA	Clinch River Reach A
CRB	Clinch River Reach B
CRM	Clinch River Mile
CRR	Clinch River Reference Reach
cy	cubic yard
ERA	Emory River Reach A
ERB	Emory River Reach B
ERC	Emory River Reach C
ERM	Emory River Mile
ERR	Emory River Reference Reach
KIF	Kingston Fossil Plant
LERM	Little Emory River Mile
ORNL	Oak Ridge National Laboratory
PCB	polychlorinated biphenyl
SOP	Standard Operating Procedure
TDEC	Tennessee Department of Environment and Conservation
TRM	Tennessee River Mile
TVA	Tennessee Valley Authority
TWRA	Tennessee Wildlife Resources Agency

1. Introduction

The Tennessee Valley Authority (TVA) Kingston Fossil Plant (KIF) is located at the confluence of the Emory and Clinch Rivers on Watts Bar Reservoir in Roane County, Tennessee (Figure 1). KIF is one of TVA's larger fossil plants. The Emory River flows into the Clinch River at Emory River Mile (ERM) 0.0 / Clinch River Mile (CRM) 4.5. The collective river flow then joins the Tennessee River approximately four miles downstream of KIF at Tennessee River Mile (TRM) 567.5 (Figure 2). Ash, a by-product of a coal-fired power plant, is stored in unlined containment areas, including a former Dredge Cell. On December 22, 2008 failure of the Dredge Cell dike released about 5.4 million cubic yards (cy) of coal ash covering approximately 300 acres. Fly ash entered the channel and overbank areas of the Emory River. While the released fly ash itself is primarily composed of fine silica particles very similar to sand, it also contains trace amounts of arsenic, chromium, copper, lead, mercury, nickel, selenium, thallium, vanadium, zinc, and other metals which occur naturally in the coal.

Evaluations of the spatial extent of ash deposition indicate that ash may have traveled upstream as far as ERM 6.0, and as far downstream as TRM 566 (Jacobs Engineering 2010). In the upstream direction, the depth of ash appears to diminish quickly beyond about ERM 3.5. In the downstream direction, ash deposition generally diminishes quickly below about ERM 1.0, with pockets of greater depth occurring in depositional areas in the lower Emory River and Clinch River. Downstream of CRM 2.0, ash deposits generally vary from trace amounts to a thickness of 2 inches (Figure 2). Ash deposition of 0.5 to 1 inch was observed in the Tennessee River at TRM 566 (south of the Clinch River). Only trace amounts of ash have been observed further downstream (Jacobs Engineering 2010).

Dredging efforts in the Emory River began on Mach 20, 2009 and continued until roughly May 29, 2010. Hydraulic dredging in the river began during an initial dredging pilot program on March 20, 2009. This pilot study continued until July 20, 2009 (during the time-critical removal action). Phase I production dredging began in August 2009 and focused on removing the greatest volume of ash in the quickest time frame to reduce the potential for upstream flooding by clearing the river channel and to minimize downriver migration risk. At the end of the pilot and Phase I dredging, approximately 1.96 million cy of ash had been removed from the river. Phase II dredging began in February 2010 in order to further minimize the potential future ash migration down river. This period of dredging was considered "precision" dredging and was focused on returning the river channel to its original (pre-spill) depths while minimizing disturbance of non-impacted sediment. An estimated 780,000 cy of ash had been removed during the Phase II dredging. During dredging operations, turbidity was expected to increase in the immediate area of the dredging. Control practices such as engineering controls (silt curtains) and operational controls (i.e., reduce cutter head speed, reduce rate of advance, and reverse cutter head rotation) were implemented to minimize suspending solids during the dredging operations.

Fish sampling began in January 2009, immediately following the spill, to document baseline contamination conditions at the site. Immediate sampling was aimed at collecting fish before there was sufficient time for ash related contaminants to bioaccumulate in resident fish. Fish sampling has continued seasonally through

2011 to allow characterization of ash-related constituents both spatially and temporally. Samples have been collected to examine fish tissue concentrations of metals and metalloids related to the ash spill as well as legacy constituents found in the Emory and Clinch Rivers (i.e., pesticides, polychlorinated biphenyls [PCBs], and radionuclides). Several agencies (TVA, Tennessee Department of Environment and Conservation [TDEC], Tennessee Wildlife Resources Agency [TWRA], Oak Ridge National Laboratory [ORNL], Tennessee Aquarium, and Appalachian State University [ASU]) have contributed to the various fish sampling events described in this report. The species collected for the different events vary, along with the type of sample (whole body, fillet, organ, etc.) and the chemical analyses. Samples were collected using either electrofishing or gill netting. Each sampling event is described in detail below. Samples have been collected from fish occupying both pelagic (open-water or “top feeding”) and benthic (bottom-dwelling or “bottom-feeding”) communities to determine concentrations of constituents ingested by fish and other predators and their subsequent bioaccumulation.

This report presents a summary of the nature and extent of trace elements in fish tissues and a spatial analysis by river reach. Samples from 2010 only were included in this report as these represent the most complete data set, and the data set that will be used to estimate risks in the baseline environmental risk assessment (BERA).

2. Methods

The methods used for selecting fish species are described below, along with a description of river reaches sampled, field collections, analytical methods, an overview of sampling methods, and statistical comparisons made.

2.1 Species Selection

Over the course of the baseline through 2011 sampling events, 10 fish species have been sampled. Various tissues have been collected and analyzed to evaluate different endpoints. A summary of species, tissue types collected, analyses performed and sample locations is presented in Table 1.

2.1.1 Pelagic Fish Communities

Pelagic fish are fish living in the water column above the bottom of the river system. Pelagic fish can make up all levels of the food chain and include planktivorous, omnivorous, and piscivorous species. They can act as both predators to smaller species, as well as being prey items for higher trophic level predators. Piscivorous pelagic fish are upper trophic level predators, and as a result, they are especially susceptible to exposure to certain constituents known to bioaccumulate in their prey organisms. Concentrations of these constituents in tissue increase with each trophic level due to a process known as bioaccumulation. Fish have been shown to accumulate constituents that are present in aquatic ecosystems. Therefore, fish that consume smaller fish have the potential to accumulate large concentrations of constituents in their tissues.

Pelagic fish have the potential for direct exposure and adverse effects, as well as the potential for accumulation and transfer of constituents to higher trophic level consumers. They can make up a large component of the aquatic food chain, providing an important food resource for piscivorous organisms such as larger fish, birds, and mammals. As a result, the viability of the pelagic fish community was selected as a valid assessment endpoint for the BERA.

Pelagic fish sampled include black and white crappie, bluegill, largemouth bass, redear sunfish, and spotted bass. Bluegill and largemouth bass represent the majority of pelagic samples collected from the Emory and Clinch Rivers.

2.1.2 Benthic Fish Communities

Benthic fish are fish that commonly live and graze along the river bottom. These fish, such as catfish, forage on plant material, benthic invertebrates, or other bottom-feeding fish. Benthic fish can make up all levels of the food chain, including planktivorous, omnivorous, and piscivorous species. They can act as both predators to smaller species, as well as being prey items for higher trophic level predators. Piscivorous benthic fish are upper trophic level predators, and as a result, they are especially susceptible to exposure to constituents that may bioaccumulate in their prey organisms. Benthic fish have the potential for direct

exposure to sediment-bound contaminants and adverse effects, as well as the potential for accumulation and transfer of constituents to higher trophic level consumers. They can make up a large component of the aquatic food chain base, providing an important food resource for piscivorous organisms such as larger fish, birds, and mammals. As a result, the viability of the benthic fish community was selected as a valid assessment endpoint for the BERA.

Benthic fish sampled include blue catfish and channel catfish, although channel catfish represent the vast majority of benthic fish samples.

2.1.3 Forage Fish

Gizzard shad were collected to assess the role and importance of a main forage fish (shad) as a mechanism by which contaminants associated with fly ash are incorporated into the aquatic-terrestrial food chain. Shad are the primary forage fish of the larger piscivorous fish (i.e., bass) and also piscivorous birds (i.e., great blue heron and osprey). They also graze on primary producers (periphyton) and detritus, thus representing an important step in trophic transfer of contaminants. Due to their small size, composite samples consisting of 10 whole gizzard shad each were collected and considered as one sample. A few composite samples of thread fin shad were also collected but have been kept separate from gizzard shad samples and not included in any statistical analyses.

Due to their detrivirous nature, gizzard shad ingest large amounts of sediment. To ensure that the whole body samples do not appear to contain significantly higher contaminant levels due to the gut contents, samples of gizzard shad with the gut or its contents removed were also analyzed.

2.2 Sample Reaches

The spatial boundaries of the river system are those areas impacted by the ash spill, upstream to downstream within the Emory and Clinch Rivers. Each river was divided into reaches to more adequately characterize potential effects to the selected assessment endpoints. Sample reaches are discussed moving from upstream to downstream considering the layout and connectivity of both rivers (Figure 2). Reference locations from each river have also been established to provide accurate comparison to pre-release conditions. The following reaches have been established for each river (Figure 2):

- *Emory River Reference Reach* (ERR) – above ERM 6.0
- *Emory River Sample Reaches* – Emory Reach C (ERC) ERM 6.0 to ERM 3.5; Emory Reach B (ERB) ERM 3.5 to ERM 1.5; Emory Reach A (ERA) ERM 1.5 to ERM 0.0.
- *Clinch River Reference Reach* (CRR) – above Clinch River Mile [CRM] 4.5
- *Clinch River Sample Reaches* – Clinch Reach B (CRB) CRM 6.0 to CRM 3.0; Clinch Reach A (CRA) CRM 3.0 to CRM 0.0;

2.3 Trace Element Analysis

Fish whole body and tissue samples were analyzed from the impacted and reference reaches for trace elements. Samples were analyzed for 26 trace element concentrations (aluminum, antimony, arsenic, barium, beryllium, boron, calcium, cadmium, chromium, cobalt, copper, iron, potassium, lead, magnesium, manganese, mercury, molybdenum, nickel, sodium, selenium, strontium, silver, thallium, vanadium, and zinc) according to Method SW846 6020. Results were reported in milligrams per kilogram wet weight. Percent moisture and percent lipids were also analyzed for all samples. Trace element and percent moisture analysis for all samples but 2010 liver and ovary samples was conducted at Pace Analytical Services, Inc. located in Green Bay, Wisconsin. Liver and ovary samples from 2010 were analyzed by the ALS Group environmental laboratory in Fort Collins, Colorado.

A subset of samples (25 percent of 2010 channel catfish and largemouth bass fillets) was also analyzed for PCBs. PCB aroclors were analyzed in tissues following Method SW846 8082. The legacy pesticides alpha-chlordane and gamma-chlordane were analyzed in 25 percent of channel catfish and largemouth bass fillet samples from 2010 via method SW846 8081.

2.4 Field Collections

Field sampling activities occurred immediately after the release in January 2009, and continued in the spring and fall of 2009 and 2010. Sampling was conducted in accordance with the procedures described in Standard Operating Procedure (SOP) TVA-KIF-SOP-31 *Fish Sampling with Gill Nets*, (issued August 2010), TVA-KIF-SOP-32 *Fish Sampling with Seines*, (issued August 2010), and TVA-KIF-SOP-33 *Fish Sampling with Boat Mounted Electrofishing*, (issued June 2010). Sampling was performed in the Emory and Clinch Rivers. Sampling events, target species, and analyses for each collection are presented by locations reach and river mile in Table 1 and on Figure 2. Only fish collected during the 2010 sampling events are presented in detail in this report as these samples are most representative of current conditions and will be used in the BERA.

The frequency of detection, range of detected concentrations, and mean concentration for all analytes in each fish species and tissue type collected during the 2010 sampling events are presented. Table 2 presents fillet data; Table 3 presents whole body tissue concentrations; Table 4 presents whole body samples without the gut and its content; Table 5 presents liver concentrations; and Table 6 presents concentrations of analytes in ovary samples.

2.4.1 Tennessee Aquarium/ASU Winter 2010

As described in the Fish Tech Memo (Jacobs Engineering 2011) split samples were collected in January 2010 from a number of locations. These split samples are not considered part of the overall fish tissue sampling program and will not be discussed further or included in any tables or statistical comparisons.

2.4.2 TVA Sampling, Spring 2010

Fish were collected between April and July for the Spring 2010 sampling event with the collaboration of TVA, TDEC, TWRA, and ORNL. Samples were collected from reference reaches ERR (ERM 8.0, LERM 2.0), ERC (ERM 4.5), ERB (ERM 3.0, ERM 2.0), ERA (ERM 0.9), a positive control location (CRM 25.0), CRR (CRM 8.0), CRB (CRM 3.5), and CRA (CRM 1.5). Similar to previous sampling events, the positive control location is not thought to be representative of an actual control location and has been excluded from any statistical analysis. Species collected include bluegill, channel catfish, gizzard shad, largemouth bass, red ear sunfish, and white crappie. Two samples (KIF-ERM8.0_BG.F.G.01-FH051110 and KIF-ERM8.0_BG.F.G.03-FH051110) were excluded from statistical analysis for bluegill fillet. These samples were collected from the reference reach of the Emory River and had elevated detection limits due to small initial sample masses (ES, pers. comm. 2011). Sample counts by tissue type and specific locations are presented in Table 1.

2.4.3 Tennessee Aquarium/ASU Fall 2010

As described in the Fish Tech Memo (Jacobs Engineering 2011), additional split samples were collected in September 2010 from a number of locations. These split samples are not considered part of the overall fish tissue sampling program and will not be discussed further or included in any tables or statistical comparisons.

2.4.4 TVA Sampling, Fall 2010

The fall 2010 TVA sampling event was conducted in September, October, and December 2010 as well as January 2011. TVA, TDEC, TWRA, and ORNL collaborated to collect the samples. Fish were collected from reference reaches ERR (ERM 8.0, LERM 2.0), ERC (ERM 4.5), ERB (ERM 3.0, ERM 2.5), ERA (ERM 0.9), CRR (CRM 8.0), CRB (CRM 3.5), and CRA (CRM 1.5). Species sampled include bluegill, channel catfish, gizzard shad, and largemouth bass. Sample counts by tissue type and specific locations are presented in Table 1.

2.5 Statistical Comparisons

For whole body, whole body minus gut and gut content, fillet, liver, and ovary data, one-way analyses of variance (ANOVA) tests were conducted to look for spatial differences in concentrations of analytes across reaches. Separate analyses were performed for each species and tissue type. Metals and legacy constituents were included in initial statistical analysis if the overall frequency of detection of an individual analyte was greater than 20 percent in the given species and tissue type in the comparison. For all analytes with a frequency of detection between 20 percent and 50 percent for a given tissue type and species, the samples in each reach were examined separately. If an analyte was detected in greater than or equal to 50 percent of tissue samples from a reach shown as significantly higher in concentration than a reference reach, this specific reach was kept in the analysis and considered a significant result. In this manner, only

reaches with a detection frequency greater than 50 percent were considered suitable for statistical comparison with the reference reach.

All tissue samples collected during 2010 were analyzed for spatial differences between each sample reach and the reference reach for each river using ANOVA followed by a post-hoc test. Data for each comparison were tested for normality and homogeneity of variance using the Levene's test to determine if a parametric ANOVA and post-hoc Dunnett's test or non-parametric ANOVA and Wilcoxon Mann-Whitney post-hoc test was appropriate. All samples best fit a lognormal distribution and were log transformed for statistical analyses. Samples from both spring and fall 2010 were combined to give better statistical power to see differences in concentrations between sample reaches. As previously discussed two samples collected from the reference reach of the Emory River were excluded from the analysis as they had elevated detection limits due to small initial sample masses (ES, pers. comm. 2011).

For all statistical tests, the null hypothesis of no difference was rejected when p-values were less than 0.05; however, p-values between 0.05 and 0.1 were also evaluated and discussed for conservative measures. Statistical evaluations of calcium, potassium, and sodium were not included as these elements are essential nutrients with little toxicity to fish.

2.5.1 Spatial Analysis

Differences were considered only between reaches of a given river (i.e., comparing reaches CRA and CRB to the CRR and comparing ERA, ERB, and ERC to the ERR). Data from spring and fall 2010 were combined for statistical analysis when data from each season was available to give greater statistical power for detecting differences in concentrations between sample reaches. Statistical results for fillet samples are presented in Table 7. Whole body data for bluegill and gizzard shad collected spring 2010 (no samples collected during fall 2010) were also analyzed to look for spatial differences (Table 8). Similarly, spatial changes in analyte concentrations were examined in whole body gizzard shad samples from spring and fall 2010 without the gut or its content (Table 8). Liver and ovary data for largemouth and bluegill were analyzed in a similar fashion and are presented on Tables 9 and 10, respectively. All statistical results are summarized in Table 11 by tissue type.

3. Nature and Extent by Constituent

As previously discussed, tissue concentrations of each metal and legacy constituent are presented below. Calcium, potassium, and sodium are considered essential nutrients and are not included in this discussion. Statistical differences between sample reaches from 2010 samples are discussed for all tissue types (i.e., fillet, whole body, whole body minus gut or its contents, liver, and ovary) as applicable. Tables for fillet data include Table 2 presenting all the data and Table 12 presenting only significant results. Similarly Tables 3 and 13 present whole body data while Table 4 presents whole body without the gut or its contents. Tables 5 and 14 present liver tissue concentrations and Tables 6 and 15 present ovary tissues. Sample and reference reaches from both the Emory and Clinch Rivers are presented on Figure 2.

Individual results from all 2010 samples discussed below are presented in Appendices A through D for fillet, whole body and whole body without the gut or its contents, liver, and ovary, respectively. Box plots presenting both detected and non-detected results for each constituent by tissue type are included in Appendices E through I for fillet, whole body, whole body without the gut or its contents, liver, and ovary, respectively.

3.1 Aluminum

3.1.1 Fillet

Aluminum was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.1.2 Whole Body

Concentrations of aluminum in whole body tissues of bluegill were higher in sample reaches CRA, ERA, and ERB than the respective reference reaches. In gizzard shad concentrations in CRA and CRB were higher than reference reach CRR. In gizzard shad whole body samples without the gut or its contents, no significant differences were noted compared to reference reaches.

3.1.3 Liver and Ovary

In bluegill liver samples collected during 2010, concentrations of aluminum in reach CRA were significantly higher than reference reach CRR. Similarly, concentrations of aluminum in bluegill ovary tissue were higher in reach CRA than reference reach CRR.

3.2 Antimony

3.2.1 Fillet

Antimony was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.2.2 Whole Body

Antimony was not detected in whole body samples of bluegill or gizzard shad, or in gizzard shad whole body without the gut or its content samples in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.2.3 Liver and Ovary

No differences were noted in detected concentrations of antimony in bluegill or largemouth bass liver samples. Antimony was not detected in greater than 20 percent of bluegill or largemouth bass ovary samples; therefore, no statistical analyses were conducted.

3.3 Arsenic

3.3.1 Fillet

Concentrations of arsenic in bluegill fillet samples were higher in reaches CRB, ERA, ERB, and ERC than the respective reference reaches. In largemouth bass fillet samples, concentrations were higher than reference reach ERR in samples from ERA, ERB, and ERC. No significant differences in arsenic concentrations were noted in channel catfish fillets.

3.3.2 Whole Body

Concentrations of arsenic in whole body bluegill samples were significantly higher in all sample reaches compared to reference reaches (i.e., CRA, CRB, ERA, ERB, and ERC). In gizzard shad whole body samples, concentrations of arsenic were higher in samples from CRA, CRB, ERA, and ERB than the reference locations. In gizzard shad whole body samples without the gut or gut contents, concentrations of arsenic were higher in reaches ERA and ERB than reference reach ERR.

3.3.3 Liver and Ovary

Bluegill liver concentrations of arsenic were significantly higher in reaches CRA, ERA, and ERB than reference reaches. No differences were noted in largemouth bass liver samples. Concentrations of arsenic

in bluegill ovary tissue were significantly higher in reach CRA than reference reach CRR. Ovary concentrations of arsenic in largemouth bass were higher in reach ERA than reference reach ERR.

3.4 Barium

3.4.1 Fillet

No significant differences in barium fillet concentrations were noted between reaches for channel catfish collected in 2010. Significantly higher concentrations than reference reach ERR were noted for barium concentrations in bluegill fillets from location ERC. Barium was not detected in largemouth bass fillet samples in greater than 20 percent of samples from 2010; therefore, no statistical analysis was conducted.

3.4.2 Whole Body

Concentrations of barium were higher in bluegill whole body samples collected from reaches CRA and ERC than their respective reference locations. In gizzard shad whole body samples concentrations were higher in reaches CRA and CRB than reference reach CRR. No differences were noted in gizzard shad whole body samples without the gut or its contents.

3.4.3 Liver and Ovary

No statistical differences were noted for bluegill or largemouth bass liver samples. Barium concentrations in largemouth bass ovary samples were higher in reach ERB than reference reach ERR. No other differences were noted for ovary tissues.

3.5 Beryllium

3.5.1 Fillet

Beryllium was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.5.2 Whole Body

Beryllium was not detected in whole body samples of bluegill or gizzard shad or whole body without the gut or its contents samples of gizzard shad in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.5.3 Liver and Ovary

Similar to other tissue types, beryllium was not detected in greater than 20 percent of bluegill or largemouth bass liver or ovary samples; therefore, no statistical analyses were conducted.

3.6 Boron

3.6.1 Fillet

Boron was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.6.2 Whole Body

Boron was not detected in whole body samples of bluegill or gizzard shad or gizzard shad whole body without the gut or its contents samples in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.6.3 Liver and Ovary

There were no statistical differences noted for boron concentrations in liver tissue from bluegill or largemouth bass samples collected in 2010. Boron was not detected in greater than 20 percent of bluegill or largemouth bass ovary samples; therefore, no statistical analyses were conducted.

3.7 Cadmium

3.7.1 Fillet

Cadmium was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.7.2 Whole Body

In bluegill whole body samples concentrations of cadmium were higher in all reaches (i.e., CRA, CRB, ERA, ERB, and ERC) than the respective reference reaches. In gizzard shad whole body samples significantly higher concentrations were noted in reach CRA only when compared to reference reach CRR. No significant differences in concentrations of cadmium were found in gizzard shad whole body samples without the gut or its contents.

3.7.3 Liver and Ovary

In bluegill liver samples a significantly higher concentration of cadmium compared to a reference reach was noted in reaches CRA and ERA. No significant differences were noted in largemouth bass livers. No differences were noted in bluegill ovary samples. In largemouth bass ovary samples, cadmium concentrations were significantly higher than reference reach ERR in river reach ERA.

3.8 Chlordanes

3.8.1 Fillet

Significant differences were not seen for either alpha- or gamma-chlordane in channel catfish or largemouth bass fillet samples (no chlordane analysis of bluegill fillets).

3.8.2 Whole Body

No whole body samples were analyzed for chlordanes.

3.8.3 Liver and Ovary

No liver or ovary tissue samples were analyzed for chlordanes.

3.9 Chromium

3.9.1 Fillet

Chromium was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.9.2 Whole Body

No differences were noted in chromium whole body concentrations of bluegill. In gizzard shad whole body samples, significantly higher concentrations of chromium were noted in reaches CRA and CRB when compared to reference reach CRR. Chromium was not detected in greater than 20 percent of gizzard shad whole body samples without the gut or its contents samples; therefore, no statistical analyses were conducted.

3.9.3 Liver and Ovary

When comparing sample reaches to reference locations, no significant differences in concentration were noted in liver or ovary tissue samples of bluegill or largemouth bass.

3.10 Cobalt

3.10.1 Fillet

Cobalt was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.10.2 Whole Body

Concentrations of cobalt in whole body bluegill samples were significantly higher from reaches CRA and ERA than the reference locations. In gizzard shad whole body samples, concentrations were higher in samples collected from reaches CRA and CRB than reference reach CRR. No significant differences in cobalt concentrations were noted in gizzard shad whole body samples without the gut or its contents.

3.10.3 Liver and Ovary

No significant differences in cobalt concentrations were noted comparing sample reaches to reference locations in liver or ovary tissue samples of bluegill or largemouth bass.

3.11 Copper

3.11.1 Fillet

Concentrations of copper were significantly higher in bluegill fillet samples collected in reach ERA, ERB, and ERC than reference reach ERR. In largemouth bass fillets, concentrations were higher in reach ERC than the reference. Concentrations of copper in channel catfish fillets were higher in reach ERA than reference reach ERR.

3.11.2 Whole Body

In whole body bluegill samples, concentrations of copper were higher in reaches CRA and CRB than reference reach CRR. No significant differences in gizzard shad whole body samples or whole body without the gut or its content samples were noted in the statistical results.

3.11.3 Liver and Ovary

No significant differences in copper concentrations were noted for bluegill liver or ovary tissues. In largemouth bass, concentrations of copper were significantly higher in reach CRA than the reference in both liver and ovary tissue samples. No other differences in concentrations of copper were noted.

3.12 Iron

3.12.1 Fillet

Iron was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.12.2 Whole Body

No significant differences in bluegill whole body tissue concentrations were noted in either the Clinch or Emory Rivers. Concentrations of iron were higher gizzard shad whole body samples from reaches CRA and CRB than reference reach CRR. In gizzard shad whole body samples without the gut or its contents, concentrations in reach CRB were significantly higher than the reference location.

3.12.3 Liver and Ovary

No significant differences in concentrations of iron were noted in bluegill or largemouth bass liver and ovary samples from either the Clinch or Emory Rivers.

3.13 Lead

3.13.1 Fillet

Lead was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.13.2 Whole Body

In whole body bluegill samples concentrations of lead were significantly higher in reach CRA than the reference location. Concentrations of lead were higher in gizzard shad whole body samples from reaches CRA and CRB when compared to reference reach CRR. No differences were noted in concentrations of lead in gizzard shad whole body samples without the gut or its contents.

3.13.3 Liver and Ovary

No significant differences in concentrations of lead were noted in bluegill or largemouth bass liver samples from either the Clinch or Emory Rivers. Lead was not detected in greater than 20 percent of bluegill or largemouth bass ovary samples; therefore, no statistical analyses were conducted.

3.14 Magnesium

3.14.1 Fillet

Concentrations of magnesium in bluegill and largemouth bass fillet samples were significantly higher in reach CRB than reference reach CRR. No other differences were noted in bluegill, largemouth bass, or channel catfish fillet concentrations.

3.14.2 Whole Body

The magnesium concentration in bluegill whole body samples collected from reach CRA were significantly higher than reference reach CRR. No other differences in magnesium concentrations were noted in bluegill or gizzard shad whole body samples, or in gizzard shad whole body samples without the gut or its contents.

3.14.3 Liver and Ovary

No significant differences in concentrations of magnesium in bluegill or largemouth bass liver or ovary samples were noted in either the Clinch or Emory Rivers.

3.15 Manganese

3.15.1 Fillet

Concentrations of manganese were higher than reference reach ERR in bluegill, channel catfish, and largemouth bass samples from reach ERC. The manganese concentration in largemouth bass fillet from reach CRB was also higher than reference reach CRR.

3.15.2 Whole Body

Concentrations of manganese in sample reaches did not differ from reference reaches in bluegill or gizzard shad whole body samples or gizzard shad whole body minus gut content samples from the Emory or Clinch Rivers.

3.15.3 Liver and Ovary

No significant differences in concentrations of manganese in bluegill or largemouth bass liver samples were noted in either the Clinch or Emory Rivers. The concentration of manganese in bluegill ovary samples was significantly higher in reach CRA than the reference location. No differences in largemouth bass ovary concentrations of manganese were noted.

3.16 Mercury

3.16.1 Fillet

No significant differences in mercury fillet concentrations were noted between sample and reference reaches for bluegill, channel catfish, or largemouth bass.

3.16.2 Whole Body

In whole body samples, the only difference in mercury concentrations was gizzard shad samples comparing reach CRA to reference reach CRR. No differences in concentrations were noted in bluegill whole body samples or gizzard shad whole body samples without the gut or its contents.

3.16.3 Liver and Ovary

Mercury was not analyzed in bluegill or largemouth bass liver or ovary samples from the Clinch or Emory Rivers in 2010; therefore, no statistical analyses were conducted.

3.17 Molybdenum

3.17.1 Fillet

Molybdenum was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.17.2 Whole Body

Concentrations of molybdenum were higher than in the respective reference reaches at locations CRB, ERA, and ERB in bluegill whole body samples. Molybdenum was not detected in greater than 20 percent of gizzard shad whole body samples or gizzard shad whole body without the gut or its content samples in either river in 2010; therefore, no statistical analyses were conducted.

3.17.3 Liver and Ovary

No significant differences in concentrations of molybdenum were noted for bluegill liver samples. Concentrations of molybdenum were higher in reach CRA than reference reach CRR in largemouth bass liver samples. In ovary samples for bluegill and largemouth bass molybdenum concentrations were higher in reach CRA than the reference. No other differences were noted.

3.18 Nickel

3.18.1 Fillet

No significant differences in nickel fillet concentrations were noted between sample and reference reaches for channel catfish in either the Clinch or Emory Rivers. Nickel was not detected in bluegill or largemouth bass fillet samples in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.18.2 Whole Body

No differences in concentrations on nickel in bluegill whole body samples were noted. Concentrations in gizzard shad whole body samples were higher in reach CRA than reference reach CRR. No significant differences in concentrations of nickel were noted in gizzard shad whole body samples without the gut or its contents.

3.18.3 Liver and Ovary

Nickel was not detected in greater than 20 percent of bluegill or largemouth bass liver or ovary samples from the Clinch or Emory Rivers in 2010; therefore, no statistical analyses were conducted.

3.19 PCBs

3.19.1 Fillet

Although other aroclors were analyzed, only aroclors 1254 and 1260 were detected in either channel catfish or largemouth bass fillet samples collected during 2010. No bluegill fillets were analyzed for PCBs. Significantly higher concentrations of aroclor 1254 were seen in reach ERC when compared to reference reach ERR in non-lipid normalized largemouth bass fillet samples.

3.19.2 Whole Body

No whole body samples were analyzed for PCBs.

3.19.3 Liver and Ovary

No liver or ovary tissue samples were analyzed for PCBs.

3.20 Selenium

3.20.1 Fillet

Concentrations of selenium in bluegill fillet samples were higher in all sample reaches (CRA, CRB, ERA, ERB, and ERC) than the respective reference reaches. In largemouth bass fillets concentrations were significantly higher from the reference in reaches CRB, ERA, ERB, and ERC. Channel catfish fillet concentrations of selenium were significantly higher in reaches CRA, ERA, and ERB than the reference locations.

3.20.2 Whole Body

Concentrations of selenium in bluegill whole body samples were higher in all sample reaches (CRA, CRB, ERA, ERB, and ERC) than the respective reference reaches. In gizzard shad whole body samples concentrations were higher in reach ERB than reference reach ERR. Concentrations of selenium in gizzard shad whole body samples without the gut or its content from reaches ERB and ERC were significantly higher than reference reach ERR.

3.20.3 Liver and Ovary

Concentrations of selenium in bluegill liver samples were significantly higher in reaches ERA and ERB than reference reach ERR. No differences in largemouth bass liver concentrations were noted for selenium. No significantly different concentrations of selenium were found between sample and reference reaches in bluegill ovary samples. In largemouth bass ovary samples concentrations of selenium were higher in reaches ERA and ERB than reference reach ERR.

3.21 Silver

3.21.1 Fillet

Silver was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from 2010; therefore, no statistical analyses were conducted.

3.21.2 Whole Body

Concentrations of silver in gizzard shad whole body samples from reach CRA were significantly higher than reference reach CRR. Silver was not detected in greater than 20 percent of bluegill whole body samples or gizzard shad whole body without the gut or its content samples in either river in 2010; therefore, no statistical analyses were conducted.

3.21.3 Liver and Ovary

No significant differences in concentrations of silver were noted in bluegill or largemouth bass liver samples. Silver was not detected in greater than 20 percent of bluegill or largemouth bass ovary samples from either the Clinch or Emory Rivers in 2010; therefore, no statistical analyses were conducted.

3.22 Strontium

3.22.1 Fillet

Concentrations of strontium were higher than the reference reaches in bluegill fillet samples collected from reaches ERB, and ERC. In largemouth bass fillet samples, concentration sin CRB, ERA, and ERC where higher than references. In channel catfish, the only fillet samples with strontium concentrations higher than a reference location were collected from reach ERC.

3.22.2 Whole Body

Concentrations of strontium in bluegill whole body samples were only different from the respective reference reaches in samples from CRA. No significant difference in strontium concentrations were noted in gizzard shad whole body samples or gizzard shad whole body samples without the gut or its contents.

3.22.3 Liver and Ovary

Strontium was not analyzed in bluegill or largemouth bass liver or ovary samples from the Clinch or Emory Rivers in 2010; therefore, no statistical analyses were conducted.

3.22.4 Thallium

3.22.5 Fillet

Thallium was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from either the Clinch or Emory Rivers 2010; therefore, no statistical analyses were conducted.

3.22.6 Whole Body

Thallium was not detected in greater than 20 percent of bluegill or gizzard shad whole body samples or gizzard shad whole body samples without the gut or its content samples in either river in 2010; therefore, no statistical analyses were conducted.

3.22.7 Liver and Ovary

Concentrations of thallium were significantly higher in bluegill liver samples from all reaches sampled (CRA, ERA, and ERB) when compared to reference locations. Largemouth bass liver concentrations of thallium were higher in reaches ERA and ERB than reference reach ERR. The same pattern of elevated concentrations (CRA, ERA and ERB for bluegill and ERA and ERB for largemouth bass) was noted for ovary samples.

3.23 Vanadium

3.23.1 Fillet

Vanadium was not detected in fillet samples from bluegill, channel catfish, or largemouth bass in greater than 20 percent of samples from either the Clinch or Emory Rivers 2010; therefore, no statistical analyses were conducted.

3.23.2 Whole Body

Concentrations of vanadium were higher than the respective reference reach at locations CRA, CRB, ERA, and ERB in bluegill whole body samples. In gizzard shad whole body samples, concentrations of vanadium were significant higher than the reference in reaches CRA and CRB. In gizzard shad whole body without the gut or its content samples, the concentration of vanadium in samples from reach ERB was higher than the reference location

3.23.3 Liver and Ovary

A significantly higher concentration of vanadium was noted in reach CRA than reference reach CRR in bluegill liver samples. No differences were seen in largemouth bass liver samples. Vanadium was not detected in greater than 20 percent of bluegill or largemouth bass ovary samples from either the Clinch or Emory Rivers in 2010; therefore, no statistical analysis was conducted.

3.24 Zinc

3.24.1 Fillet

Concentrations of zinc were higher than reference reach ERR in bluegill fillet samples from ERA. In largemouth bass fillet samples concentrations from reaches ERA, ERB, and ERC were all higher than reference reach ERR. No significant differences in channel catfish fillet concentrations were noted.

3.24.2 Whole Body

Concentrations of zinc were higher than the respective reference reach in samples from CRA in bluegill whole body samples only. No significant differences in zinc concentrations were noted in gizzard shad whole body samples. In gizzard shad whole body minus gut content samples, concentrations in ERA and ERB were higher than reference reach ERR.

3.24.3 Liver and Ovary

No significant differences in concentrations of zinc were noted in bluegill or largemouth bass liver or ovary samples from either the Clinch or Emory Rivers.

4. Discussion and Findings

Results of tissue analysis were considered by tissue type, species, and sample reach to gain perspective on post ash release conditions in the Emory and Clinch Rivers. As previously discussed, to be considered statistical significant, each of these analytes was detected in greater than 20 percent of samples for a given species and tissue type, and was detected in greater than 50 percent of samples for a given sample reach for a species and tissue type. Table 11 presents a summary of all significant results of the spatial analysis.

Considering all tissue types, species, and sample reaches, the following metals were detected in at least one sample reach at a concentration greater than a reference reach in 2010 samples: aluminum, arsenic, barium, cadmium, chromium, cobalt, copper, iron, lead, magnesium, manganese, mercury, molybdenum, nickel, selenium, silver, strontium, thallium, vanadium, and zinc. Aroclor 1254 was also detected in one reach at a concentration significantly greater than the reference location in largemouth bass fillet. Of these constituents, arsenic and selenium were detected at concentrations significantly higher than a reference location in the most sample reaches. Arsenic was detected at a significantly higher concentration than a reference location in 23 of 42 possible instances while selenium was detected at a significantly higher concentration than a reference location in 24 of 42 possible instances (Table 11).

4.1 Results by Tissue Type

4.1.1 Fillet

Fillet samples of bluegill, catfish, and largemouth bass from all sample reaches were examined for trace metals. A summary of all statistical results of fillet samples is presented in Table 11. Of these samples, significantly higher concentrations than a reference reach were noted for arsenic, barium, copper, magnesium, manganese, selenium, strontium, and zinc. Arsenic, selenium, and strontium were detected at higher concentrations than the reference location at the most locations. Aroclor 1254 was detected at a higher concentration in largemouth bass fillet samples from a sample reach when compared to the reference reach. No other legacy constituents (i.e., other PCB aroclors or chlordanes) were detected at higher concentrations in sample reaches than reference reaches.

4.1.2 Whole Body

A summary of statistical results for whole body samples is presented in Table 11. Significantly higher concentrations than a reference reach in both bluegill and gizzard shad were noted for aluminum, arsenic, barium, cadmium, cobalt, lead, selenium, and vanadium. Significant differences in bluegill only were noted in copper, magnesium, molybdenum, strontium, and zinc; for gizzard shad only differences were noted in chromium, iron, mercury, nickel, and silver.

4.1.3 Whole Body without the Gut or Its Contents

Significantly higher concentrations than a reference reach in gizzard shad without the gut or its content samples were noted for arsenic, iron, selenium, vanadium, and zinc. Statistical results for whole body samples without the gut or its contents are summarized in Table 11.

4.1.4 Liver

Statistical results for liver samples are summarized in Table 11. Higher concentrations than a reference reach were noted in bluegill liver samples for aluminum, arsenic, cadmium, selenium, thallium, and vanadium. Significantly higher concentrations than reference reaches in largemouth bass liver samples were noted for copper, molybdenum, and thallium.

4.1.5 Ovary

All statistical results for ovary samples are summarized in Table 11. Significantly higher concentrations than a reference reach in ovary samples for bluegill were noted for aluminum, arsenic, magnesium, molybdenum, and thallium, while for ovary samples for largemouth bass, higher concentrations were noted for arsenic, barium, cadmium, copper, molybdenum, selenium, and thallium.

4.2 Results by Species

4.2.1 Bluegill

Bluegill represent the most complete data set, and include fillet, whole body, liver and ovary samples being analyzed for metals. All statistical results for bluegill samples are summarized in Table 11. Aluminum, arsenic, barium, cadmium, cobalt, copper, lead, magnesium, manganese, molybdenum, selenium, strontium, thallium, vanadium, and zinc were noted at higher concentrations than a reference reach in at least one tissue type. Only arsenic was noted at significantly higher concentrations than reference in all four tissue types collected. Arsenic (13 significant results of 16 possible) and selenium (11 significant results of 16 possible) were detected at concentrations above the reference reaches the most consistently (Table 11).

4.2.2 Largemouth Bass

Largemouth bass samples of fillet, liver, and ovary were analyzed for trace metals (Table 11). Fillet samples were also analyzed for the legacy constituents PCBs and chlordanes. Arsenic, barium, cadmium, copper, magnesium, manganese, molybdenum, selenium, strontium, thallium, zinc, and aroclor 1254 were detected at significantly higher concentrations in a sample reach than a reference reach in at least one tissue type. Only copper was detected at higher concentrations than reference in all tissue types, although significant results were limited in spatial distribution. As presented in Table 11, selenium was detected at significantly higher concentrations than reference the most consistently (six significant results of 11 possible).

4.2.3 Channel Catfish

Channel catfish fillet samples were the only tissue type analyzed for only metals. Copper, manganese, selenium, and strontium were detected at higher concentrations than reference reaches. Selenium was detected at concentrations above the reference reaches the most consistently (three significant results of five possible) (Table 11).

4.2.4 Gizzard Shad

Gizzard shad whole body and whole body without the gut or its content samples were analyzed for only metals. In whole body samples, aluminum, arsenic, barium, cadmium, chromium, cobalt, iron, lead, mercury, nickel, selenium, silver, and vanadium were detected at higher concentrations than reference reaches. In whole body samples without the gut or its content, only arsenic, iron, selenium vanadium, and zinc were seen at significantly higher concentrations than a reference reach. Arsenic, iron, selenium, and vanadium were detected at higher concentrations than reference reaches in both whole body samples with and without the gut contents, arsenic was detected at concentrations above the reference reaches the most consistently (six significant results of 10 possible) (Table 11).

4.3 Results by River Reach

As previously discussed, arsenic and selenium were detected at significantly higher concentrations in sample reaches when compared to reference reaches considering all species and tissue types the most often; the discussion of results by river reach will focus on arsenic and selenium. Sample reaches showing significantly higher concentrations of arsenic and selenium for all species and tissue types are presented in Table 11.

Arsenic was detected at a significantly higher concentration than a reference location from every sample reach when all species and tissues are considered. In fillet tissues only, higher concentrations of arsenic were seen most often in the Emory River, with higher concentrations noted in reaches ERC, ERB, and ERA compared to reference locations. In the Clinch River the only significantly higher concentrations of arsenic fillet concentrations were in bluegill collected from reach CRB. In whole body samples, higher concentrations than reference areas were noted in all sample reaches, although this may be influenced by the contents of the gut which may include sediments. When whole body samples with the gut or its contents removed are examined, significantly higher concentrations than reference were only seen in reaches ERB and ERA for arsenic. No differences in arsenic concentration were seen in whole body samples without the gut or its contents collected from the Clinch River. Liver samples showed significantly higher concentrations in reaches ERB, ERA, and CRA in bluegill. No significant differences were noted in largemouth bass liver samples. In ovary samples arsenic concentrations were higher in reaches ERA only for largemouth bass and CRA only for bluegill.

Overall, there appears to be an upstream to downstream trend of significant results with higher concentrations in Emory River sample reaches than the Emory River reference location. Moving further downstream into the Clinch River there are fewer differences (i.e., sample reach higher than reference) in tissue concentrations considering fillet, whole body without gut, and liver samples (Table 11). Ovary samples do not match this trend with the only significantly higher concentrations when compared to a reference being the downstream reach of the Emory River (ERA) and the upstream reach of the Clinch River (CRA). It should be noted that no ovary samples were collected from Clinch River reach CRB, which falls between ERA and CRA (Figure 2).

Significantly higher concentrations of selenium were seen in all sample reaches from the Emory and Clinch Rivers in bluegill fillet samples. In largemouth bass fillet samples, higher concentrations were noted in reaches ERC, ERB, ERA, and CRB when compared to reference locations. In fillet samples of channel catfish, higher concentrations of selenium were noted in reaches ERB, ERA, and CRA only. Considering whole body samples of bluegill, significantly higher tissues concentrations of selenium were noted in all reaches when compared to reference locations. In gizzard shad whole body samples, the only significantly higher concentration of selenium was in reach ERB when compared to a reference. In the gizzard whole body samples without the gut or its contents, significantly higher concentrations were noted in sample reaches ERC and ERB only. Similarly, in bluegill liver samples, higher concentrations were only seen in reaches ERB and ERA. No differences in concentrations were noted in largemouth bass liver samples. In ovary samples, no differences in selenium concentration were noted in bluegill, but in largemouth bass, significantly higher concentrations were noted in reaches ERB and ERA. Taken collectively, there appears to be a similar trend to arsenic, with sample reaches having higher selenium concentrations than reference reaches in the overall upstream locations (Emory River). Moving downstream into the Clinch River, there are less significant differences in concentrations of selenium (Table 11).

5. References

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Table 1. Summary of Species, Tissue Types Collected, Analyses Performed, and Sample Locations by Sampling Event (2009-2011)
Tennessee Valley Authority Kingston, Tennessee

Event		Reach	Location	Year	Species	Aliquot Type	Sample Method	Inorganic Sample Count	PCB Sample Count	Pesticide Sample Count
Baseline	1	ER_A	ERM0.5	2009	Blue Catfish	Fillet	Grab	5		
Baseline	1	CR_R	CRM9.5	2009	Blue Catfish	Fillet	Grab	5		
Baseline	1	ER_R	ERM8.0	2009	Channel Catfish	Fillet	Grab	6		
Baseline	1	ER_A	ERM0.5	2009	Channel Catfish	Fillet	Grab	4		
Baseline	1	CR_R	CRM9.5	2009	Channel Catfish	Fillet	Grab	4		
Baseline	1	CR_A	CRM1.5	2009	Channel Catfish	Fillet	Grab	5		
Baseline	1	ER_R	ERM8.0	2009	Largemouth Bass	Fillet	Grab	6		
Baseline	1	ER_A	ERM0.5	2009	Largemouth Bass	Fillet	Grab	8		
Baseline	1	CR_R	CRM9.5	2009	Largemouth Bass	Fillet	Grab	5		
Baseline	1	CR_A	CRM1.5	2009	Largemouth Bass	Fillet	Grab	4		
Baseline	1	CR_A	CRM1.5	2009	Spotted Bass	Fillet	Grab	1		
Spring 2009	2	ER_B	ERM3.0	2009	Black Crappie	Fillet	Grab	2		
Spring 2009	2	ER_R	ERM8.0	2009	Black Crappie	Whole Body	Grab	5		
Spring 2009	2	ER_B	ERM2.0	2009	Black Crappie	Whole Body	Grab	5		
Spring 2009	2	ER_A	ERM0.9	2009	Black Crappie	Whole Body	Grab	5		
Spring 2009	2	CR_R	CRM8.0	2009	Black Crappie	Whole Body	Grab	5		
Spring 2009	2	ER_C	ERM6.0	2009	Blue Catfish	Whole Body	Grab	9		
Spring 2009	2	ER_R	ERM8.0	2009	Bluegill	Fillet	Grab	6		
Spring 2009	2	ER_B	ERM3.0	2009	Bluegill	Fillet	Grab	6		
Spring 2009	2	ER_A	ERM0.9	2009	Bluegill	Fillet	Grab	6		
Spring 2009	2	CR_R	CRM8.0	2009	Bluegill	Fillet	Grab	6		
Spring 2009	2	CR_A	CRM1.5	2009	Bluegill	Fillet	Grab	6		
Spring 2009	ALS	ER_R	ERM8.0	2009	Bluegill	Ovary	Grab - ALS	6		
Spring 2009	ALS	ER_B	ERM3.0	2009	Bluegill	Ovary	Grab - ALS	5		
Spring 2009	ALS	ER_A	ERM0.9	2009	Bluegill	Ovary	Grab - ALS	5		
Spring 2009	ALS	CR_R	CRM8.0	2009	Bluegill	Ovary	Grab - ALS	5		
Spring 2009	ALS	CR_A	CRM1.5	2009	Bluegill	Ovary	Grab - ALS	5		
Spring 2009	2	ER_B	EEMBAY	2009	Bluegill	Whole Body	Composite	5		
Spring 2009	2	ER_B	EEMBAY	2009	Bluegill	Whole Body (minus gut content)	Composite	1		
Spring 2009	ALS		ERM8.0	2009	Channel Catfish	Liver	Grab - ALS	6		
Spring 2009	ALS	ER_B	ERM2.0	2009	Channel Catfish	Liver	Grab - ALS	6		
Spring 2009	ALS	ER_A	ERM0.5	2009	Channel Catfish	Liver	Grab - ALS	4		
Spring 2009	ALS	CR_A	CRM1.5	2009	Channel Catfish	Liver	Grab - ALS	4		
Spring 2009	ALS	ER_R	ERM8.0	2009	Channel Catfish	Ovary	Grab - ALS	2		
Spring 2009	2	ER_C	ERM6.0	2009	Channel Catfish	Ovary	Grab	5		
Spring 2009	ALS	ER_B	ERM2.0	2009	Channel Catfish	Ovary	Grab - ALS	1		
Spring 2009	2	ER_A	ERM0.7	2009	Channel Catfish	Ovary	Grab	3		
Spring 2009	ALS	ER_A	ERM0.5	2009	Channel Catfish	Ovary	Grab - ALS	1		
Spring 2009	2	ER_C	ERM6.0	2009	Channel Catfish	Whole Body	Grab	9		
Spring 2009	2	ER_A	ERM0.7	2009	Channel Catfish	Whole Body	Grab	7		
Spring 2009	ALS	KFP	KFP0.1	2009	Common Carp	Liver	Grab - ALS	5		
Spring 2009	ALS	KFP	KFP0.1	2009	Common Carp	Ovary	Grab - ALS	3		
Spring 2009	2	ER_R	ERM8.0	2009	Gizzard Shad	Whole Body	Composite	3		
Spring 2009	2	ER_B	EEMBAY	2009	Gizzard Shad	Whole Body	Composite	2		
Spring 2009	2	ER_B	ERM3.0	2009	Gizzard Shad	Whole Body	Composite	3		
Spring 2009	2	ER_A	ERM0.9	2009	Gizzard Shad	Whole Body	Composite	3		
Spring 2009	2	CR_R	CRM7.0	2009	Gizzard Shad	Whole Body	Composite	3		
Spring 2009	2	CR_A	CRM1.5	2009	Gizzard Shad	Whole Body	Composite	3		
Spring 2009	2	ER_R	ERM8.0	2009	Largemouth Bass	Fillet	Grab	6		
Spring 2009	2	ER_B	ERM3.0	2009	Largemouth Bass	Fillet	Grab	5		
Spring 2009	2	ER_A	ERM0.9	2009	Largemouth Bass	Fillet	Grab	6		
Spring 2009	2	CR_R	CRM8.0	2009	Largemouth Bass	Fillet	Grab	6		
Spring 2009	2	CR_A	CRM1.5	2009	Largemouth Bass	Fillet	Grab	6		
Spring 2009	ALS	ER_R	ERM8.0	2009	Largemouth Bass	Liver	Grab - ALS	12		
Spring 2009	ALS	ER_B	ERM2.0	2009	Largemouth Bass	Liver	Grab - ALS	6		
Spring 2009	ALS	ER_B	ERM3.0	2009	Largemouth Bass	Liver	Grab - ALS	6		
Spring 2009	ALS	ER_A	ERM0.5	2009	Largemouth Bass	Liver	Grab - ALS	4		

Notes:

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TDEC - Tennessee Department of Environment and Conservation

CR_A - Clinch Reach A
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Table 1. Summary of Species, Tissue Types Collected, Analyses Performed, and Sample Locations by Sampling Event (2009-2011)
Tennessee Valley Authority Kingston, Tennessee

Event		Reach	Location	Year	Species	Aliquot Type	Sample Method	Inorganic Sample Count	PCB Sample Count	Pesticide Sample Count
Spring 2009	ALS	CR_R	CRM8.0	2009	Largemouth Bass	Ovary	Grab - ALS	5		
Spring 2009	ALS	CR_A	CRM1.5	2009	Largemouth Bass	Ovary	Grab - ALS	8		
Spring 2009	2	ER_C	ERM6.0	2009	Largemouth Bass	Whole Body	Grab	5		
Spring 2009	2	ER_A	ERM1.0	2009	Largemouth Bass	Whole Body	Grab	7		
Spring 2009	2	ER_B	EEMBAY	2009	Largemouth Bass	Whole Body (minus gut content)	Grab	5		
Spring 2009	2	ER_B	EEMBAY	2009	Red Ear Sunfish	Whole Body	Composite	1		
Spring 2009	2	ER_B	EEMBAY	2009	Red Ear Sunfish	Whole Body (minus gut content)	Composite	1		
Spring 2009	2	ER_R	ERM8.0	2009	White Crappie	Fillet	Grab	4		
Spring 2009	2	ER_B	ERM3.0	2009	White Crappie	Fillet	Grab	4		
Spring 2009	2	ER_A	ERM0.9	2009	White Crappie	Fillet	Grab	1		
Spring 2009	2	CR_R	CRM8.0	2009	White Crappie	Fillet	Grab	4		
Spring 2009	2	CR_A	CRM1.5	2009	White Crappie	Fillet	Grab	2		
Spring 2009	ALS	ER_R	ERM8.0	2009	White Crappie	Liver	Grab - ALS	4		
Spring 2009	ALS	ER_B	ERM3.0	2009	White Crappie	Liver	Grab - ALS	1		
Spring 2009	ALS	ER_A	ERM0.9	2009	White Crappie	Liver	Grab - ALS	4		
Spring 2009	ALS	CR_R	CRM8.0	2009	White Crappie	Liver	Grab - ALS	4		
Spring 2009	ALS	CR_A	CRM1.5	2009	White Crappie	Liver	Grab - ALS	2		
Spring 2009	ALS	ER_R	ERM8.0	2009	White Crappie	Ovary	Grab - ALS	4		
Spring 2009	ALS	ER_B	ERM3.0	2009	White Crappie	Ovary	Grab - ALS	1		
Spring 2009	ALS	ER_A	ERM0.9	2009	White Crappie	Ovary	Grab - ALS	4		
Spring 2009	ALS	CR_R	CRM8.0	2009	White Crappie	Ovary	Grab - ALS	4		
Spring 2009	ALS	CR_A	CRM1.5	2009	White Crappie	Ovary	Grab - ALS	2		
Fall 2009	3	ER_R	ERM8.0	2009	Bluegill	Carcass	Grab	4		
Fall 2009	3	ER_R	LERM2.0	2009	Bluegill	Carcass	Grab	4		
Fall 2009	3	ER_B	ERM3.0	2009	Bluegill	Carcass	Grab	4		
Fall 2009	3	ER_A	ERM0.9	2009	Bluegill	Carcass	Grab	4		
Fall 2009	3	CR_R	CRM8.0	2009	Bluegill	Carcass	Grab	3		
Fall 2009	3	CR_A	CRM1.5	2009	Bluegill	Carcass	Grab	4		
Fall 2009	3	Positive control	CRM25.0	2009	Bluegill	Carcass	Grab	4		
Fall 2009	3	ER_R	ERM8.0	2009	Bluegill	Fillet	Grab	6		
Fall 2009	3	ER_R	LERM2.0	2009	Bluegill	Fillet	Grab	6		
Fall 2009	3	ER_B	ERM3.0	2009	Bluegill	Fillet	Grab	6		
Fall 2009	3	ER_A	ERM0.9	2009	Bluegill	Fillet	Grab	6		
Fall 2009	3	CR_R	CRM8.0	2009	Bluegill	Fillet	Grab	6		
Fall 2009	3	CR_A	CRM1.5	2009	Bluegill	Fillet	Grab	6		
Fall 2009	3	Positive control	CRM25.0	2009	Bluegill	Fillet	Grab	6		
Fall 2009	3	ER_R	ERM8.0	2009	Channel Catfish	Fillet	Grab	6		
Fall 2009	3	ER_B	ERM3.0	2009	Channel Catfish	Fillet	Grab	6		
Fall 2009	3	ER_A	ERM0.9	2009	Channel Catfish	Fillet	Grab	6		
Fall 2009	3	CR_R	CRM8.0	2009	Channel Catfish	Fillet	Grab	6		
Fall 2009	3	CR_A	CRM1.5	2009	Channel Catfish	Fillet	Grab	5		
Fall 2009	3	Positive control	CRM25.0	2009	Channel Catfish	Fillet	Grab	6		
Fall 2009	3	ER_B	EEMBAY	2009	Gizzard Shad	Whole Body	Composite	3		
Fall 2009	3	ER_B	ERM2.0	2009	Gizzard Shad	Whole Body	Composite	1		
Fall 2009	3	ER_B	ERM2.5	2009	Gizzard Shad	Whole Body	Composite	3		
Fall 2009	3	CR_R	CRM8.0	2009	Gizzard Shad	Whole Body	Composite	3		
Fall 2009	3	CR_A	CRM1.5	2009	Gizzard Shad	Whole Body	Composite	3		
Fall 2009	3	Positive control	CRM25.0	2009	Gizzard Shad	Whole Body	Composite	2		
Fall 2009	3	ER_R	ERM8.0	2009	Largemouth Bass	Carcass	Grab	4		
Fall 2009	3	ER_R	LERM2.0	2009	Largemouth Bass	Carcass	Grab	4		
Fall 2009	3	ER_B	ERM2.0	2009	Largemouth Bass	Carcass	Grab	1		
Fall 2009	3	ER_B	ERM3.0	2009	Largemouth Bass	Carcass	Grab	3		
Fall 2009	3	ER_A	ERM0.9	2009	Largemouth Bass	Carcass	Grab	4		
Fall 2009	3	CR_R	CRM8.0	2009	Largemouth Bass	Carcass	Grab	4		
Fall 2009	3	CR_A	CRM1.5	2009	Largemouth Bass	Carcass	Grab	4		
Fall 2009	3	Positive control	CRM25.0	2009	Largemouth Bass	Carcass	Grab	4		
Fall 2009	3	ER_R	ERM8.0	2009	Largemouth Bass	Fillet	Grab	6		

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Table 1. Summary of Species, Tissue Types Collected, Analyses Performed, and Sample Locations by Sampling Event (2009-2011)
Tennessee Valley Authority Kingston, Tennessee

Event		Reach	Location	Year	Species	Aliquot Type	Sample Method	Inorganic Sample Count	PCB Sample Count	Pesticide Sample Count
Fall 2009	3	ER_R	LERM2.0	2009	Largemouth Bass	Fillet	Grab	6		
Fall 2009	3	ER_B	ERM3.0	2009	Largemouth Bass	Fillet	Grab	6		
Fall 2009	3	ER_A	ERM0.9	2009	Largemouth Bass	Fillet	Grab	6		
Fall 2009	3	CR_R	CRM8.0	2009	Largemouth Bass	Fillet	Grab	6		
Fall 2009	3	CR_A	CRM1.5	2009	Largemouth Bass	Fillet	Grab	6		
Fall 2009	3	Positive control	CRM25.0	2009	Largemouth Bass	Fillet	Grab	5		
Fall 2009	3	ER_B	EEMBAY	2009	Thread Fin Shad	Whole Body	Composite	3		
Spring 2010	4	ER_R	ERM8.0	2010	Bluegill	Carcass	Grab	4		
Spring 2010	4	ER_R	LERM2.0	2010	Bluegill	Carcass	Grab	3		
Spring 2010	4	ER_C	ERM4.5	2010	Bluegill	Carcass	Grab	6		
Spring 2010	4	ER_B	ERM3.0	2010	Bluegill	Carcass	Grab	4		
Spring 2010	4	ER_A	ERM0.9	2010	Bluegill	Carcass	Grab	5		
Spring 2010	4	CR_R	CRM8.0	2010	Bluegill	Carcass	Grab	8	2	2
Spring 2010	4	CR_B	CRM3.5	2010	Bluegill	Carcass	Grab	6	2	2
Spring 2010	4	CR_A	CRM1.5	2010	Bluegill	Carcass	Grab	3		
Spring 2010	4	Positive control	CRM25.0	2010	Bluegill	Carcass	Grab	3		
Spring 2010	4	ER_R	ERM8.0	2010	Bluegill	Fillet	Grab	6		
Spring 2010	4	ER_R	LERM2.0	2010	Bluegill	Fillet	Grab	6		
Spring 2010	4	ER_C	ERM4.5	2010	Bluegill	Fillet	Grab	6		
Spring 2010	4	ER_B	ERM3.0	2010	Bluegill	Fillet	Grab	6		
Spring 2010	4	ER_A	ERM0.9	2010	Bluegill	Fillet	Grab	5		
Spring 2010	4	CR_R	CRM8.0	2010	Bluegill	Fillet	Grab	11		
Spring 2010	4	CR_B	CRM3.5	2010	Bluegill	Fillet	Grab	6		
Spring 2010	4	CR_A	CRM1.5	2010	Bluegill	Fillet	Grab	6		
Spring 2010	4	Positive control	CRM25.0	2010	Bluegill	Fillet	Grab	3		
Spring 2010	ALS	ER_R	ERM8.0	2010	Bluegill	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_R	ERM8.0	2010	Bluegill	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_B	ERM3.0	2010	Bluegill	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_A	ERM0.9	2010	Bluegill	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_R	CRM8.0	2010	Bluegill	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_A	CRM1.5	2010	Bluegill	Liver	Grab - ALS	3		
Spring 2010	ALS	Positive Control	CRM25.0	2010	Bluegill	Liver	Grab - ALS	1		
Spring 2010	ALS	ER_R	ERM8.0	2010	Bluegill	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_R	LERM2.0	2010	Bluegill	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_B	ERM3.0	2010	Bluegill	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_A	ERM0.9	2010	Bluegill	Ovary	Grab - ALS	5		
Spring 2010	ALS	CR_R	CRM8.0	2010	Bluegill	Ovary	Grab - ALS	4		
Spring 2010	ALS	CR_A	CRM1.5	2010	Bluegill	Ovary	Grab - ALS	5		
Spring 2010	ALS	Positive Control	CRM25.0	2010	Bluegill	Ovary	Grab - ALS	1		
Spring 2010	4	ER_R	ERM8.0	2010	Bluegill	Whole Body	Composite	3		
Spring 2010	4	ER_C	ERM4.5	2010	Bluegill	Whole Body	Composite	3		
Spring 2010	4	ER_B	ERM2.0	2010	Bluegill	Whole Body	Composite	4		
Spring 2010	4	ER_A	ERM0.9	2010	Bluegill	Whole Body	Composite	3		
Spring 2010	4	CR_R	CRM8.0	2010	Bluegill	Whole Body	Composite	3		
Spring 2010	4	CR_B	CRM3.5	2010	Bluegill	Whole Body	Composite	8		
Spring 2010	4	CR_A	CRM1.5	2010	Bluegill	Whole Body	Composite	3		
Spring 2010	4	ER_R	ERM8.0	2010	Channel Catfish	Carcass	Grab	8	2	2
Spring 2010	4	ER_C	ERM4.5	2010	Channel Catfish	Carcass	Grab	6	2	2
Spring 2010	4	ER_B	ERM2.0	2010	Channel Catfish	Carcass	Grab	7	2	2
Spring 2010	4	ER_A	ERM0.9	2010	Channel Catfish	Carcass	Grab	5	2	2
Spring 2010	4	CR_R	CRM8.0	2010	Channel Catfish	Carcass	Grab	7	2	2
Spring 2010	4	CR_B	CRM3.5	2010	Channel Catfish	Carcass	Grab	6	2	2
Spring 2010	4	CR_A	CRM1.5	2010	Channel Catfish	Carcass	Grab	6	2	2
Spring 2010	4	ER_R	ERM8.0	2010	Channel Catfish	Fillet	Grab	8	2	2
Spring 2010	4	ER_C	ERM4.5	2010	Channel Catfish	Fillet	Grab	6	2	2
Spring 2010	4	ER_B	ERM2.0	2010	Channel Catfish	Fillet	Grab	7	2	2
Spring 2010	4	ER_A	ERM0.9	2010	Channel Catfish	Fillet	Grab	5	2	2

Notes:
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Event		Reach	Location	Year	Species	Aliquot Type	Sample Method	Inorganic Sample Count	PCB Sample Count	Pesticide Sample Count
Spring 2010	4	CR_R	CRM8.0	2010	Channel Catfish	Fillet	Grab	7	2	2
Spring 2010	4	CR_B	CRM3.5	2010	Channel Catfish	Fillet	Grab	6	2	2
Spring 2010	4	CR_A	CRM1.5	2010	Channel Catfish	Fillet	Grab	6	2	2
Spring 2010	4	ER_R	ERM8.0	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	ER_R	LERM2.0	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	ER_C	ERM4.5	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	ER_B	ERM3.0	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	ER_A	ERM0.9	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	CR_R	CRM8.0	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	CR_B	CRM3.5	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	CR_A	CRM1.5	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	Positive control	CRM25.0	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2010	4	ER_R	ERM8.0	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	ER_R	LERM2.0	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	ER_C	ERM4.5	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	ER_B	ERM3.0	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	ER_A	ERM0.9	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	CR_R	CRM8.0	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	CR_B	CRM3.5	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	CR_A	CRM1.5	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	Positive control	CRM25.0	2010	Gizzard Shad	Whole Body	Composite	3		
Spring 2010	4	ER_R	ERM8.0	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	ER_R	LERM2.0	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	ER_C	ERM4.5	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	ER_B	ERM3.0	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	ER_A	ERM0.9	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	CR_R	CRM8.0	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	CR_B	CRM3.5	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	CR_A	CRM1.5	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	Positive control	CRM25.0	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2010	4	ER_R	ERM8.0	2010	Largemouth Bass	Carcass	Grab	3	1	1
Spring 2010	4	ER_R	LERM2.0	2010	Largemouth Bass	Carcass	Grab	3		
Spring 2010	4	ER_C	ERM4.5	2010	Largemouth Bass	Carcass	Grab	6	1	1
Spring 2010	4	ER_B	ERM3.0	2010	Largemouth Bass	Carcass	Grab	3	2	2
Spring 2010	4	ER_A	ERM0.9	2010	Largemouth Bass	Carcass	Grab	3	1	1
Spring 2010	4	CR_R	CRM8.0	2010	Largemouth Bass	Carcass	Grab	3	2	2
Spring 2010	4	CR_B	CRM3.5	2010	Largemouth Bass	Carcass	Grab	6	2	2
Spring 2010	4	CR_A	CRM1.5	2010	Largemouth Bass	Carcass	Grab	3		
Spring 2010	4	Positive control	CRM25.0	2010	Largemouth Bass	Carcass	Grab	3		
Spring 2010	4	ER_R	ERM8.0	2010	Largemouth Bass	Fillet	Grab	6	2	2
Spring 2010	4	ER_R	LERM2.0	2010	Largemouth Bass	Fillet	Grab	6		
Spring 2010	4	ER_C	ERM4.5	2010	Largemouth Bass	Fillet	Grab	6	2	2
Spring 2010	4	ER_B	ERM3.0	2010	Largemouth Bass	Fillet	Grab	6	2	2
Spring 2010	4	ER_A	ERM0.9	2010	Largemouth Bass	Fillet	Grab	6	3	3
Spring 2010	4	CR_R	CRM8.0	2010	Largemouth Bass	Fillet	Grab	6	2	2
Spring 2010	4	CR_B	CRM3.5	2010	Largemouth Bass	Fillet	Grab	6	2	2
Spring 2010	4	CR_A	CRM1.5	2010	Largemouth Bass	Fillet	Grab	6	2	2
Spring 2010	4	Positive control	CRM25.0	2010	Largemouth Bass	Fillet	Grab	6		
Spring 2010	ALS	ER_R	ERM8.0	2010	Largemouth Bass	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_R	LERM2.0	2010	Largemouth Bass	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_B	ERM3.0	2010	Largemouth Bass	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_A	ERM0.9	2010	Largemouth Bass	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_R	CRM8.0	2010	Largemouth Bass	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_A	CRM1.5	2010	Largemouth Bass	Liver	Grab - ALS	3		
Spring 2010	ALS	Positive Control	CRM25.0	2010	Largemouth Bass	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_R	ERM8.0	2010	Largemouth Bass	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_R	LERM2.0	2010	Largemouth Bass	Ovary	Grab - ALS	5		

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Spring 2010	ALS	ER_B	ERM3.0	2010	Largemouth Bass	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_A	ERM0.9	2010	Largemouth Bass	Ovary	Grab - ALS	5		
Spring 2010	ALS	CR_R	CRM8.0	2010	Largemouth Bass	Ovary	Grab - ALS	4		
Spring 2010	ALS	CR_A	CRM1.5	2010	Largemouth Bass	Ovary	Grab - ALS	5		
Spring 2010	ALS	Positive Control	CRM25.0	2010	Largemouth Bass	Ovary	Grab - ALS	5		
Spring 2010	4	ER_R	ERM8.0	2010	Red Ear Sunfish	Fillet	Grab	6		
Spring 2010	4	ER_R	LERM2.0	2010	Red Ear Sunfish	Fillet	Grab	6		
Spring 2010	4	ER_B	ERM3.0	2010	Red Ear Sunfish	Fillet	Grab	6		
Spring 2010	4	ER_A	ERM0.9	2010	Red Ear Sunfish	Fillet	Grab	5		
Spring 2010	4	CR_R	CRM8.0	2010	Red Ear Sunfish	Fillet	Grab	6		
Spring 2010	4	CR_A	CRM1.5	2010	Red Ear Sunfish	Fillet	Grab	6		
Spring 2010	4	Positive control	CRM25.0	2010	Red Ear Sunfish	Fillet	Grab	3		
Spring 2010	ALS	ER_R	ERM8.0	2010	Redear Sunfish	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_R	LERM2.0	2010	Redear Sunfish	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_B	ERM3.0	2010	Redear Sunfish	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_A	ERM0.9	2010	Redear Sunfish	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_R	CRM8.0	2010	Redear Sunfish	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_A	CRM1.5	2010	Redear Sunfish	Liver	Grab - ALS	2		
Spring 2010	ALS	Positive Control	CRM25.0	2010	Redear Sunfish	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_R	ERM8.0	2010	Redear Sunfish	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_R	LERM2.0	2010	Redear Sunfish	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_B	ERM3.0	2010	Redear Sunfish	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_A	ERM0.9	2010	Redear Sunfish	Ovary	Grab - ALS	5		
Spring 2010	ALS	CR_R	CRM8.0	2010	Redear Sunfish	Ovary	Grab - ALS	4		
Spring 2010	ALS	CR_A	CRM1.5	2010	Redear Sunfish	Ovary	Grab - ALS	5		
Spring 2010	ALS	Positive Control	CRM25.0	2010	Redear Sunfish	Ovary	Grab - ALS	3		
Spring 2010	4	ER_R	ERM8.0	2010	White Crappie	Fillet	Grab	3		
Spring 2010	4	ER_R	LERM2.0	2010	White Crappie	Fillet	Grab	6		
Spring 2010	4	ER_B	ERM3.0	2010	White Crappie	Fillet	Grab	6		
Spring 2010	4	ER_A	ERM0.9	2010	White Crappie	Fillet	Grab	6		
Spring 2010	4	CR_R	CRM8.0	2010	White Crappie	Fillet	Grab	6		
Spring 2010	4	CR_A	CRM1.5	2010	White Crappie	Fillet	Grab	6		
Spring 2010	ALS	ER_R	ERM8.0	2010	White Crappie	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_R	LERM2.0	2010	White Crappie	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_B	ERM3.0	2010	White Crappie	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_A	ERM0.9	2010	White Crappie	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_R	CRM8.0	2010	White Crappie	Liver	Grab - ALS	3		
Spring 2010	ALS	CR_A	CRM1.5	2010	White Crappie	Liver	Grab - ALS	3		
Spring 2010	ALS	ER_R	ERM8.0	2010	White Crappie	Ovary	Grab - ALS	3		
Spring 2010	ALS	ER_R	LERM2.0	2010	White Crappie	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_B	ERM3.0	2010	White Crappie	Ovary	Grab - ALS	5		
Spring 2010	ALS	ER_A	ERM0.9	2010	White Crappie	Ovary	Grab - ALS	5		
Spring 2010	ALS	CR_R	CRM8.0	2010	White Crappie	Ovary	Grab - ALS	4		
Spring 2010	ALS	CR_A	CRM1.5	2010	White Crappie	Ovary	Grab - ALS	5		
Fall 2010	5	ER_C	ERM4.5	2011	Bluegill	Carcass	Grab	5		
Fall 2010	5	CR_B	CRM3.5	2010	Bluegill	Carcass	Grab	4		
Fall 2010	5	ER_R	ERM8.0	2010	Bluegill	Fillet	Grab	6		
Fall 2010	5	ER_R	LERM2.0	2010	Bluegill	Fillet	Grab	6		
Fall 2010	5	ER_C	ERM4.5	2011	Bluegill	Fillet	Grab	5		
Fall 2010	5	ER_B	ERM3.0	2010	Bluegill	Fillet	Grab	6		
Fall 2010	5	ER_A	ERM0.9	2010	Bluegill	Fillet	Grab	6		
Fall 2010	5	CR_R	CRM8.0	2010	Bluegill	Fillet	Grab	6		
Fall 2010	5	CR_B	CRM3.5	2010	Bluegill	Fillet	Grab	7		
Fall 2010	5	CR_A	CRM1.5	2010	Bluegill	Fillet	Grab	6		
Fall 2010	5	ER_C	ERM4.5	2010	Channel Catfish	Carcass	Grab	6		
Fall 2010	5	CR_B	CRM3.5	2010	Channel Catfish	Carcass	Grab	5		
Fall 2010	5	ER_R	ERM8.0	2010	Channel Catfish	Fillet	Composite		1	1

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Tennessee Valley Authority **Kingston, Tennessee**

Event		Reach	Location	Year	Species	Aliquot Type	Sample Method	Inorganic Sample Count	PCB Sample Count	Pesticide Sample Count
Fall 2010	5	ER_R	ERM8.0	2010	Channel Catfish	Fillet	Grab	6		
Fall 2010	5	ER_R	LERM2.0	2010	Channel Catfish	Fillet	Grab	6		
Fall 2010	5	ER_C	ERM4.5	2010	Channel Catfish	Fillet	Grab	6		
Fall 2010	5	ER_B	ERM3.0	2010	Channel Catfish	Fillet	Composite		1	1
Fall 2010	5	ER_B	ERM3.0	2010	Channel Catfish	Fillet	Grab	6		
Fall 2010	5	ER_A	ERM0.9	2010	Channel Catfish	Fillet	Composite		1	1
Fall 2010	5	ER_A	ERM0.9	2010	Channel Catfish	Fillet	Grab	6		
Fall 2010	5	CR_R	CRM8.0	2010	Channel Catfish	Fillet	Composite		1	1
Fall 2010	5	CR_R	CRM8.0	2010	Channel Catfish	Fillet	Grab	6		
Fall 2010	5	CR_B	CRM3.5	2010	Channel Catfish	Fillet	Grab	5		
Fall 2010	5	CR_A	CRM1.5	2010	Channel Catfish	Fillet	Composite		1	1
Fall 2010	5	CR_A	CRM1.5	2010	Channel Catfish	Fillet	Grab	6		
Fall 2010	5	ER_R	ERM8.0	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Fall 2010	5	ER_C	ERM4.5	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Fall 2010	5	ER_C	ERM4.5	2011	Gizzard Shad	Gut and Gut Content	Composite	2		
Fall 2010	5	ER_B	ERM2.5	2010	Gizzard Shad	Gut and Gut Content	Composite	3		
Fall 2010	5	ER_A	ERM0.9	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Fall 2010	5	CR_R	CRM8.0	2010	Gizzard Shad	Gut and Gut Content	Composite	6		
Fall 2010	5	CR_B	CRM3.5	2010	Gizzard Shad	Gut and Gut Content	Composite	6		
Fall 2010	5	CR_A	CRM1.5	2010	Gizzard Shad	Gut and Gut Content	Composite	6		
Fall 2010	5	ER_C	ERM4.5	2010	Gizzard Shad	Whole Body	Composite	3		
Fall 2010	5	ER_B	ERM2.5	2010	Gizzard Shad	Whole Body	Composite	3		
Fall 2010	5	CR_R	CRM8.0	2010	Gizzard Shad	Whole Body	Composite	3		
Fall 2010	5	CR_B	CRM3.5	2010	Gizzard Shad	Whole Body	Composite	3		
Fall 2010	5	CR_A	CRM1.5	2010	Gizzard Shad	Whole Body	Composite	3		
Fall 2010	5	ER_R	ERM8.0	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Fall 2010	5	ER_C	ERM4.5	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Fall 2010	5	ER_C	ERM4.5	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	2		
Fall 2010	5	ER_B	ERM2.5	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Fall 2010	5	ER_A	ERM0.9	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Fall 2010	5	CR_R	CRM8.0	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	6		
Fall 2010	5	CR_B	CRM3.5	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	6		
Fall 2010	5	CR_A	CRM1.5	2010	Gizzard Shad	Whole Body (minus gut content)	Composite	6		
Fall 2010	5	ER_C	ERM4.5	2011	Largemouth Bass	Carcass	Grab	6		
Fall 2010	5	ER_R	ERM8.0	2010	Largemouth Bass	Fillet	Composite		1	1
Fall 2010	5	ER_R	ERM8.0	2010	Largemouth Bass	Fillet	Grab	6		
Fall 2010	5	ER_R	LERM2.0	2010	Largemouth Bass	Fillet	Grab	6		
Fall 2010	5	ER_C	ERM4.5	2011	Largemouth Bass	Fillet	Grab	6		
Fall 2010	5	ER_B	ERM3.0	2010	Largemouth Bass	Fillet	Composite		1	1
Fall 2010	5	ER_B	ERM3.0	2010	Largemouth Bass	Fillet	Grab	7		
Fall 2010	5	ER_A	ERM0.9	2010	Largemouth Bass	Fillet	Composite		1	1
Fall 2010	5	ER_A	ERM0.9	2010	Largemouth Bass	Fillet	Grab	6		
Fall 2010	5	CR_R	CRM8.0	2010	Largemouth Bass	Fillet	Composite		1	1
Fall 2010	5	CR_R	CRM8.0	2010	Largemouth Bass	Fillet	Grab	6		
Fall 2010	5	CR_B	CRM3.5	2010	Largemouth Bass	Fillet	Grab	6		
Fall 2010	5	CR_A	CRM1.5	2010	Largemouth Bass	Fillet	Composite		1	1
Fall 2010	5	CR_A	CRM1.5	2010	Largemouth Bass	Fillet	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Bluegill	Fillet	Grab	5		
Spring 2011	7	ER_R	LERM2.0	2011	Bluegill	Fillet	Grab	7		
Spring 2011	7	ER_B	ERM3.0	2011	Bluegill	Fillet	Grab	6		
Spring 2011	7	ER_A	ERM0.9	2011	Bluegill	Fillet	Grab	6		
Spring 2011	7	CR_R	CRM8.0	2011	Bluegill	Fillet	Grab	6		
Spring 2011	7	CR_A	CRM1.5	2011	Bluegill	Fillet	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Bluegill	Liver	Grab	4		
Spring 2011	7	ER_R	LERM2.0	2011	Bluegill	Liver	Grab	3		
Spring 2011	7	ER_B	ERM3.0	2011	Bluegill	Liver	Grab	3		
Spring 2011	7	ER_A	ERM0.9	2011	Bluegill	Liver	Grab	5		

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Tennessee Valley Authority Kingston, Tennessee

Event		Reach	Location	Year	Species	Aliquot Type	Sample Method	Inorganic Sample Count	PCB Sample Count	Pesticide Sample Count
Spring 2011	7	ER_R	ERM8.0	2011	Bluegill	Ovary	Grab	5		
Spring 2011	7	ER_R	LERM2.0	2011	Bluegill	Ovary	Grab	6		
Spring 2011	7	ER_B	ERM3.0	2011	Bluegill	Ovary	Grab	6		
Spring 2011	7	ER_A	ERM0.9	2011	Bluegill	Ovary	Grab	6		
Spring 2011	7	CR_R	CRM8.0	2011	Bluegill	Ovary	Grab	6		
Spring 2011	7	CR_A	CRM1.5	2011	Bluegill	Ovary	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	ER_R	LERM1.0	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	ER_C	ERM4.5	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	ER_B	ERM2.5	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	ER_A	ERM0.9	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	CR_R	CRM8.0	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	CR_B	CRM3.5	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	CR_A	CRM1.5	2011	Gizzard Shad	Gut and Gut Content	Composite	3		
Spring 2011	7	ER_R	ERM8.0	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	ER_R	LERM1.0	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	ER_C	ERM4.5	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	ER_B	ERM2.5	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	ER_A	ERM0.9	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	CR_R	CRM8.0	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	CR_B	CRM3.5	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	CR_A	CRM1.5	2011	Gizzard Shad	Whole Body	Composite	3		
Spring 2011	7	ER_R	ERM8.0	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	ER_R	LERM1.0	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	ER_C	ERM4.5	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	ER_B	ERM2.5	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	ER_A	ERM0.9	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	CR_R	CRM8.0	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	CR_B	CRM3.5	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	CR_A	CRM1.5	2011	Gizzard Shad	Whole Body (minus gut content)	Composite	3		
Spring 2011	7	ER_R	ERM8.0	2011	Largemouth Bass	Fillet	Grab	7		
Spring 2011	7	ER_R	LERM2.0	2011	Largemouth Bass	Fillet	Grab	7		
Spring 2011	7	ER_B	ERM3.0	2011	Largemouth Bass	Fillet	Grab	6		
Spring 2011	7	ER_A	ERM0.9	2011	Largemouth Bass	Fillet	Grab	6		
Spring 2011	7	CR_R	CRM8.0	2011	Largemouth Bass	Fillet	Grab	6		
Spring 2011	7	CR_A	CRM1.5	2011	Largemouth Bass	Fillet	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Largemouth Bass	Liver	Grab	6		
Spring 2011	7	ER_R	LERM2.0	2011	Largemouth Bass	Liver	Grab	6		
Spring 2011	7	ER_B	ERM3.0	2011	Largemouth Bass	Liver	Grab	6		
Spring 2011	7	ER_A	ERM0.9	2011	Largemouth Bass	Liver	Grab	6		
Spring 2011	7	CR_R	CRM8.0	2011	Largemouth Bass	Liver	Grab	6		
Spring 2011	7	CR_A	CRM1.5	2011	Largemouth Bass	Liver	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Largemouth Bass	Ovary	Grab	6		
Spring 2011	7	ER_R	LERM2.0	2011	Largemouth Bass	Ovary	Grab	6		
Spring 2011	7	ER_B	ERM3.0	2011	Largemouth Bass	Ovary	Grab	6		
Spring 2011	7	ER_A	ERM0.9	2011	Largemouth Bass	Ovary	Grab	6		
Spring 2011	7	CR_R	CRM8.0	2011	Largemouth Bass	Ovary	Grab	6		
Spring 2011	7	CR_A	CRM1.5	2011	Largemouth Bass	Ovary	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Red Ear Sunfish	Fillet	Grab	7		
Spring 2011	7	ER_R	LERM2.0	2011	Red Ear Sunfish	Fillet	Grab	7		
Spring 2011	7	ER_B	ERM3.0	2011	Red Ear Sunfish	Fillet	Grab	6		
Spring 2011	7	ER_A	ERM0.9	2011	Red Ear Sunfish	Fillet	Grab	6		
Spring 2011	7	CR_R	CRM8.0	2011	Red Ear Sunfish	Fillet	Grab	6		
Spring 2011	7	CR_A	CRM1.5	2011	Red Ear Sunfish	Fillet	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Red Ear Sunfish	Liver	Grab	7		
Spring 2011	7	ER_R	LERM2.0	2011	Red Ear Sunfish	Liver	Grab	5		
Spring 2011	7	ER_B	ERM3.0	2011	Red Ear Sunfish	Liver	Grab	6		

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Spring 2011	7	ER_A	ERM0.9	2011	Red Ear Sunfish	Liver	Grab	6		
Spring 2011	7	CR_R	CRM8.0	2011	Red Ear Sunfish	Liver	Grab	6		
Spring 2011	7	CR_A	CRM1.5	2011	Red Ear Sunfish	Liver	Grab	6		
Spring 2011	7	ER_R	ERM8.0	2011	Red Ear Sunfish	Ovary	Grab	16		
Spring 2011	7	ER_R	LERM2.0	2011	Red Ear Sunfish	Ovary	Grab	6		
Spring 2011	7	ER_B	ERM3.0	2011	Red Ear Sunfish	Ovary	Grab	17		
Spring 2011	7	ER_A	ERM0.9	2011	Red Ear Sunfish	Ovary	Grab	14		
Spring 2011	7	CR_R	CRM8.0	2011	Red Ear Sunfish	Ovary	Grab	13		
Spring 2011	7	CR_A	CRM1.5	2011	Red Ear Sunfish	Ovary	Grab	16		
Spring 2011	7	ER_R	ERM8.0	2011	Red Ear Sunfish	Whole Body (minus GI tract and	Grab	9		
Spring 2011	7	ER_B	ERM3.0	2011	Red Ear Sunfish	Whole Body (minus GI tract and	Grab	14		
Spring 2011	7	ER_A	ERM0.9	2011	Red Ear Sunfish	Whole Body (minus GI tract and	Grab	8		
Spring 2011	7	CR_R	CRM8.0	2011	Red Ear Sunfish	Whole Body (minus GI tract and	Grab	8		
Spring 2011	7	CR_A	CRM1.5	2011	Red Ear Sunfish	Whole Body (minus GI tract and	Grab	10		
TDEC Special Request I	6	ER_B	ERM3.0	2009	Largemouth Bass	Whole Body	Grab	2		
TDEC Special Request I	6	ER_B	ERM3.0	2009	Red Ear Sunfish	Whole Body	Grab	2		

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Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Aluminum	Inorganic	ER_R	Spring 2010	1	/	12	mg/kg	4.14	-	4.14	12.0191	17.0535	
Bluegill	Aluminum	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		3.9561	0.1788	
Bluegill	Aluminum	Inorganic	ER_C	Spring 2010	4	/	6	mg/kg	4.50	-	7.27	5.4765	1.4867	
Bluegill	Aluminum	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		3.8000	0.1871	
Bluegill	Aluminum	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		3.9307	0.2014	
Bluegill	Aluminum	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		3.9167	0.1722	
Bluegill	Aluminum	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		4.0310	0.1082	
Bluegill	Aluminum	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		4.0167	0.2041	
Bluegill	Aluminum	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		3.9931	0.1439	
Bluegill	Aluminum	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		3.8797	0.1265	
Bluegill	Aluminum	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		3.8429	0.1618	
Bluegill	Aluminum	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		4.0390	0.0430	
Bluegill	Aluminum	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		3.9753	0.1460	
Bluegill	Antimony	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0427	0.0598	
Bluegill	Antimony	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0143	0.0007	
Bluegill	Antimony	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0144	0.0004	
Bluegill	Antimony	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0138	0.0008	
Bluegill	Antimony	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0142	0.0007	
Bluegill	Antimony	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0006	
Bluegill	Antimony	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0146	0.0003	
Bluegill	Antimony	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0147	0.0008	
Bluegill	Antimony	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0145	0.0005	
Bluegill	Antimony	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0004	
Bluegill	Antimony	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0139	0.0008	
Bluegill	Antimony	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0139	0.0009	
Bluegill	Antimony	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0146	0.0002	
Bluegill	Antimony	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0144	0.0005	
Bluegill	Arsenic	Inorganic	ER_R	Spring 2010	7	/	12	mg/kg	0.03	-	0.07	0.0931	0.1139	
Bluegill	Arsenic	Inorganic	ER_R	Fall 2010	4	/	12	mg/kg	0.01	-	0.04	0.0253	0.0091	
Bluegill	Arsenic	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.06	-	0.11	0.0840	0.0213	p < 0.05
Bluegill	Arsenic	Inorganic	ER_C	Fall 2010	3	/	5	mg/kg	0.03	-	0.04	0.0326	0.0060	p < 0.05
Bluegill	Arsenic	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.06	-	0.09	0.0725	0.0127	p < 0.05
Bluegill	Arsenic	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.05	-	0.14	0.0910	0.0356	p < 0.05
Bluegill	Arsenic	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.04	-	0.15	0.0822	0.0432	p < 0.05
Bluegill	Arsenic	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.05	-	0.24	0.1180	0.0726	p < 0.05
Bluegill	Arsenic	Inorganic	CR_R	Spring 2010	11	/	11	mg/kg	0.03	-	0.16	0.0856	0.0423	
Bluegill	Arsenic	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.04	-	0.11	0.0788	0.0260	
Bluegill	Arsenic	Inorganic	CR_B	Spring 2010	4	/	6	mg/kg	0.14	-	0.23	0.1590	0.0388	p < 0.05
Bluegill	Arsenic	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	0.09	-	0.29	0.1416	0.0698	p < 0.05
Bluegill	Arsenic	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.05	-	0.32	0.1606	0.1008	
Bluegill	Arsenic	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.03	-	0.11	0.0695	0.0365	
Bluegill	Barium	Inorganic	ER_R	Spring 2010	2	/	12	mg/kg	0.07	-	0.12	0.1886	0.1801	
Bluegill	Barium	Inorganic	ER_R	Fall 2010	7	/	12	mg/kg	0.02	-	0.48	0.1060	0.1391	
Bluegill	Barium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.05	-	0.27	0.1606	0.0766	p < 0.05
Bluegill	Barium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.08	-	0.30	0.1964	0.0890	p < 0.05
Bluegill	Barium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.05	-	0.36	0.1266	0.1198	
Bluegill	Barium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.04	-	0.10	0.0720	0.0229	
Bluegill	Barium	Inorganic	ER_A	Spring 2010	2	/	5	mg/kg	0.06	-	0.11	0.0607	0.0259	
Bluegill	Barium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.05	-	0.24	0.1310	0.0748	
Bluegill	Barium	Inorganic	CR_R	Spring 2010	5	/	11	mg/kg	0.06	-	0.45	0.1311	0.1422	
Bluegill	Barium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.05	-	0.14	0.0832	0.0315	
Bluegill	Barium	Inorganic	CR_B	Spring 2010	5	/	5	mg/kg	0.05	-	0.18	0.1188	0.0589	
Bluegill	Barium	Inorganic	CR_B	Fall 2010	6	/	7	mg/kg	0.06	-	0.68	0.2009	0.2200	
Bluegill	Barium	Inorganic	CR_A	Spring 2010	4	/	6	mg/kg	0.05	-	0.06	0.0514	0.0049	
Bluegill	Barium	Inorganic	CR_A	Fall 2010	3	/	6	mg/kg	0.05	-	0.25	0.0805	0.0811	
Bluegill	Beryllium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0951	0.1222	
Bluegill	Beryllium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0293	0.0012	
Bluegill	Beryllium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0290	0.0013	

Notes:

CR_A - Clinch Reach A
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CR_R - Clinch River Reference Reach
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PCB - polychlorinated biphenyl
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ARCADIS

Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Beryllium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0512	0.0132	
Bluegill	Beryllium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0286	0.0014	
Bluegill	Beryllium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0287	0.0010	
Bluegill	Beryllium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0479	0.0160	
Bluegill	Beryllium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0295	0.0012	
Bluegill	Beryllium	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0298	0.0011	
Bluegill	Beryllium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0291	0.0008	
Bluegill	Beryllium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0278	0.0014	
Bluegill	Beryllium	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0328	0.0128	
Bluegill	Beryllium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0298	0.0008	
Bluegill	Beryllium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0594	0.0019	
Bluegill	Boron	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		1.2370	1.7674	
Bluegill	Boron	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.4106	0.0186	
Bluegill	Boron	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.4117	0.0107	
Bluegill	Boron	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.3980	0.0148	
Bluegill	Boron	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.4065	0.0219	
Bluegill	Boron	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.4067	0.0163	
Bluegill	Boron	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.4182	0.0059	
Bluegill	Boron	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.4167	0.0186	
Bluegill	Boron	Inorganic	CR_R	Spring 2010	1	/	11	mg/kg	0.48	-	0.48	0.4198	0.0241	
Bluegill	Boron	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.4019	0.0152	
Bluegill	Boron	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.3993	0.0203	
Bluegill	Boron	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.3971	0.0206	
Bluegill	Boron	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.4165	0.0075	
Bluegill	Boron	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.4095	0.0147	
Bluegill	Cadmium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0246	0.0318	
Bluegill	Cadmium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0075	0.0003	
Bluegill	Cadmium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0075	0.0002	
Bluegill	Cadmium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0073	0.0003	
Bluegill	Cadmium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0075	0.0004	
Bluegill	Cadmium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0075	0.0003	
Bluegill	Cadmium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0093	0.0037	
Bluegill	Cadmium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0076	0.0004	
Bluegill	Cadmium	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0098	0.0038	
Bluegill	Cadmium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0074	0.0003	
Bluegill	Cadmium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0073	0.0004	
Bluegill	Cadmium	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0085	0.0033	
Bluegill	Cadmium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0116	0.0044	
Bluegill	Cadmium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0076	0.0002	
Bluegill	Chromium	Inorganic	ER_R	Spring 2010	1	/	12	mg/kg	0.15	-	0.15	0.3809	0.5383	
Bluegill	Chromium	Inorganic	ER_R	Fall 2010	2	/	12	mg/kg	0.13	-	0.67	0.1704	0.1575	
Bluegill	Chromium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.1260	0.0033	
Bluegill	Chromium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.1220	0.0045	
Bluegill	Chromium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.1248	0.0066	
Bluegill	Chromium	Inorganic	ER_B	Fall 2010	1	/	6	mg/kg	0.16	-	0.16	0.1317	0.0147	
Bluegill	Chromium	Inorganic	ER_A	Spring 2010	1	/	5	mg/kg	0.25	-	0.25	0.1518	0.0533	
Bluegill	Chromium	Inorganic	ER_A	Fall 2010	2	/	6	mg/kg	0.18	-	0.27	0.1600	0.0580	
Bluegill	Chromium	Inorganic	CR_R	Spring 2010	1	/	11	mg/kg	0.32	-	0.32	0.1439	0.0573	
Bluegill	Chromium	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.24	-	0.24	0.1422	0.0492	
Bluegill	Chromium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.1220	0.0069	
Bluegill	Chromium	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.1229	0.0049	
Bluegill	Chromium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.1280	0.0016	
Bluegill	Chromium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.1259	0.0045	
Bluegill	Cobalt	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0419	0.0594	
Bluegill	Cobalt	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0140	0.0007	
Bluegill	Cobalt	Inorganic	ER_C	Spring 2010	5	/	6	mg/kg	0.02	-	0.03	0.0191	0.0049	
Bluegill	Cobalt	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0132	0.0004	
Bluegill	Cobalt	Inorganic	ER_B	Spring 2010	4	/	6	mg/kg	0.01	-	0.02	0.0155	0.0028	

Notes:

CR_A - Clinch Reach A
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PCB - polychlorinated biphenyl
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Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Cobalt	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0006	
Bluegill	Cobalt	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0142	0.0003	
Bluegill	Cobalt	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0138	0.0004	
Bluegill	Cobalt	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0140	0.0005	
Bluegill	Cobalt	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0137	0.0005	
Bluegill	Cobalt	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0136	0.0008	
Bluegill	Cobalt	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0136	0.0008	
Bluegill	Cobalt	Inorganic	CR_A	Spring 2010	1	/	6	mg/kg	0.02	-	0.02	0.0144	0.0005	
Bluegill	Cobalt	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0005	
Bluegill	Copper	Inorganic	ER_R	Spring 2010	9	/	12	mg/kg	0.18	-	0.47	0.5411	0.5688	
Bluegill	Copper	Inorganic	ER_R	Fall 2010	11	/	12	mg/kg	0.04	-	0.35	0.1644	0.1119	
Bluegill	Copper	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.25	-	0.38	0.3195	0.0556	0.05 < p < 0.1
Bluegill	Copper	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.18	-	0.34	0.2580	0.0576	0.05 < p < 0.1
Bluegill	Copper	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.18	-	0.53	0.3322	0.1157	p < 0.05
Bluegill	Copper	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.22	-	0.41	0.2750	0.0836	p < 0.05
Bluegill	Copper	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.24	-	0.40	0.3030	0.0657	p < 0.05
Bluegill	Copper	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.31	-	0.94	0.5050	0.2275	p < 0.05
Bluegill	Copper	Inorganic	CR_R	Spring 2010	10	/	11	mg/kg	0.15	-	0.41	0.2464	0.0971	
Bluegill	Copper	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.08	-	0.26	0.2043	0.0634	
Bluegill	Copper	Inorganic	CR_B	Spring 2010	5	/	6	mg/kg	0.16	-	0.24	0.1917	0.0373	
Bluegill	Copper	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	0.17	-	0.31	0.2471	0.0457	
Bluegill	Copper	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.22	-	0.42	0.2851	0.0760	
Bluegill	Copper	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.20	-	0.35	0.2686	0.0475	
Bluegill	Lead	Inorganic	ER_R	Spring 2010	1	/	12	mg/kg	0.52	-	0.52	0.0930	0.1487	
Bluegill	Lead	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0276	0.0013	
Bluegill	Lead	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.1624	0.1130	
Bluegill	Lead	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0266	0.0011	
Bluegill	Lead	Inorganic	ER_B	Spring 2010	2	/	6	mg/kg	0.03	-	0.09	0.0374	0.0243	
Bluegill	Lead	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0273	0.0014	
Bluegill	Lead	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0280	0.0012	
Bluegill	Lead	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.08	-	0.08	0.0372	0.0230	
Bluegill	Lead	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0279	0.0011	
Bluegill	Lead	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.04	-	0.04	0.0298	0.0069	
Bluegill	Lead	Inorganic	CR_B	Spring 2010	1	/	6	mg/kg	0.03	-	0.03	0.0267	0.0017	
Bluegill	Lead	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0269	0.0012	
Bluegill	Lead	Inorganic	CR_A	Spring 2010	1	/	6	mg/kg	0.07	-	0.07	0.0346	0.0149	
Bluegill	Lead	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0275	0.0013	
Bluegill	Manganese	Inorganic	ER_R	Spring 2010	9	/	12	mg/kg	0.29	-	2.61	1.1698	0.8613	
Bluegill	Manganese	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.05	-	7.10	1.1701	2.1195	
Bluegill	Manganese	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.58	-	2.23	1.8045	0.6159	p < 0.05
Bluegill	Manganese	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.53	-	4.20	2.0660	1.3729	p < 0.05
Bluegill	Manganese	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.26	-	2.17	0.7312	0.7311	
Bluegill	Manganese	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.30	-	0.85	0.5883	0.2244	
Bluegill	Manganese	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.24	-	1.10	0.4531	0.3662	
Bluegill	Manganese	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.24	-	1.10	0.5450	0.2974	
Bluegill	Manganese	Inorganic	CR_R	Spring 2010	11	/	11	mg/kg	0.19	-	8.77	1.7451	2.7493	
Bluegill	Manganese	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.30	-	0.96	0.5550	0.2212	
Bluegill	Manganese	Inorganic	CR_B	Spring 2010	5	/	6	mg/kg	0.31	-	1.71	0.9129	0.7032	
Bluegill	Manganese	Inorganic	CR_B	Fall 2010	6	/	7	mg/kg	0.24	-	3.40	1.3357	1.2866	
Bluegill	Manganese	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.18	-	0.39	0.2926	0.0721	
Bluegill	Manganese	Inorganic	CR_A	Fall 2010	5	/	6	mg/kg	0.20	-	1.58	0.4710	0.5500	
Bluegill	Mercury	Inorganic	ER_R	Spring 2010	10	/	12	mg/kg	0.03	-	0.09	0.0688	0.0366	
Bluegill	Mercury	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.00	-	0.12	0.0441	0.0443	
Bluegill	Mercury	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.03	-	0.05	0.0346	0.0092	
Bluegill	Mercury	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.03	-	0.07	0.0424	0.0167	
Bluegill	Mercury	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.05	-	0.08	0.0578	0.0102	
Bluegill	Mercury	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.03	-	0.07	0.0517	0.0138	
Bluegill	Mercury	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.05	-	0.14	0.0670	0.0397	

Notes:

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Tennessee Valley Authority Kingston, Tennessee

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Bluegill	Mercury	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.03	-	0.07	0.0508	0.0140	
Bluegill	Mercury	Inorganic	CR_R	Spring 2010	11	/	11	mg/kg	0.05	-	0.14	0.0796	0.0254	
Bluegill	Mercury	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.04	-	0.06	0.0503	0.0059	
Bluegill	Mercury	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.05	-	0.06	0.0502	0.0035	
Bluegill	Mercury	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	0.04	-	0.07	0.0540	0.0082	
Bluegill	Mercury	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.04	-	0.08	0.0550	0.0168	
Bluegill	Mercury	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.04	-	0.08	0.0583	0.0140	
Bluegill	Molybdenum	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.1042	0.1479	
Bluegill	Molybdenum	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0348	0.0013	
Bluegill	Molybdenum	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0351	0.0013	
Bluegill	Molybdenum	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0338	0.0015	
Bluegill	Molybdenum	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0346	0.0021	
Bluegill	Molybdenum	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0345	0.0014	
Bluegill	Molybdenum	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0353	0.0009	
Bluegill	Molybdenum	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0353	0.0016	
Bluegill	Molybdenum	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0352	0.0015	
Bluegill	Molybdenum	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0338	0.0018	
Bluegill	Molybdenum	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0338	0.0019	
Bluegill	Molybdenum	Inorganic	CR_B	Fall 2010	2	/	7	mg/kg	0.05	-	0.05	0.0371	0.0062	
Bluegill	Molybdenum	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0354	0.0007	
Bluegill	Molybdenum	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0349	0.0014	
Bluegill	Nickel	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.2905	0.4139	
Bluegill	Nickel	Inorganic	ER_R	Fall 2010	1	/	12	mg/kg	0.35	-	0.35	0.1170	0.0735	
Bluegill	Nickel	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0969	0.0030	
Bluegill	Nickel	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0932	0.0038	
Bluegill	Nickel	Inorganic	ER_B	Spring 2010	1	/	6	mg/kg	0.22	-	0.22	0.1154	0.0508	
Bluegill	Nickel	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0957	0.0038	
Bluegill	Nickel	Inorganic	ER_A	Spring 2010	1	/	5	mg/kg	0.11	-	0.11	0.1017	0.0073	
Bluegill	Nickel	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.16	-	0.16	0.1078	0.0259	
Bluegill	Nickel	Inorganic	CR_R	Spring 2010	1	/	11	mg/kg	0.14	-	0.14	0.1266	0.0839	
Bluegill	Nickel	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0948	0.0037	
Bluegill	Nickel	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0938	0.0058	
Bluegill	Nickel	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0937	0.0040	
Bluegill	Nickel	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0986	0.0013	
Bluegill	Nickel	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0974	0.0036	
Bluegill	Selenium	Inorganic	ER_R	Spring 2010	10	/	12	mg/kg	0.40	-	1.00	0.5954	0.2164	
Bluegill	Selenium	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.07	-	0.49	0.2676	0.1743	
Bluegill	Selenium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.45	-	0.68	0.5791	0.0983	p < 0.05
Bluegill	Selenium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.43	-	0.64	0.5500	0.0768	p < 0.05
Bluegill	Selenium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.63	-	1.13	0.8481	0.1682	p < 0.05
Bluegill	Selenium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.56	-	0.82	0.6883	0.1137	p < 0.05
Bluegill	Selenium	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.55	-	0.89	0.7342	0.1478	p < 0.05
Bluegill	Selenium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.72	-	1.10	0.8800	0.1273	p < 0.05
Bluegill	Selenium	Inorganic	CR_R	Spring 2010	11	/	11	mg/kg	0.50	-	0.63	0.5450	0.0446	
Bluegill	Selenium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.49	-	0.76	0.6291	0.0958	
Bluegill	Selenium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.64	-	0.90	0.7771	0.1059	p < 0.05
Bluegill	Selenium	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	0.51	-	1.30	1.0600	0.2778	p < 0.05
Bluegill	Selenium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.64	-	1.06	0.8095	0.1413	p < 0.05
Bluegill	Selenium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	1.09	-	1.53	1.3132	0.1725	p < 0.05
Bluegill	Silver	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0087	0.0125	
Bluegill	Silver	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0029	0.0001	
Bluegill	Silver	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Bluegill	Silver	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0028	0.0001	
Bluegill	Silver	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Bluegill	Silver	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0001	
Bluegill	Silver	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0057	0.0038	
Bluegill	Silver	Inorganic	ER_A	Fall 2010	5	/	6	mg/kg	0.01	-	0.03	0.0147	0.0075	
Bluegill	Silver	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0029	0.0001	

Notes:

CR_A - Clinch Reach A
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ER_A - Emory Reach A
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PCB - polychlorinated biphenyl
RL - reporting limit

ARCADIS

Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Silver	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0027	0.0001	
Bluegill	Silver	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0003	
Bluegill	Silver	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0028	0.0001	
Bluegill	Silver	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Bluegill	Silver	Inorganic	CR_A	Fall 2010	1	/	6	mg/kg	0.00	-	0.00	0.0032	0.0007	
Bluegill	Strontium	Inorganic	ER_R	Spring 2010	9	/	12	mg/kg	0.17	-	1.24	0.5507	0.3491	
Bluegill	Strontium	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.01	-	2.80	0.6410	1.0122	
Bluegill	Strontium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.14	-	1.31	0.6961	0.4514	p < 0.05
Bluegill	Strontium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.74	-	3.30	2.1080	1.0735	p < 0.05
Bluegill	Strontium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.39	-	5.60	1.7118	2.0299	0.05 < p < 0.1
Bluegill	Strontium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.15	-	0.88	0.5500	0.3084	0.05 < p < 0.1
Bluegill	Strontium	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.08	-	0.72	0.3487	0.2783	
Bluegill	Strontium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.24	-	2.00	0.9883	0.5781	
Bluegill	Strontium	Inorganic	CR_R	Spring 2010	11	/	11	mg/kg	0.08	-	5.82	1.4672	2.1258	
Bluegill	Strontium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.22	-	0.96	0.5824	0.2875	
Bluegill	Strontium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.18	-	2.95	1.5837	1.2324	
Bluegill	Strontium	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	0.13	-	14.30	3.1371	4.9737	
Bluegill	Strontium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.18	-	0.41	0.2795	0.1098	
Bluegill	Strontium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.15	-	2.73	0.6417	1.0237	
Bluegill	Thallium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0412	0.0587	
Bluegill	Thallium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0136	0.0007	
Bluegill	Thallium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0137	0.0003	
Bluegill	Thallium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0132	0.0004	
Bluegill	Thallium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0172	0.0046	
Bluegill	Thallium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0138	0.0008	
Bluegill	Thallium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0198	0.0128	
Bluegill	Thallium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0138	0.0004	
Bluegill	Thallium	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0138	0.0005	
Bluegill	Thallium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0134	0.0005	
Bluegill	Thallium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0138	0.0018	
Bluegill	Thallium	Inorganic	CR_B	Fall 2010	0	/	7	mg/kg		-		0.0143	0.0026	
Bluegill	Thallium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0246	0.0050	
Bluegill	Thallium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0137	0.0005	
Bluegill	Vanadium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.1478	0.1911	
Bluegill	Vanadium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0449	0.0019	
Bluegill	Vanadium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0452	0.0010	
Bluegill	Vanadium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0438	0.0015	
Bluegill	Vanadium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0451	0.0023	
Bluegill	Vanadium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0448	0.0017	
Bluegill	Vanadium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0553	0.0221	
Bluegill	Vanadium	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.06	-	0.06	0.0478	0.0058	
Bluegill	Vanadium	Inorganic	CR_R	Spring 2010	0	/	11	mg/kg		-		0.0455	0.0015	
Bluegill	Vanadium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0442	0.0015	
Bluegill	Vanadium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0437	0.0021	
Bluegill	Vanadium	Inorganic	CR_B	Fall 2010	2	/	7	mg/kg	0.07	-	0.07	0.0578	0.0205	
Bluegill	Vanadium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0548	0.0314	
Bluegill	Vanadium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0450	0.0015	
Bluegill	Zinc	Inorganic	ER_R	Spring 2010	10	/	12	mg/kg	10.30	-	18.43	14.6625	6.1044	
Bluegill	Zinc	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	1.44	-	19.20	10.8158	6.1735	
Bluegill	Zinc	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	10.09	-	18.36	14.0083	3.2677	
Bluegill	Zinc	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	9.00	-	15.70	12.0000	2.9707	
Bluegill	Zinc	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	9.33	-	14.97	11.6027	2.0353	
Bluegill	Zinc	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	11.40	-	15.80	13.5500	1.5123	
Bluegill	Zinc	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	11.28	-	21.66	15.9540	4.0658	p < 0.05
Bluegill	Zinc	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	12.70	-	15.30	14.1500	0.8550	p < 0.05
Bluegill	Zinc	Inorganic	CR_R	Spring 2010	11	/	11	mg/kg	8.95	-	20.64	15.3852	3.1658	
Bluegill	Zinc	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	11.07	-	18.61	14.1783	3.0652	
Bluegill	Zinc	Inorganic	CR_B	Spring 2010	4	/	6	mg/kg	13.21	-	14.46	12.7267	1.4194	

Notes:

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ARCADIS

Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Zinc	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	11.50	-	17.40	13.8286	1.9981	
Bluegill	Zinc	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	12.71	-	16.24	14.6017	1.3763	
Bluegill	Zinc	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	16.13	-	23.99	18.7733	3.3679	
Channel Catfish	alpha-Chlordane	Pesticides	ER_R	Spring 2010	2	/	2	ug/kg	4.10	-	9.20	6.6500	3.6062	
Channel Catfish	alpha-Chlordane	Pesticides	ER_R	Fall 2010	1	/	1	ug/kg	2.60	-	2.60	2.6000		
Channel Catfish	alpha-Chlordane	Pesticides	ER_C	Spring 2010	1	/	2	ug/kg	3.10	-	3.10	2.8000	0.4243	
Channel Catfish	alpha-Chlordane	Pesticides	ER_B	Spring 2010	1	/	2	ug/kg	4.90	-	4.90	3.7000	1.6971	
Channel Catfish	alpha-Chlordane	Pesticides	ER_B	Fall 2010	0	/	1	ug/kg		-		2.5000		
Channel Catfish	alpha-Chlordane	Pesticides	ER_A	Spring 2010	2	/	2	ug/kg	5.40	-	9.00	7.2000	2.5456	
Channel Catfish	alpha-Chlordane	Pesticides	ER_A	Fall 2010	1	/	1	ug/kg	2.60	-	2.60	2.6000		
Channel Catfish	alpha-Chlordane	Pesticides	CR_R	Spring 2010	2	/	2	ug/kg	10.40	-	14.00	12.2000	2.5456	
Channel Catfish	alpha-Chlordane	Pesticides	CR_R	Fall 2010	1	/	1	ug/kg	3.00	-	3.00	3.0000		
Channel Catfish	alpha-Chlordane	Pesticides	CR_B	Spring 2010	1	/	2	ug/kg	4.60	-	4.60	3.5500	1.4849	
Channel Catfish	alpha-Chlordane	Pesticides	CR_A	Spring 2010	2	/	2	ug/kg	7.30	-	8.90	8.1000	1.1314	
Channel Catfish	alpha-Chlordane	Pesticides	CR_A	Fall 2010	0	/	1	ug/kg		-		2.5000		
Channel Catfish	Aluminum	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		3.8453	0.1895	
Channel Catfish	Aluminum	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		3.8320	0.1607	
Channel Catfish	Aluminum	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		3.8887	0.2076	
Channel Catfish	Aluminum	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		3.8333	0.1633	
Channel Catfish	Aluminum	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		3.9190	0.0939	
Channel Catfish	Aluminum	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		3.8000	0.1414	
Channel Catfish	Aluminum	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		3.8348	0.1872	
Channel Catfish	Aluminum	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		3.8395	0.2304	
Channel Catfish	Aluminum	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		3.9317	0.1119	
Channel Catfish	Aluminum	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		3.8770	0.1847	
Channel Catfish	Aluminum	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		3.7243	0.2183	
Channel Catfish	Aluminum	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		3.9200	0.2168	
Channel Catfish	Aluminum	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		3.9362	0.1266	
Channel Catfish	Aluminum	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		3.8550	0.2346	
Channel Catfish	Antimony	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0139	0.0007	
Channel Catfish	Antimony	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0137	0.0006	
Channel Catfish	Antimony	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0140	0.0008	
Channel Catfish	Antimony	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0137	0.0008	
Channel Catfish	Antimony	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0142	0.0003	
Channel Catfish	Antimony	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0138	0.0008	
Channel Catfish	Antimony	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0138	0.0007	
Channel Catfish	Antimony	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0138	0.0008	
Channel Catfish	Antimony	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.0142	0.0004	
Channel Catfish	Antimony	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0007	
Channel Catfish	Antimony	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0134	0.0008	
Channel Catfish	Antimony	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0142	0.0008	
Channel Catfish	Antimony	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0142	0.0004	
Channel Catfish	Antimony	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0139	0.0009	
Channel Catfish	Arsenic	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0268	0.0017	
Channel Catfish	Arsenic	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0268	0.0013	
Channel Catfish	Arsenic	Inorganic	ER_C	Spring 2010	1	/	6	mg/kg	0.08	-	0.08	0.0401	0.0219	
Channel Catfish	Arsenic	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0267	0.0008	
Channel Catfish	Arsenic	Inorganic	ER_B	Spring 2010	2	/	7	mg/kg	0.04	-	0.10	0.0389	0.0267	
Channel Catfish	Arsenic	Inorganic	ER_B	Fall 2010	1	/	6	mg/kg	0.03	-	0.03	0.0277	0.0023	
Channel Catfish	Arsenic	Inorganic	ER_A	Spring 2010	4	/	5	mg/kg	0.04	-	0.08	0.0515	0.0198	
Channel Catfish	Arsenic	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.07	-	0.07	0.0343	0.0190	
Channel Catfish	Arsenic	Inorganic	CR_R	Spring 2010	4	/	7	mg/kg	0.04	-	0.05	0.0361	0.0093	
Channel Catfish	Arsenic	Inorganic	CR_R	Fall 2010	3	/	6	mg/kg	0.03	-	0.08	0.0415	0.0217	
Channel Catfish	Arsenic	Inorganic	CR_B	Spring 2010	2	/	6	mg/kg	0.04	-	0.04	0.0304	0.0060	
Channel Catfish	Arsenic	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0333	0.0135	
Channel Catfish	Arsenic	Inorganic	CR_A	Spring 2010	4	/	6	mg/kg	0.03	-	0.08	0.0453	0.0228	
Channel Catfish	Arsenic	Inorganic	CR_A	Fall 2010	2	/	6	mg/kg	0.03	-	0.05	0.0428	0.0129	
Channel Catfish	Barium	Inorganic	ER_R	Spring 2010	6	/	8	mg/kg	0.07	-	0.14	0.0901	0.0367	

Notes:

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Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Channel Catfish	Barium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0440	0.0017	
Channel Catfish	Barium	Inorganic	ER_C	Spring 2010	5	/	6	mg/kg	0.05	-	0.23	0.1210	0.0805	
Channel Catfish	Barium	Inorganic	ER_C	Fall 2010	5	/	6	mg/kg	0.04	-	0.60	0.1408	0.2251	
Channel Catfish	Barium	Inorganic	ER_B	Spring 2010	6	/	7	mg/kg	0.05	-	0.22	0.0849	0.0622	
Channel Catfish	Barium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0437	0.0016	
Channel Catfish	Barium	Inorganic	ER_A	Spring 2010	2	/	5	mg/kg	0.06	-	0.17	0.0727	0.0565	
Channel Catfish	Barium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0442	0.0029	
Channel Catfish	Barium	Inorganic	CR_R	Spring 2010	5	/	7	mg/kg	0.05	-	0.35	0.1437	0.1204	
Channel Catfish	Barium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0444	0.0023	
Channel Catfish	Barium	Inorganic	CR_B	Spring 2010	4	/	6	mg/kg	0.04	-	0.11	0.0570	0.0268	
Channel Catfish	Barium	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0450	0.0027	
Channel Catfish	Barium	Inorganic	CR_A	Spring 2010	3	/	6	mg/kg	0.06	-	0.07	0.0555	0.0110	
Channel Catfish	Barium	Inorganic	CR_A	Fall 2010	1	/	6	mg/kg	0.01	-	0.01	0.0386	0.0150	
Channel Catfish	Beryllium	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0282	0.0016	
Channel Catfish	Beryllium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0281	0.0012	
Channel Catfish	Beryllium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0337	0.0132	
Channel Catfish	Beryllium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0572	0.0023	
Channel Catfish	Beryllium	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0289	0.0010	
Channel Catfish	Beryllium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0282	0.0012	
Channel Catfish	Beryllium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0282	0.0019	
Channel Catfish	Beryllium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0284	0.0017	
Channel Catfish	Beryllium	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.0295	0.0009	
Channel Catfish	Beryllium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0287	0.0010	
Channel Catfish	Beryllium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0278	0.0018	
Channel Catfish	Beryllium	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0352	0.0146	
Channel Catfish	Beryllium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0287	0.0011	
Channel Catfish	Beryllium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0427	0.0150	
Channel Catfish	Boron	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.3994	0.0215	
Channel Catfish	Boron	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.3956	0.0146	
Channel Catfish	Boron	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.4005	0.0242	
Channel Catfish	Boron	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.3950	0.0152	
Channel Catfish	Boron	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.4046	0.0117	
Channel Catfish	Boron	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.3950	0.0152	
Channel Catfish	Boron	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.3988	0.0205	
Channel Catfish	Boron	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.3982	0.0248	
Channel Catfish	Boron	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.4089	0.0173	
Channel Catfish	Boron	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.4009	0.0158	
Channel Catfish	Boron	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.3883	0.0236	
Channel Catfish	Boron	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.4060	0.0230	
Channel Catfish	Boron	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.4058	0.0158	
Channel Catfish	Boron	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.4025	0.0275	
Channel Catfish	Cadmium	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0073	0.0004	
Channel Catfish	Cadmium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0073	0.0003	
Channel Catfish	Cadmium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0088	0.0033	
Channel Catfish	Cadmium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0073	0.0003	
Channel Catfish	Cadmium	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0075	0.0002	
Channel Catfish	Cadmium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0072	0.0003	
Channel Catfish	Cadmium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0073	0.0003	
Channel Catfish	Cadmium	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.02	-	0.02	0.0090	0.0044	
Channel Catfish	Cadmium	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.0075	0.0003	
Channel Catfish	Cadmium	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.02	-	0.02	0.0093	0.0050	
Channel Catfish	Cadmium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0071	0.0004	
Channel Catfish	Cadmium	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0091	0.0038	
Channel Catfish	Cadmium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0075	0.0003	
Channel Catfish	Cadmium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0074	0.0005	
Channel Catfish	Chromium	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.1219	0.0063	
Channel Catfish	Chromium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.1222	0.0047	
Channel Catfish	Chromium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.1232	0.0072	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyl
RL - reporting limit

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Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Channel Catfish	Chromium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.1217	0.0041	
Channel Catfish	Chromium	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.1240	0.0029	
Channel Catfish	Chromium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.1217	0.0041	
Channel Catfish	Chromium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.1219	0.0054	
Channel Catfish	Chromium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.1193	0.0082	
Channel Catfish	Chromium	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.1248	0.0040	
Channel Catfish	Chromium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.1229	0.0056	
Channel Catfish	Chromium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.1178	0.0071	
Channel Catfish	Chromium	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.1240	0.0089	
Channel Catfish	Chromium	Inorganic	CR_A	Spring 2010	1	/	6	mg/kg	0.20	-	0.20	0.1380	0.0302	
Channel Catfish	Chromium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.1224	0.0076	
Channel Catfish	Cobalt	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0135	0.0007	
Channel Catfish	Cobalt	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0135	0.0006	
Channel Catfish	Cobalt	Inorganic	ER_C	Spring 2010	1	/	6	mg/kg	0.03	-	0.03	0.0161	0.0061	
Channel Catfish	Cobalt	Inorganic	ER_C	Fall 2010	2	/	6	mg/kg	0.02	-	0.04	0.0180	0.0086	
Channel Catfish	Cobalt	Inorganic	ER_B	Spring 2010	2	/	7	mg/kg	0.02	-	0.03	0.0161	0.0043	
Channel Catfish	Cobalt	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0135	0.0005	
Channel Catfish	Cobalt	Inorganic	ER_A	Spring 2010	1	/	5	mg/kg	0.02	-	0.02	0.0139	0.0014	
Channel Catfish	Cobalt	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0137	0.0008	
Channel Catfish	Cobalt	Inorganic	CR_R	Spring 2010	5	/	7	mg/kg	0.01	-	0.03	0.0191	0.0067	
Channel Catfish	Cobalt	Inorganic	CR_R	Fall 2010	2	/	6	mg/kg	0.01	-	0.02	0.0144	0.0020	
Channel Catfish	Cobalt	Inorganic	CR_B	Spring 2010	2	/	6	mg/kg	0.01	-	0.01	0.0134	0.0008	
Channel Catfish	Cobalt	Inorganic	CR_B	Fall 2010	2	/	5	mg/kg	0.02	-	0.03	0.0166	0.0059	
Channel Catfish	Cobalt	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0138	0.0005	
Channel Catfish	Cobalt	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0136	0.0008	
Channel Catfish	Copper	Inorganic	ER_R	Spring 2010	8	/	8	mg/kg	0.20	-	0.42	0.2865	0.0875	
Channel Catfish	Copper	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.03	-	1.04	0.3713	0.2786	
Channel Catfish	Copper	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.21	-	1.80	0.5149	0.6318	
Channel Catfish	Copper	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.23	-	0.77	0.4267	0.2142	
Channel Catfish	Copper	Inorganic	ER_B	Spring 2010	7	/	7	mg/kg	0.24	-	0.49	0.3144	0.0827	
Channel Catfish	Copper	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.25	-	1.10	0.4317	0.3285	
Channel Catfish	Copper	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.27	-	10.30	3.0162	4.3516	$p < 0.05$
Channel Catfish	Copper	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.28	-	0.65	0.4236	0.1665	$p < 0.05$
Channel Catfish	Copper	Inorganic	CR_R	Spring 2010	7	/	7	mg/kg	0.28	-	3.74	0.8407	1.2787	
Channel Catfish	Copper	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.26	-	0.47	0.3561	0.0740	
Channel Catfish	Copper	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.21	-	2.90	0.7026	1.0772	
Channel Catfish	Copper	Inorganic	CR_B	Fall 2010	5	/	5	mg/kg	0.34	-	1.10	0.6580	0.3633	
Channel Catfish	Copper	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.25	-	7.10	1.9181	2.7782	
Channel Catfish	Copper	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.05	-	0.56	0.2210	0.1830	
Channel Catfish	gamma-Chlordane	Pesticides	ER_R	Spring 2010	1	/	2	ug/kg	6.30	-	6.30	4.4000	2.6870	
Channel Catfish	gamma-Chlordane	Pesticides	ER_R	Fall 2010	0	/	1	ug/kg		-		2.5000		
Channel Catfish	gamma-Chlordane	Pesticides	ER_C	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Channel Catfish	gamma-Chlordane	Pesticides	ER_B	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Channel Catfish	gamma-Chlordane	Pesticides	ER_B	Fall 2010	0	/	1	ug/kg		-		2.5000		
Channel Catfish	gamma-Chlordane	Pesticides	ER_A	Spring 2010	1	/	2	ug/kg	5.70	-	5.70	4.1000	2.2627	
Channel Catfish	gamma-Chlordane	Pesticides	ER_A	Fall 2010	0	/	1	ug/kg		-		2.5000		
Channel Catfish	gamma-Chlordane	Pesticides	CR_R	Spring 2010	2	/	2	ug/kg	4.30	-	8.40	6.3500	2.8991	
Channel Catfish	gamma-Chlordane	Pesticides	CR_R	Fall 2010	0	/	1	ug/kg		-		2.5000		
Channel Catfish	gamma-Chlordane	Pesticides	CR_B	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Channel Catfish	gamma-Chlordane	Pesticides	CR_A	Spring 2010	2	/	2	ug/kg	2.70	-	3.10	2.9000	0.2828	
Channel Catfish	gamma-Chlordane	Pesticides	CR_A	Fall 2010	0	/	1	ug/kg		-		2.5000		
Channel Catfish	Lead	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0265	0.0013	
Channel Catfish	Lead	Inorganic	ER_R	Fall 2010	1	/	12	mg/kg	0.04	-	0.04	0.0280	0.0046	
Channel Catfish	Lead	Inorganic	ER_C	Spring 2010	2	/	6	mg/kg	0.03	-	0.07	0.0358	0.0168	
Channel Catfish	Lead	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0265	0.0010	
Channel Catfish	Lead	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0272	0.0011	
Channel Catfish	Lead	Inorganic	ER_B	Fall 2010	1	/	6	mg/kg	0.03	-	0.03	0.0270	0.0023	
Channel Catfish	Lead	Inorganic	ER_A	Spring 2010	2	/	5	mg/kg	0.19	-	0.45	0.1422	0.1846	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyl
RL - reporting limit

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Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Channel Catfish	Lead	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0265	0.0015	
Channel Catfish	Lead	Inorganic	CR_R	Spring 2010	1	/	7	mg/kg	0.18	-	0.18	0.0492	0.0571	
Channel Catfish	Lead	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.03	-	0.03	0.0267	0.0009	
Channel Catfish	Lead	Inorganic	CR_B	Spring 2010	2	/	6	mg/kg	0.03	-	0.12	0.0430	0.0397	
Channel Catfish	Lead	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0276	0.0017	
Channel Catfish	Lead	Inorganic	CR_A	Spring 2010	2	/	6	mg/kg	0.11	-	0.31	0.0885	0.1134	
Channel Catfish	Lead	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0274	0.0017	
Channel Catfish	Manganese	Inorganic	ER_R	Spring 2010	8	/	8	mg/kg	0.23	-	0.95	0.4428	0.2240	
Channel Catfish	Manganese	Inorganic	ER_R	Fall 2010	3	/	12	mg/kg	0.17	-	0.23	0.1693	0.0202	
Channel Catfish	Manganese	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.22	-	1.71	0.7801	0.5977	$p < 0.05$
Channel Catfish	Manganese	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.19	-	4.50	0.9867	1.7224	$p < 0.05$
Channel Catfish	Manganese	Inorganic	ER_B	Spring 2010	7	/	7	mg/kg	0.33	-	0.96	0.5711	0.2000	
Channel Catfish	Manganese	Inorganic	ER_B	Fall 2010	2	/	6	mg/kg	0.20	-	0.22	0.1800	0.0245	
Channel Catfish	Manganese	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.27	-	1.04	0.5049	0.3076	
Channel Catfish	Manganese	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.20	-	0.20	0.1716	0.0171	
Channel Catfish	Manganese	Inorganic	CR_R	Spring 2010	7	/	7	mg/kg	0.19	-	2.96	1.0180	0.9771	
Channel Catfish	Manganese	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.27	-	0.27	0.1851	0.0436	
Channel Catfish	Manganese	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.17	-	1.15	0.5056	0.3684	
Channel Catfish	Manganese	Inorganic	CR_B	Fall 2010	5	/	5	mg/kg	0.16	-	0.84	0.3260	0.2895	
Channel Catfish	Manganese	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.20	-	0.61	0.4290	0.1698	
Channel Catfish	Manganese	Inorganic	CR_A	Fall 2010	2	/	6	mg/kg	0.03	-	0.23	0.1564	0.0663	
Channel Catfish	Mercury	Inorganic	ER_R	Spring 2010	8	/	8	mg/kg	0.07	-	0.25	0.1198	0.0602	
Channel Catfish	Mercury	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.01	-	0.24	0.0822	0.0668	
Channel Catfish	Mercury	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.06	-	0.21	0.1125	0.0581	
Channel Catfish	Mercury	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.03	-	0.26	0.1105	0.0832	
Channel Catfish	Mercury	Inorganic	ER_B	Spring 2010	7	/	7	mg/kg	0.02	-	0.15	0.0676	0.0462	
Channel Catfish	Mercury	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.05	-	0.10	0.0740	0.0189	
Channel Catfish	Mercury	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.04	-	0.09	0.0696	0.0201	
Channel Catfish	Mercury	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.04	-	0.11	0.0742	0.0279	
Channel Catfish	Mercury	Inorganic	CR_R	Spring 2010	7	/	7	mg/kg	0.05	-	0.23	0.0960	0.0634	
Channel Catfish	Mercury	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.05	-	0.17	0.0859	0.0490	
Channel Catfish	Mercury	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.05	-	0.39	0.1480	0.1316	
Channel Catfish	Mercury	Inorganic	CR_B	Fall 2010	5	/	5	mg/kg	0.04	-	0.21	0.1196	0.0639	
Channel Catfish	Mercury	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.06	-	0.10	0.0748	0.0149	
Channel Catfish	Mercury	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.01	-	0.14	0.0700	0.0591	
Channel Catfish	Molybdenum	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0339	0.0016	
Channel Catfish	Molybdenum	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0336	0.0014	
Channel Catfish	Molybdenum	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0342	0.0025	
Channel Catfish	Molybdenum	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0335	0.0015	
Channel Catfish	Molybdenum	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0347	0.0011	
Channel Catfish	Molybdenum	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0333	0.0012	
Channel Catfish	Molybdenum	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0336	0.0018	
Channel Catfish	Molybdenum	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0339	0.0017	
Channel Catfish	Molybdenum	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.0346	0.0009	
Channel Catfish	Molybdenum	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0345	0.0015	
Channel Catfish	Molybdenum	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0325	0.0023	
Channel Catfish	Molybdenum	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0346	0.0017	
Channel Catfish	Molybdenum	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0346	0.0012	
Channel Catfish	Molybdenum	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0336	0.0020	
Channel Catfish	Nickel	Inorganic	ER_R	Spring 2010	2	/	8	mg/kg	0.20	-	0.20	0.1209	0.0481	
Channel Catfish	Nickel	Inorganic	ER_R	Fall 2010	2	/	12	mg/kg	0.11	-	0.13	0.0979	0.0118	
Channel Catfish	Nickel	Inorganic	ER_C	Spring 2010	1	/	6	mg/kg	0.55	-	0.55	0.1718	0.1859	
Channel Catfish	Nickel	Inorganic	ER_C	Fall 2010	3	/	6	mg/kg	0.11	-	0.14	0.1057	0.0192	
Channel Catfish	Nickel	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0957	0.0026	
Channel Catfish	Nickel	Inorganic	ER_B	Fall 2010	1	/	6	mg/kg	0.10	-	0.10	0.0937	0.0046	
Channel Catfish	Nickel	Inorganic	ER_A	Spring 2010	2	/	5	mg/kg	0.21	-	0.49	0.1948	0.1738	
Channel Catfish	Nickel	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.11	-	0.11	0.0964	0.0083	
Channel Catfish	Nickel	Inorganic	CR_R	Spring 2010	3	/	7	mg/kg	0.16	-	0.41	0.1663	0.1144	

Notes:

CR_A - Clinch Reach A
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mg/kg - milligrams per kilogram
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PCB - polychlorinated biphenyl
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Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Channel Catfish	Nickel	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.21	-	0.21	0.1141	0.0486	
Channel Catfish	Nickel	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0903	0.0052	
Channel Catfish	Nickel	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0954	0.0051	
Channel Catfish	Nickel	Inorganic	CR_A	Spring 2010	3	/	6	mg/kg	0.17	-	0.48	0.1854	0.1492	
Channel Catfish	Nickel	Inorganic	CR_A	Fall 2010	1	/	6	mg/kg	0.03	-	0.03	0.0839	0.0277	
Channel Catfish	PCB-1016	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1016	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1016	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		125.0000	106.0660	
Channel Catfish	PCB-1016	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1016	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1016	PCB	ER_A	Spring 2010	0	/	2	ug/kg		-		52.8500	4.0305	
Channel Catfish	PCB-1016	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1016	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1016	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1016	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		150.0000	70.7107	
Channel Catfish	PCB-1016	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1016	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1221	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1221	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1221	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		125.0000	106.0660	
Channel Catfish	PCB-1221	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1221	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1221	PCB	ER_A	Spring 2010	0	/	2	ug/kg		-		52.8500	4.0305	
Channel Catfish	PCB-1221	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1221	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1221	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1221	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		150.0000	70.7107	
Channel Catfish	PCB-1221	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1221	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1232	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1232	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1232	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		125.0000	106.0660	
Channel Catfish	PCB-1232	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1232	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1232	PCB	ER_A	Spring 2010	0	/	2	ug/kg		-		52.8500	4.0305	
Channel Catfish	PCB-1232	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1232	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1232	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1232	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		150.0000	70.7107	
Channel Catfish	PCB-1232	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1232	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1242	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1242	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1242	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		125.0000	106.0660	
Channel Catfish	PCB-1242	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1242	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1242	PCB	ER_A	Spring 2010	0	/	2	ug/kg		-		52.8500	4.0305	
Channel Catfish	PCB-1242	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1242	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1242	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1242	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		150.0000	70.7107	
Channel Catfish	PCB-1242	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1242	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1248	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1248	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1248	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		125.0000	106.0660	
Channel Catfish	PCB-1248	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1248	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyl
RL - reporting limit

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Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Channel Catfish	PCB-1248	PCB	ER_A	Spring 2010	0	/	2	ug/kg		-		52.8500	4.0305	
Channel Catfish	PCB-1248	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1248	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		100.0000	0.0000	
Channel Catfish	PCB-1248	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1248	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		150.0000	70.7107	
Channel Catfish	PCB-1248	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Channel Catfish	PCB-1248	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1254	PCB	ER_R	Spring 2010	2	/	2	ug/kg	110.00	-	141.00	125.5000	21.9203	
Channel Catfish	PCB-1254	PCB	ER_R	Fall 2010	1	/	1	ug/kg	64.90	-	64.90	64.9000		
Channel Catfish	PCB-1254	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		125.0000	106.0660	
Channel Catfish	PCB-1254	PCB	ER_B	Spring 2010	1	/	2	ug/kg	96.50	-	96.50	73.2500	32.8805	
Channel Catfish	PCB-1254	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Channel Catfish	PCB-1254	PCB	ER_A	Spring 2010	2	/	2	ug/kg	76.20	-	121.00	98.6000	31.6784	
Channel Catfish	PCB-1254	PCB	ER_A	Fall 2010	1	/	1	ug/kg	59.20	-	59.20	59.2000		
Channel Catfish	PCB-1254	PCB	CR_R	Spring 2010	2	/	2	ug/kg	130.00	-	189.00	159.5000	41.7193	
Channel Catfish	PCB-1254	PCB	CR_R	Fall 2010	1	/	1	ug/kg	68.70	-	68.70	68.7000		
Channel Catfish	PCB-1254	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		150.0000	70.7107	
Channel Catfish	PCB-1254	PCB	CR_A	Spring 2010	2	/	2	ug/kg	99.60	-	109.00	104.3000	6.6468	
Channel Catfish	PCB-1254	PCB	CR_A	Fall 2010	1	/	1	ug/kg	91.70	-	91.70	91.7000		
Channel Catfish	PCB-1260	PCB	ER_R	Spring 2010	2	/	2	ug/kg	320.00	-	494.00	407.0000	123.0366	
Channel Catfish	PCB-1260	PCB	ER_R	Fall 2010	1	/	1	ug/kg	176.00	-	176.00	176.0000		
Channel Catfish	PCB-1260	PCB	ER_C	Spring 2010	2	/	2	ug/kg	126.00	-	1120.00	623.0000	702.8641	
Channel Catfish	PCB-1260	PCB	ER_B	Spring 2010	2	/	2	ug/kg	140.00	-	296.00	218.0000	110.3087	
Channel Catfish	PCB-1260	PCB	ER_B	Fall 2010	1	/	1	ug/kg	126.00	-	126.00	126.0000		
Channel Catfish	PCB-1260	PCB	ER_A	Spring 2010	2	/	2	ug/kg	229.00	-	309.00	269.0000	56.5685	
Channel Catfish	PCB-1260	PCB	ER_A	Fall 2010	1	/	1	ug/kg	119.00	-	119.00	119.0000		
Channel Catfish	PCB-1260	PCB	CR_R	Spring 2010	2	/	2	ug/kg	296.00	-	441.00	368.5000	102.5305	
Channel Catfish	PCB-1260	PCB	CR_R	Fall 2010	1	/	1	ug/kg	153.00	-	153.00	153.0000		
Channel Catfish	PCB-1260	PCB	CR_B	Spring 2010	2	/	2	ug/kg	386.00	-	757.00	571.5000	262.3366	
Channel Catfish	PCB-1260	PCB	CR_A	Spring 2010	2	/	2	ug/kg	216.00	-	227.00	221.5000	7.7782	
Channel Catfish	PCB-1260	PCB	CR_A	Fall 2010	1	/	1	ug/kg	188.00	-	188.00	188.0000		
Channel Catfish	Selenium	Inorganic	ER_R	Spring 2010	8	/	8	mg/kg	0.16	-	0.40	0.2423	0.0821	
Channel Catfish	Selenium	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.05	-	0.33	0.2087	0.0864	
Channel Catfish	Selenium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.17	-	0.32	0.2541	0.0595	
Channel Catfish	Selenium	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.19	-	0.29	0.2400	0.0400	
Channel Catfish	Selenium	Inorganic	ER_B	Spring 2010	7	/	7	mg/kg	0.24	-	0.48	0.3587	0.0921	p < 0.05
Channel Catfish	Selenium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.25	-	0.44	0.3717	0.0691	p < 0.05
Channel Catfish	Selenium	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.29	-	0.44	0.3675	0.0543	p < 0.05
Channel Catfish	Selenium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.29	-	0.53	0.3796	0.0828	p < 0.05
Channel Catfish	Selenium	Inorganic	CR_R	Spring 2010	7	/	7	mg/kg	0.16	-	0.38	0.2445	0.0704	
Channel Catfish	Selenium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.15	-	0.38	0.2648	0.0956	
Channel Catfish	Selenium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.25	-	0.38	0.3236	0.0443	
Channel Catfish	Selenium	Inorganic	CR_B	Fall 2010	5	/	5	mg/kg	0.17	-	0.40	0.2540	0.0910	
Channel Catfish	Selenium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.25	-	0.49	0.3817	0.0808	0.05 < p < 0.1
Channel Catfish	Selenium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.06	-	0.43	0.2305	0.1709	0.05 < p < 0.1
Channel Catfish	Silver	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0077	0.0031	
Channel Catfish	Silver	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0028	0.0001	
Channel Catfish	Silver	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0039	0.0028	
Channel Catfish	Silver	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0001	
Channel Catfish	Silver	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0028	0.0001	
Channel Catfish	Silver	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0027	0.0001	
Channel Catfish	Silver	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0028	0.0001	
Channel Catfish	Silver	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0029	0.0006	
Channel Catfish	Silver	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.0028	0.0001	
Channel Catfish	Silver	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0002	
Channel Catfish	Silver	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0026	0.0002	
Channel Catfish	Silver	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0029	0.0002	
Channel Catfish	Silver	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0001	

Notes:

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Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Channel Catfish	Silver	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0027	0.0002	
Channel Catfish	Strontium	Inorganic	ER_R	Spring 2010	8	/	8	mg/kg	0.15	-	1.08	0.5802	0.3239	
Channel Catfish	Strontium	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.01	-	0.09	0.0571	0.0236	
Channel Catfish	Strontium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.29	-	2.39	0.8794	0.8105	p < 0.05
Channel Catfish	Strontium	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.13	-	3.10	0.7000	1.1776	p < 0.05
Channel Catfish	Strontium	Inorganic	ER_B	Spring 2010	7	/	7	mg/kg	0.33	-	1.33	0.6162	0.3379	
Channel Catfish	Strontium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.05	-	0.11	0.0685	0.0213	
Channel Catfish	Strontium	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.18	-	1.24	0.5250	0.4105	
Channel Catfish	Strontium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.05	-	0.11	0.0738	0.0203	
Channel Catfish	Strontium	Inorganic	CR_R	Spring 2010	7	/	7	mg/kg	0.10	-	4.54	1.5511	1.7132	
Channel Catfish	Strontium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.06	-	0.08	0.0709	0.0059	
Channel Catfish	Strontium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.08	-	1.43	0.5154	0.4685	
Channel Catfish	Strontium	Inorganic	CR_B	Fall 2010	5	/	5	mg/kg	0.06	-	0.24	0.1268	0.0697	
Channel Catfish	Strontium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.12	-	0.73	0.3734	0.2519	
Channel Catfish	Strontium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.01	-	0.08	0.0459	0.0261	
Channel Catfish	Thallium	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0231	0.0065	
Channel Catfish	Thallium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0132	0.0005	
Channel Catfish	Thallium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0156	0.0057	
Channel Catfish	Thallium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0387	0.0016	
Channel Catfish	Thallium	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0135	0.0004	
Channel Catfish	Thallium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0132	0.0004	
Channel Catfish	Thallium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0132	0.0006	
Channel Catfish	Thallium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0130	0.0008	
Channel Catfish	Thallium	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.0136	0.0004	
Channel Catfish	Thallium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0133	0.0006	
Channel Catfish	Thallium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0128	0.0008	
Channel Catfish	Thallium	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0134	0.0009	
Channel Catfish	Thallium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0136	0.0005	
Channel Catfish	Thallium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0133	0.0008	
Channel Catfish	Vanadium	Inorganic	ER_R	Spring 2010	0	/	8	mg/kg		-		0.0440	0.0024	
Channel Catfish	Vanadium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0438	0.0018	
Channel Catfish	Vanadium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0442	0.0025	
Channel Catfish	Vanadium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0437	0.0016	
Channel Catfish	Vanadium	Inorganic	ER_B	Spring 2010	0	/	7	mg/kg		-		0.0448	0.0014	
Channel Catfish	Vanadium	Inorganic	ER_B	Fall 2010	0	/	6	mg/kg		-		0.0435	0.0015	
Channel Catfish	Vanadium	Inorganic	ER_A	Spring 2010	0	/	5	mg/kg		-		0.0435	0.0023	
Channel Catfish	Vanadium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0437	0.0023	
Channel Catfish	Vanadium	Inorganic	CR_R	Spring 2010	0	/	7	mg/kg		-		0.0451	0.0016	
Channel Catfish	Vanadium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0440	0.0018	
Channel Catfish	Vanadium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0426	0.0025	
Channel Catfish	Vanadium	Inorganic	CR_B	Fall 2010	0	/	5	mg/kg		-		0.0540	0.0218	
Channel Catfish	Vanadium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0444	0.0014	
Channel Catfish	Vanadium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0442	0.0028	
Channel Catfish	Zinc	Inorganic	ER_R	Spring 2010	8	/	8	mg/kg	6.28	-	12.04	7.5795	1.9452	
Channel Catfish	Zinc	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.82	-	10.00	5.9508	2.7713	
Channel Catfish	Zinc	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	6.53	-	12.75	8.5650	2.4682	
Channel Catfish	Zinc	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	6.10	-	8.50	7.5333	0.8548	
Channel Catfish	Zinc	Inorganic	ER_B	Spring 2010	7	/	7	mg/kg	5.50	-	7.22	6.3691	0.7055	
Channel Catfish	Zinc	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	5.40	-	7.90	6.6167	1.0187	
Channel Catfish	Zinc	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	6.78	-	12.86	8.8480	2.3947	
Channel Catfish	Zinc	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	4.80	-	8.30	6.4680	1.3176	
Channel Catfish	Zinc	Inorganic	CR_R	Spring 2010	7	/	7	mg/kg	5.49	-	13.35	8.0936	3.4129	
Channel Catfish	Zinc	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	4.33	-	6.02	5.3063	0.6510	
Channel Catfish	Zinc	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	5.38	-	9.90	7.2625	1.4688	
Channel Catfish	Zinc	Inorganic	CR_B	Fall 2010	5	/	5	mg/kg	7.60	-	10.60	8.7200	1.1819	
Channel Catfish	Zinc	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	5.39	-	12.08	7.5005	2.6348	
Channel Catfish	Zinc	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	1.19	-	8.34	3.9227	2.9074	

Notes:

CR_A - Clinch Reach A
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ARCADIS

Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	alpha-Chlordane	Pesticides	ER_R	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	alpha-Chlordane	Pesticides	ER_R	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	alpha-Chlordane	Pesticides	ER_C	Spring 2010	1	/	2	ug/kg	9.40	-	9.40	5.9500	4.8790	
Largemouth Bass	alpha-Chlordane	Pesticides	ER_B	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	alpha-Chlordane	Pesticides	ER_B	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	alpha-Chlordane	Pesticides	ER_A	Spring 2010	0	/	3	ug/kg		-		2.5000	0.0000	
Largemouth Bass	alpha-Chlordane	Pesticides	ER_A	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	alpha-Chlordane	Pesticides	CR_R	Spring 2010	1	/	2	ug/kg	5.40	-	5.40	3.9500	2.0506	
Largemouth Bass	alpha-Chlordane	Pesticides	CR_R	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	alpha-Chlordane	Pesticides	CR_B	Spring 2010	1	/	2	ug/kg	5.60	-	5.60	4.0500	2.1920	
Largemouth Bass	alpha-Chlordane	Pesticides	CR_A	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	alpha-Chlordane	Pesticides	CR_A	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	Aluminum	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		4.2784	1.1634	
Largemouth Bass	Aluminum	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		3.8028	0.1702	
Largemouth Bass	Aluminum	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		3.9713	0.1610	
Largemouth Bass	Aluminum	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		3.8833	0.2137	
Largemouth Bass	Aluminum	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		3.9318	0.1877	
Largemouth Bass	Aluminum	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		3.8714	0.1496	
Largemouth Bass	Aluminum	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		4.6750	1.7708	
Largemouth Bass	Aluminum	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		3.8333	0.2503	
Largemouth Bass	Aluminum	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		4.0160	0.1126	
Largemouth Bass	Aluminum	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		3.8153	0.1045	
Largemouth Bass	Aluminum	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		3.9350	0.0592	
Largemouth Bass	Aluminum	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		3.8667	0.2503	
Largemouth Bass	Aluminum	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		3.9620	0.1669	
Largemouth Bass	Aluminum	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		3.7423	0.1963	
Largemouth Bass	Antimony	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0143	0.0007	
Largemouth Bass	Antimony	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0138	0.0007	
Largemouth Bass	Antimony	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0143	0.0005	
Largemouth Bass	Antimony	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0009	
Largemouth Bass	Antimony	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0142	0.0007	
Largemouth Bass	Antimony	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0141	0.0007	
Largemouth Bass	Antimony	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0168	0.0060	
Largemouth Bass	Antimony	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0009	
Largemouth Bass	Antimony	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0145	0.0004	
Largemouth Bass	Antimony	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0138	0.0004	
Largemouth Bass	Antimony	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0142	0.0002	
Largemouth Bass	Antimony	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0009	
Largemouth Bass	Antimony	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0143	0.0006	
Largemouth Bass	Antimony	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0136	0.0007	
Largemouth Bass	Arsenic	Inorganic	ER_R	Spring 2010	12	/	12	mg/kg	0.02	-	0.18	0.1161	0.0510	
Largemouth Bass	Arsenic	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.01	-	0.21	0.0866	0.0747	
Largemouth Bass	Arsenic	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.11	-	0.24	0.1658	0.0443	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.21	-	0.41	0.2983	0.0688	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.13	-	0.20	0.1671	0.0227	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	0.16	-	0.30	0.2086	0.0641	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	0.07	-	0.37	0.2763	0.1144	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.14	-	0.38	0.3017	0.0859	p < 0.05
Largemouth Bass	Arsenic	Inorganic	CR_R	Spring 2010	6	/	6	mg/kg	0.13	-	0.31	0.2357	0.0665	
Largemouth Bass	Arsenic	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.17	-	0.34	0.2650	0.0663	
Largemouth Bass	Arsenic	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.17	-	0.31	0.2490	0.0475	
Largemouth Bass	Arsenic	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.17	-	0.33	0.2700	0.0684	
Largemouth Bass	Arsenic	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.06	-	0.33	0.2089	0.1060	
Largemouth Bass	Arsenic	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.10	-	0.28	0.1862	0.0650	
Largemouth Bass	Barium	Inorganic	ER_R	Spring 2010	1	/	12	mg/kg	0.05	-	0.05	0.0456	0.0020	
Largemouth Bass	Barium	Inorganic	ER_R	Fall 2010	2	/	12	mg/kg	0.01	-	0.05	0.0409	0.0094	
Largemouth Bass	Barium	Inorganic	ER_C	Spring 2010	2	/	6	mg/kg	0.05	-	0.07	0.0487	0.0086	
Largemouth Bass	Barium	Inorganic	ER_C	Fall 2010	4	/	6	mg/kg	0.06	-	0.26	0.0963	0.0836	

Notes:

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Largemouth Bass	Barium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0451	0.0025	
Largemouth Bass	Barium	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0441	0.0016	
Largemouth Bass	Barium	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0540	0.0203	
Largemouth Bass	Barium	Inorganic	ER_A	Fall 2010	1	/	6	mg/kg	0.06	-	0.06	0.0458	0.0057	
Largemouth Bass	Barium	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0463	0.0015	
Largemouth Bass	Barium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0439	0.0012	
Largemouth Bass	Barium	Inorganic	CR_B	Spring 2010	3	/	6	mg/kg	0.10	-	0.59	0.1559	0.2134	
Largemouth Bass	Barium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0445	0.0023	
Largemouth Bass	Barium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0450	0.0019	
Largemouth Bass	Barium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0432	0.0024	
Largemouth Bass	Beryllium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0442	0.0270	
Largemouth Bass	Beryllium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0282	0.0011	
Largemouth Bass	Beryllium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0292	0.0014	
Largemouth Bass	Beryllium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0578	0.0030	
Largemouth Bass	Beryllium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0338	0.0127	
Largemouth Bass	Beryllium	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0286	0.0011	
Largemouth Bass	Beryllium	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0345	0.0126	
Largemouth Bass	Beryllium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0283	0.0016	
Largemouth Bass	Beryllium	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0300	0.0014	
Largemouth Bass	Beryllium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0284	0.0005	
Largemouth Bass	Beryllium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0587	0.0008	
Largemouth Bass	Beryllium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0287	0.0016	
Largemouth Bass	Beryllium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0294	0.0015	
Largemouth Bass	Beryllium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0561	0.0037	
Largemouth Bass	Boron	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.4450	0.1179	
Largemouth Bass	Boron	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.3955	0.0178	
Largemouth Bass	Boron	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.4101	0.0208	
Largemouth Bass	Boron	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.4000	0.0190	
Largemouth Bass	Boron	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.4049	0.0207	
Largemouth Bass	Boron	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.4014	0.0157	
Largemouth Bass	Boron	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.4849	0.1787	
Largemouth Bass	Boron	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.3983	0.0264	
Largemouth Bass	Boron	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.4133	0.0070	
Largemouth Bass	Boron	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.3956	0.0115	
Largemouth Bass	Boron	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.4097	0.0074	
Largemouth Bass	Boron	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.4017	0.0204	
Largemouth Bass	Boron	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.4074	0.0190	
Largemouth Bass	Boron	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.3909	0.0228	
Largemouth Bass	Cadmium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0075	0.0004	
Largemouth Bass	Cadmium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0072	0.0003	
Largemouth Bass	Cadmium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0076	0.0003	
Largemouth Bass	Cadmium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0074	0.0004	
Largemouth Bass	Cadmium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0075	0.0004	
Largemouth Bass	Cadmium	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0074	0.0003	
Largemouth Bass	Cadmium	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0089	0.0034	
Largemouth Bass	Cadmium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0073	0.0005	
Largemouth Bass	Cadmium	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0077	0.0003	
Largemouth Bass	Cadmium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0073	0.0002	
Largemouth Bass	Cadmium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0075	0.0001	
Largemouth Bass	Cadmium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0074	0.0004	
Largemouth Bass	Cadmium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0075	0.0003	
Largemouth Bass	Cadmium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0071	0.0004	
Largemouth Bass	Chromium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.1363	0.0385	
Largemouth Bass	Chromium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.1214	0.0052	
Largemouth Bass	Chromium	Inorganic	ER_C	Spring 2010	1	/	6	mg/kg	0.14	-	0.14	0.1300	0.0074	
Largemouth Bass	Chromium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.1250	0.0055	
Largemouth Bass	Chromium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.1247	0.0061	
Largemouth Bass	Chromium	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.1229	0.0076	

Notes:

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Largemouth Bass	Chromium	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.1489	0.0590	
Largemouth Bass	Chromium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.1217	0.0075	
Largemouth Bass	Chromium	Inorganic	CR_R	Spring 2010	1	/	6	mg/kg	0.25	-	0.25	0.1477	0.0506	
Largemouth Bass	Chromium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.1205	0.0034	
Largemouth Bass	Chromium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.1244	0.0020	
Largemouth Bass	Chromium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.1233	0.0052	
Largemouth Bass	Chromium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.1261	0.0051	
Largemouth Bass	Chromium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.1186	0.0063	
Largemouth Bass	Cobalt	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0151	0.0041	
Largemouth Bass	Cobalt	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0133	0.0006	
Largemouth Bass	Cobalt	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0140	0.0006	
Largemouth Bass	Cobalt	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0135	0.0005	
Largemouth Bass	Cobalt	Inorganic	ER_B	Spring 2010	1	/	6	mg/kg	0.02	-	0.02	0.0141	0.0012	
Largemouth Bass	Cobalt	Inorganic	ER_B	Fall 2010	1	/	7	mg/kg	0.02	-	0.02	0.0140	0.0010	
Largemouth Bass	Cobalt	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0164	0.0062	
Largemouth Bass	Cobalt	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0133	0.0008	
Largemouth Bass	Cobalt	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0141	0.0004	
Largemouth Bass	Cobalt	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.01	-	0.01	0.0135	0.0003	
Largemouth Bass	Cobalt	Inorganic	CR_B	Spring 2010	1	/	6	mg/kg	0.02	-	0.02	0.0145	0.0015	
Largemouth Bass	Cobalt	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0137	0.0008	
Largemouth Bass	Cobalt	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0139	0.0006	
Largemouth Bass	Cobalt	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0132	0.0007	
Largemouth Bass	Copper	Inorganic	ER_R	Spring 2010	12	/	12	mg/kg	0.19	-	0.58	0.3210	0.1222	
Largemouth Bass	Copper	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.04	-	0.38	0.2299	0.1201	
Largemouth Bass	Copper	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.20	-	0.62	0.3735	0.1873	$p < 0.05$
Largemouth Bass	Copper	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.28	-	4.20	1.6883	1.9586	$p < 0.05$
Largemouth Bass	Copper	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.19	-	7.28	1.4022	2.8791	
Largemouth Bass	Copper	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	0.27	-	0.71	0.4143	0.1618	
Largemouth Bass	Copper	Inorganic	ER_A	Spring 2010	5	/	6	mg/kg	0.18	-	0.27	0.2354	0.0382	
Largemouth Bass	Copper	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.30	-	0.44	0.3633	0.0568	
Largemouth Bass	Copper	Inorganic	CR_R	Spring 2010	6	/	6	mg/kg	0.15	-	0.33	0.2539	0.0756	
Largemouth Bass	Copper	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.24	-	0.61	0.3639	0.1306	
Largemouth Bass	Copper	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.20	-	0.56	0.3070	0.1376	
Largemouth Bass	Copper	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.27	-	9.70	1.8950	3.8239	
Largemouth Bass	Copper	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.19	-	0.54	0.3674	0.1289	
Largemouth Bass	Copper	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.25	-	0.58	0.3785	0.1521	
Largemouth Bass	gamma-Chlordane	Pesticides	ER_R	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	gamma-Chlordane	Pesticides	ER_R	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	gamma-Chlordane	Pesticides	ER_C	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	gamma-Chlordane	Pesticides	ER_B	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	gamma-Chlordane	Pesticides	ER_B	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	gamma-Chlordane	Pesticides	ER_A	Spring 2010	0	/	3	ug/kg		-		2.5000	0.0000	
Largemouth Bass	gamma-Chlordane	Pesticides	ER_A	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	gamma-Chlordane	Pesticides	CR_R	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	gamma-Chlordane	Pesticides	CR_R	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	gamma-Chlordane	Pesticides	CR_B	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	gamma-Chlordane	Pesticides	CR_A	Spring 2010	0	/	2	ug/kg		-		2.5000	0.0000	
Largemouth Bass	gamma-Chlordane	Pesticides	CR_A	Fall 2010	0	/	1	ug/kg		-		2.5000		
Largemouth Bass	Lead	Inorganic	ER_R	Spring 2010	1	/	12	mg/kg	0.03	-	0.03	0.0275	0.0018	
Largemouth Bass	Lead	Inorganic	ER_R	Fall 2010	1	/	12	mg/kg	0.02	-	0.02	0.0259	0.0024	
Largemouth Bass	Lead	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0278	0.0016	
Largemouth Bass	Lead	Inorganic	ER_C	Fall 2010	2	/	6	mg/kg	0.04	-	0.04	0.0313	0.0068	
Largemouth Bass	Lead	Inorganic	ER_B	Spring 2010	1	/	6	mg/kg	0.24	-	0.24	0.0630	0.0856	
Largemouth Bass	Lead	Inorganic	ER_B	Fall 2010	1	/	7	mg/kg	0.03	-	0.03	0.0276	0.0014	
Largemouth Bass	Lead	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0276	0.0011	
Largemouth Bass	Lead	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0267	0.0021	
Largemouth Bass	Lead	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0279	0.0014	
Largemouth Bass	Lead	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0266	0.0010	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
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PCB - polychlorinated biphenyl
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ARCADIS

Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Lead	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0275	0.0010	
Largemouth Bass	Lead	Inorganic	CR_B	Fall 2010	1	/	6	mg/kg	0.21	-	0.21	0.0577	0.0746	
Largemouth Bass	Lead	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0276	0.0007	
Largemouth Bass	Lead	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0258	0.0012	
Largemouth Bass	Manganese	Inorganic	ER_R	Spring 2010	3	/	12	mg/kg	0.17	-	0.21	0.1881	0.0501	
Largemouth Bass	Manganese	Inorganic	ER_R	Fall 2010	3	/	12	mg/kg	0.04	-	0.09	0.1349	0.0471	
Largemouth Bass	Manganese	Inorganic	ER_C	Spring 2010	3	/	6	mg/kg	0.18	-	0.25	0.1839	0.0313	p < 0.05
Largemouth Bass	Manganese	Inorganic	ER_C	Fall 2010	5	/	6	mg/kg	0.18	-	0.95	0.3733	0.2953	p < 0.05
Largemouth Bass	Manganese	Inorganic	ER_B	Spring 2010	2	/	6	mg/kg	0.17	-	0.23	0.1796	0.0253	
Largemouth Bass	Manganese	Inorganic	ER_B	Fall 2010	4	/	7	mg/kg	0.16	-	0.21	0.1743	0.0181	
Largemouth Bass	Manganese	Inorganic	ER_A	Spring 2010	2	/	6	mg/kg	0.17	-	0.18	0.2009	0.0744	
Largemouth Bass	Manganese	Inorganic	ER_A	Fall 2010	4	/	6	mg/kg	0.18	-	0.29	0.1950	0.0489	
Largemouth Bass	Manganese	Inorganic	CR_R	Spring 2010	3	/	6	mg/kg	0.19	-	0.24	0.1962	0.0299	
Largemouth Bass	Manganese	Inorganic	CR_R	Fall 2010	3	/	6	mg/kg	0.17	-	0.24	0.1801	0.0282	
Largemouth Bass	Manganese	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.23	-	2.72	0.6891	0.9959	0.05 < p < 0.1
Largemouth Bass	Manganese	Inorganic	CR_B	Fall 2010	1	/	6	mg/kg	0.19	-	0.19	0.1700	0.0141	0.05 < p < 0.1
Largemouth Bass	Manganese	Inorganic	CR_A	Spring 2010	4	/	6	mg/kg	0.17	-	0.29	0.1930	0.0474	
Largemouth Bass	Manganese	Inorganic	CR_A	Fall 2010	5	/	6	mg/kg	0.18	-	0.27	0.1987	0.0365	
Largemouth Bass	Mercury	Inorganic	ER_R	Spring 2010	12	/	12	mg/kg	0.08	-	0.24	0.1314	0.0477	
Largemouth Bass	Mercury	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.02	-	0.19	0.0917	0.0625	
Largemouth Bass	Mercury	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.06	-	0.13	0.1011	0.0246	
Largemouth Bass	Mercury	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.04	-	0.28	0.1075	0.0891	
Largemouth Bass	Mercury	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.06	-	0.19	0.1123	0.0474	
Largemouth Bass	Mercury	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	0.05	-	0.14	0.0984	0.0287	
Largemouth Bass	Mercury	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	0.06	-	0.30	0.1169	0.0892	
Largemouth Bass	Mercury	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.07	-	0.28	0.1092	0.0839	
Largemouth Bass	Mercury	Inorganic	CR_R	Spring 2010	6	/	6	mg/kg	0.09	-	0.17	0.1338	0.0357	
Largemouth Bass	Mercury	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.06	-	0.15	0.1001	0.0317	
Largemouth Bass	Mercury	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.04	-	0.14	0.0953	0.0369	
Largemouth Bass	Mercury	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.04	-	0.14	0.0823	0.0410	
Largemouth Bass	Mercury	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.04	-	0.40	0.1443	0.1378	
Largemouth Bass	Mercury	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.06	-	0.18	0.0940	0.0444	
Largemouth Bass	Molybdenum	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0349	0.0022	
Largemouth Bass	Molybdenum	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0336	0.0015	
Largemouth Bass	Molybdenum	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0350	0.0015	
Largemouth Bass	Molybdenum	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0340	0.0019	
Largemouth Bass	Molybdenum	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0345	0.0014	
Largemouth Bass	Molybdenum	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0340	0.0014	
Largemouth Bass	Molybdenum	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0410	0.0155	
Largemouth Bass	Molybdenum	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0338	0.0021	
Largemouth Bass	Molybdenum	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0350	0.0008	
Largemouth Bass	Molybdenum	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0334	0.0012	
Largemouth Bass	Molybdenum	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0346	0.0007	
Largemouth Bass	Molybdenum	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0340	0.0018	
Largemouth Bass	Molybdenum	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0351	0.0018	
Largemouth Bass	Molybdenum	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0330	0.0021	
Largemouth Bass	Nickel	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.1044	0.0282	
Largemouth Bass	Nickel	Inorganic	ER_R	Fall 2010	2	/	12	mg/kg	0.05	-	0.59	0.1290	0.1443	
Largemouth Bass	Nickel	Inorganic	ER_C	Spring 2010	1	/	6	mg/kg	0.11	-	0.11	0.1003	0.0050	
Largemouth Bass	Nickel	Inorganic	ER_C	Fall 2010	1	/	6	mg/kg	0.32	-	0.32	0.1313	0.0925	
Largemouth Bass	Nickel	Inorganic	ER_B	Spring 2010	1	/	6	mg/kg	0.76	-	0.76	0.2071	0.2689	
Largemouth Bass	Nickel	Inorganic	ER_B	Fall 2010	1	/	7	mg/kg	0.13	-	0.13	0.1001	0.0134	
Largemouth Bass	Nickel	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.1140	0.0436	
Largemouth Bass	Nickel	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0938	0.0058	
Largemouth Bass	Nickel	Inorganic	CR_R	Spring 2010	1	/	6	mg/kg	0.12	-	0.12	0.1020	0.0107	
Largemouth Bass	Nickel	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0935	0.0025	
Largemouth Bass	Nickel	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0958	0.0019	
Largemouth Bass	Nickel	Inorganic	CR_B	Fall 2010	2	/	6	mg/kg	0.16	-	0.51	0.1735	0.1671	

Notes:

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ARCADIS

Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Nickel	Inorganic	CR_A	Spring 2010	2	/	6	mg/kg	0.10	-	0.13	0.1023	0.0162	
Largemouth Bass	Nickel	Inorganic	CR_A	Fall 2010	1	/	6	mg/kg	0.11	-	0.11	0.0946	0.0085	
Largemouth Bass	PCB-1016	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1016	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1016	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1016	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1016	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1016	PCB	ER_A	Spring 2010	0	/	3	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1016	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1016	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1016	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1016	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1016	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1016	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1221	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1221	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1221	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1221	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1221	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1221	PCB	ER_A	Spring 2010	0	/	3	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1221	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1221	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1221	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1221	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1221	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1221	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1232	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1232	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1232	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1232	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1232	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1232	PCB	ER_A	Spring 2010	0	/	3	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1232	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1232	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1232	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1232	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1232	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1232	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1242	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1242	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1242	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1242	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1242	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1242	PCB	ER_A	Spring 2010	0	/	3	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1242	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1242	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1242	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1242	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1242	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1242	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1248	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1248	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1248	PCB	ER_C	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1248	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1248	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1248	PCB	ER_A	Spring 2010	0	/	3	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1248	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1248	PCB	CR_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	

Notes:

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Tennessee Valley Authority Kingston, Tennessee

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Largemouth Bass	PCB-1248	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1248	PCB	CR_B	Spring 2010	0	/	2	ug/kg		-		75.0000	35.3553	
Largemouth Bass	PCB-1248	PCB	CR_A	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1248	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1254	PCB	ER_R	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1254	PCB	ER_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1254	PCB	ER_C	Spring 2010	1	/	2	ug/kg	213.00	-	213.00	131.5000	115.2584	0.05 < p < 0.1
Largemouth Bass	PCB-1254	PCB	ER_B	Spring 2010	0	/	2	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1254	PCB	ER_B	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1254	PCB	ER_A	Spring 2010	0	/	3	ug/kg		-		50.0000	0.0000	
Largemouth Bass	PCB-1254	PCB	ER_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1254	PCB	CR_R	Spring 2010	1	/	2	ug/kg	69.00	-	69.00	59.5000	13.4350	
Largemouth Bass	PCB-1254	PCB	CR_R	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1254	PCB	CR_B	Spring 2010	1	/	2	ug/kg	127.00	-	127.00	88.5000	54.4472	
Largemouth Bass	PCB-1254	PCB	CR_A	Spring 2010	2	/	2	ug/kg	60.00	-	83.30	71.6500	16.4756	
Largemouth Bass	PCB-1254	PCB	CR_A	Fall 2010	0	/	1	ug/kg		-		50.0000		
Largemouth Bass	PCB-1260	PCB	ER_R	Spring 2010	2	/	2	ug/kg	97.60	-	105.00	101.3000	5.2326	
Largemouth Bass	PCB-1260	PCB	ER_R	Fall 2010	1	/	1	ug/kg	61.00	-	61.00	61.0000		
Largemouth Bass	PCB-1260	PCB	ER_C	Spring 2010	2	/	2	ug/kg	73.90	-	497.00	285.4500	299.1769	
Largemouth Bass	PCB-1260	PCB	ER_B	Spring 2010	2	/	2	ug/kg	100.00	-	152.00	126.0000	36.7696	
Largemouth Bass	PCB-1260	PCB	ER_B	Fall 2010	1	/	1	ug/kg	68.60	-	68.60	68.6000		
Largemouth Bass	PCB-1260	PCB	ER_A	Spring 2010	3	/	3	ug/kg	60.30	-	158.00	103.4000	49.8549	
Largemouth Bass	PCB-1260	PCB	ER_A	Fall 2010	1	/	1	ug/kg	105.00	-	105.00	105.0000		
Largemouth Bass	PCB-1260	PCB	CR_R	Spring 2010	2	/	2	ug/kg	95.30	-	192.00	143.6500	68.3772	
Largemouth Bass	PCB-1260	PCB	CR_R	Fall 2010	1	/	1	ug/kg	81.30	-	81.30	81.3000		
Largemouth Bass	PCB-1260	PCB	CR_B	Spring 2010	2	/	2	ug/kg	90.30	-	383.00	236.6500	206.9702	
Largemouth Bass	PCB-1260	PCB	CR_A	Spring 2010	2	/	2	ug/kg	222.00	-	234.00	228.0000	8.4853	
Largemouth Bass	PCB-1260	PCB	CR_A	Fall 2010	1	/	1	ug/kg	66.90	-	66.90	66.9000		
Largemouth Bass	Selenium	Inorganic	ER_R	Spring 2010	12	/	12	mg/kg	0.37	-	0.55	0.4553	0.0527	
Largemouth Bass	Selenium	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	0.10	-	0.66	0.3088	0.1942	
Largemouth Bass	Selenium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.37	-	0.69	0.5265	0.1178	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.46	-	0.76	0.6200	0.1296	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.45	-	0.88	0.6575	0.1390	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	0.70	-	0.85	0.7614	0.0540	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	0.50	-	0.73	0.6174	0.0738	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.66	-	0.81	0.7483	0.0519	p < 0.05
Largemouth Bass	Selenium	Inorganic	CR_R	Spring 2010	6	/	6	mg/kg	0.42	-	0.59	0.4977	0.0647	
Largemouth Bass	Selenium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.41	-	0.77	0.5474	0.1498	
Largemouth Bass	Selenium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.48	-	0.66	0.5626	0.0825	p < 0.05
Largemouth Bass	Selenium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.62	-	0.91	0.7300	0.1077	p < 0.05
Largemouth Bass	Selenium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.39	-	0.53	0.4363	0.0516	
Largemouth Bass	Selenium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.52	-	1.00	0.7730	0.1876	
Largemouth Bass	Silver	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0039	0.0025	
Largemouth Bass	Silver	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0027	0.0001	
Largemouth Bass	Silver	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Largemouth Bass	Silver	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0002	
Largemouth Bass	Silver	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0039	0.0028	
Largemouth Bass	Silver	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0028	0.0001	
Largemouth Bass	Silver	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0034	0.0013	
Largemouth Bass	Silver	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0002	
Largemouth Bass	Silver	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Largemouth Bass	Silver	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0001	
Largemouth Bass	Silver	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0028	0.0001	
Largemouth Bass	Silver	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0002	
Largemouth Bass	Silver	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0062	0.0036	
Largemouth Bass	Silver	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0027	0.0002	
Largemouth Bass	Strontium	Inorganic	ER_R	Spring 2010	12	/	12	mg/kg	0.05	-	0.54	0.1876	0.1507	
Largemouth Bass	Strontium	Inorganic	ER_R	Fall 2010	11	/	12	mg/kg	0.01	-	0.46	0.1070	0.1245	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyl
RL - reporting limit

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Table 2. Fillet Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Strontium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.08	-	0.98	0.4297	0.3975	p < 0.05
Largemouth Bass	Strontium	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.51	-	5.10	1.6333	1.7578	p < 0.05
Largemouth Bass	Strontium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.08	-	0.38	0.1954	0.1203	
Largemouth Bass	Strontium	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	0.07	-	0.30	0.1523	0.0845	
Largemouth Bass	Strontium	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	0.07	-	0.36	0.1926	0.1147	0.05 < p < 0.1
Largemouth Bass	Strontium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.12	-	0.75	0.3000	0.2272	0.05 < p < 0.1
Largemouth Bass	Strontium	Inorganic	CR_R	Spring 2010	6	/	6	mg/kg	0.07	-	0.23	0.1413	0.0615	
Largemouth Bass	Strontium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.08	-	0.60	0.3160	0.2148	
Largemouth Bass	Strontium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.55	-	15.82	3.8428	5.9317	p < 0.05
Largemouth Bass	Strontium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.12	-	0.57	0.2767	0.1631	p < 0.05
Largemouth Bass	Strontium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.09	-	0.33	0.1910	0.1025	
Largemouth Bass	Strontium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.14	-	0.60	0.3214	0.1698	
Largemouth Bass	Thallium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0138	0.0010	
Largemouth Bass	Thallium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0131	0.0005	
Largemouth Bass	Thallium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0144	0.0011	
Largemouth Bass	Thallium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0138	0.0012	
Largemouth Bass	Thallium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0197	0.0103	
Largemouth Bass	Thallium	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0146	0.0025	
Largemouth Bass	Thallium	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0181	0.0087	
Largemouth Bass	Thallium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0142	0.0010	
Largemouth Bass	Thallium	Inorganic	CR_R	Spring 2010	0	/	6	mg/kg		-		0.0145	0.0017	
Largemouth Bass	Thallium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0132	0.0003	
Largemouth Bass	Thallium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0141	0.0007	
Largemouth Bass	Thallium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0140	0.0015	
Largemouth Bass	Thallium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0137	0.0007	
Largemouth Bass	Thallium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0130	0.0007	
Largemouth Bass	Vanadium	Inorganic	ER_R	Spring 2010	0	/	12	mg/kg		-		0.0677	0.0453	
Largemouth Bass	Vanadium	Inorganic	ER_R	Fall 2010	0	/	12	mg/kg		-		0.0437	0.0021	
Largemouth Bass	Vanadium	Inorganic	ER_C	Spring 2010	0	/	6	mg/kg		-		0.0846	0.0447	
Largemouth Bass	Vanadium	Inorganic	ER_C	Fall 2010	0	/	6	mg/kg		-		0.0443	0.0023	
Largemouth Bass	Vanadium	Inorganic	ER_B	Spring 2010	0	/	6	mg/kg		-		0.0451	0.0025	
Largemouth Bass	Vanadium	Inorganic	ER_B	Fall 2010	0	/	7	mg/kg		-		0.0440	0.0018	
Largemouth Bass	Vanadium	Inorganic	ER_A	Spring 2010	0	/	6	mg/kg		-		0.0536	0.0204	
Largemouth Bass	Vanadium	Inorganic	ER_A	Fall 2010	0	/	6	mg/kg		-		0.0440	0.0028	
Largemouth Bass	Vanadium	Inorganic	CR_R	Spring 2010	1	/	6	mg/kg	0.08	-	0.08	0.0515	0.0148	
Largemouth Bass	Vanadium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0439	0.0012	
Largemouth Bass	Vanadium	Inorganic	CR_B	Spring 2010	0	/	6	mg/kg		-		0.0452	0.0012	
Largemouth Bass	Vanadium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0442	0.0020	
Largemouth Bass	Vanadium	Inorganic	CR_A	Spring 2010	0	/	6	mg/kg		-		0.0450	0.0019	
Largemouth Bass	Vanadium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0428	0.0023	
Largemouth Bass	Zinc	Inorganic	ER_R	Spring 2010	12	/	12	mg/kg	4.10	-	10.10	7.4273	1.8925	
Largemouth Bass	Zinc	Inorganic	ER_R	Fall 2010	12	/	12	mg/kg	1.68	-	14.90	7.7324	4.7770	
Largemouth Bass	Zinc	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	5.78	-	12.91	9.5628	2.3608	p < 0.05
Largemouth Bass	Zinc	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	7.90	-	15.40	11.0000	2.7878	p < 0.05
Largemouth Bass	Zinc	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	4.97	-	10.58	7.3233	1.9651	0.05 < p < 0.1
Largemouth Bass	Zinc	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	7.70	-	15.60	11.3857	2.6277	0.05 < p < 0.1
Largemouth Bass	Zinc	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	5.67	-	13.95	8.4265	2.8968	p < 0.05
Largemouth Bass	Zinc	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	9.10	-	20.30	12.7500	4.0248	p < 0.05
Largemouth Bass	Zinc	Inorganic	CR_R	Spring 2010	6	/	6	mg/kg	4.14	-	8.69	7.4223	1.6641	
Largemouth Bass	Zinc	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	8.69	-	19.13	12.3860	3.6364	
Largemouth Bass	Zinc	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	6.35	-	16.22	9.7115	3.6564	
Largemouth Bass	Zinc	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	6.50	-	17.80	10.7667	3.9968	
Largemouth Bass	Zinc	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	5.61	-	17.51	10.3337	4.2306	
Largemouth Bass	Zinc	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	9.58	-	16.17	12.3057	2.6554	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
ug/kg - micrograms per kilogram
PCB - polychlorinated biphenyl
RL - reporting limit

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Table 3. Whole Body Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Aluminum	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	13.77	-	45.77	30.7967	16.0985	
Bluegill	Aluminum	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	25.07	-	42.94	34.7067	9.0173	
Bluegill	Aluminum	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	39.84	-	149.70	90.7125	54.0726	0.05 < p < 0.1
Bluegill	Aluminum	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	58.19	-	221.20	126.8633	84.4809	p < 0.05
Bluegill	Aluminum	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	32.71	-	45.07	37.4400	6.6708	
Bluegill	Aluminum	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	21.59	-	82.67	49.0438	24.5776	
Bluegill	Aluminum	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	54.97	-	453.40	189.1400	228.8650	0.05 < p < 0.1
Bluegill	Antimony	Inorganic	ER_R	Spring 2010	0	/	3	mg/kg		-		0.0144	0.0002	
Bluegill	Antimony	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0145	0.0005	
Bluegill	Antimony	Inorganic	ER_B	Spring 2010	0	/	4	mg/kg		-		0.0138	0.0005	
Bluegill	Antimony	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0143	0.0004	
Bluegill	Antimony	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0144	0.0001	
Bluegill	Antimony	Inorganic	CR_B	Spring 2010	0	/	8	mg/kg		-		0.0141	0.0006	
Bluegill	Antimony	Inorganic	CR_A	Spring 2010	1	/	3	mg/kg	0.02	-	0.02	0.0154	0.0015	
Bluegill	Arsenic	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.10	-	0.11	0.1090	0.0076	
Bluegill	Arsenic	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.15	-	0.17	0.1532	0.0107	0.05 < p < 0.1
Bluegill	Arsenic	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.26	-	0.35	0.3066	0.0428	p < 0.05
Bluegill	Arsenic	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.32	-	0.40	0.3466	0.0475	0.05 < p < 0.1
Bluegill	Arsenic	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.14	-	0.16	0.1451	0.0098	
Bluegill	Arsenic	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.23	-	0.31	0.2730	0.0271	p < 0.05
Bluegill	Arsenic	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.28	-	0.73	0.4380	0.2554	0.05 < p < 0.1
Bluegill	Barium	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	1.89	-	2.12	2.0260	0.1221	
Bluegill	Barium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	2.31	-	2.69	2.4627	0.2025	0.05 < p < 0.1
Bluegill	Barium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	1.88	-	3.73	2.7355	0.8027	
Bluegill	Barium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	1.96	-	4.04	3.0140	1.0410	
Bluegill	Barium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	1.19	-	1.35	1.2960	0.0936	
Bluegill	Barium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	1.16	-	2.18	1.7691	0.3569	
Bluegill	Barium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	1.85	-	6.53	3.5067	2.6200	0.05 < p < 0.1
Bluegill	Beryllium	Inorganic	ER_R	Spring 2010	0	/	3	mg/kg		-		0.0299	0.0003	
Bluegill	Beryllium	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0297	0.0003	
Bluegill	Beryllium	Inorganic	ER_B	Spring 2010	0	/	4	mg/kg		-		0.0279	0.0011	
Bluegill	Beryllium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0392	0.0189	
Bluegill	Beryllium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0292	0.0008	
Bluegill	Beryllium	Inorganic	CR_B	Spring 2010	0	/	8	mg/kg		-		0.0285	0.0017	
Bluegill	Beryllium	Inorganic	CR_A	Spring 2010	1	/	3	mg/kg	0.05	-	0.05	0.0361	0.0104	
Bluegill	Boron	Inorganic	ER_R	Spring 2010	0	/	3	mg/kg		-		0.4146	0.0045	
Bluegill	Boron	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.4193	0.0158	
Bluegill	Boron	Inorganic	ER_B	Spring 2010	0	/	4	mg/kg		-		0.3931	0.0080	
Bluegill	Boron	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.4073	0.0199	
Bluegill	Boron	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.4191	0.0023	
Bluegill	Boron	Inorganic	CR_B	Spring 2010	0	/	8	mg/kg		-		0.4013	0.0164	
Bluegill	Boron	Inorganic	CR_A	Spring 2010	1	/	3	mg/kg	0.50	-	0.50	0.4434	0.0524	
Bluegill	Cadmium	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.01	-	0.01	0.0084	0.0006	
Bluegill	Cadmium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.01	-	0.01	0.0127	0.0002	0.05 < p < 0.1
Bluegill	Cadmium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.01	-	0.02	0.0126	0.0025	0.05 < p < 0.1
Bluegill	Cadmium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.01	-	0.02	0.0152	0.0012	p < 0.05
Bluegill	Cadmium	Inorganic	CR_R	Spring 2010	2	/	3	mg/kg	0.01	-	0.01	0.0088	0.0013	
Bluegill	Cadmium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.01	-	0.02	0.0150	0.0036	p < 0.05
Bluegill	Cadmium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.02	-	0.04	0.0239	0.0130	p < 0.05
Bluegill	Chromium	Inorganic	ER_R	Spring 2010	2	/	3	mg/kg	0.13	-	0.85	0.3697	0.4168	
Bluegill	Chromium	Inorganic	ER_C	Spring 2010	2	/	3	mg/kg	0.13	-	0.18	0.1472	0.0279	
Bluegill	Chromium	Inorganic	ER_B	Spring 2010	2	/	4	mg/kg	0.22	-	0.35	0.2024	0.1085	
Bluegill	Chromium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.18	-	0.50	0.3593	0.1630	
Bluegill	Chromium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.14	-	0.19	0.1591	0.0259	
Bluegill	Chromium	Inorganic	CR_B	Spring 2010	5	/	8	mg/kg	0.14	-	0.30	0.1768	0.0653	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

ARCADIS

Table 3. Whole Body Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Chromium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.16	-	0.64	0.3268	0.2724	
Bluegill	Cobalt	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.04	-	0.05	0.0438	0.0074	
Bluegill	Cobalt	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.05	-	0.06	0.0549	0.0018	
Bluegill	Cobalt	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.04	-	0.12	0.0752	0.0374	
Bluegill	Cobalt	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.06	-	0.19	0.1200	0.0668	0.05 < p < 0.1
Bluegill	Cobalt	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.04	-	0.05	0.0426	0.0093	
Bluegill	Cobalt	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.03	-	0.08	0.0528	0.0187	
Bluegill	Cobalt	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.06	-	0.32	0.1464	0.1509	0.05 < p < 0.1
Bluegill	Copper	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.34	-	0.39	0.3608	0.0264	
Bluegill	Copper	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.39	-	0.51	0.4497	0.0575	
Bluegill	Copper	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.41	-	0.63	0.5398	0.0990	
Bluegill	Copper	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.57	-	0.67	0.6262	0.0540	
Bluegill	Copper	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.33	-	0.46	0.4042	0.0655	
Bluegill	Copper	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.45	-	2.11	0.8644	0.5470	p < 0.05
Bluegill	Copper	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.50	-	1.40	0.8519	0.4785	0.05 < p < 0.1
Bluegill	Lead	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.05	-	0.08	0.0584	0.0157	
Bluegill	Lead	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.04	-	0.21	0.1007	0.0949	
Bluegill	Lead	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.05	-	0.20	0.1067	0.0682	
Bluegill	Lead	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.09	-	0.19	0.1465	0.0541	
Bluegill	Lead	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.05	-	0.07	0.0583	0.0078	
Bluegill	Lead	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.04	-	0.14	0.0868	0.0345	
Bluegill	Lead	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.09	-	0.48	0.2222	0.2241	0.05 < p < 0.1
Bluegill	Manganese	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	28.73	-	33.12	30.9467	2.1953	
Bluegill	Manganese	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	26.22	-	38.87	33.1967	6.4249	
Bluegill	Manganese	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	18.99	-	27.78	23.6725	4.5491	
Bluegill	Manganese	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	17.02	-	36.57	24.4633	10.5764	
Bluegill	Manganese	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	13.11	-	15.36	13.9200	1.2503	
Bluegill	Manganese	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	12.28	-	21.96	16.8150	3.7029	
Bluegill	Manganese	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	11.65	-	36.64	21.1467	13.5313	
Bluegill	Mercury	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.03	-	0.03	0.0330	0.0017	
Bluegill	Mercury	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.03	-	0.03	0.0297	0.0003	
Bluegill	Mercury	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.02	-	0.03	0.0211	0.0037	
Bluegill	Mercury	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.02	-	0.02	0.0212	0.0044	
Bluegill	Mercury	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.03	-	0.05	0.0412	0.0092	
Bluegill	Mercury	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.00	-	0.03	0.0211	0.0083	
Bluegill	Mercury	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.03	-	0.04	0.0331	0.0042	
Bluegill	Molybdenum	Inorganic	ER_R	Spring 2010	1	/	3	mg/kg	0.04	-	0.04	0.0369	0.0040	
Bluegill	Molybdenum	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0351	0.0015	
Bluegill	Molybdenum	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.05	-	0.06	0.0546	0.0050	p < 0.05
Bluegill	Molybdenum	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.05	-	0.08	0.0670	0.0155	p < 0.05
Bluegill	Molybdenum	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0352	0.0004	
Bluegill	Molybdenum	Inorganic	CR_B	Spring 2010	4	/	8	mg/kg	0.04	-	0.06	0.0557	0.0146	p < 0.05
Bluegill	Molybdenum	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0910	0.0186	
Bluegill	Nickel	Inorganic	ER_R	Spring 2010	1	/	3	mg/kg	0.11	-	0.11	0.1029	0.0088	
Bluegill	Nickel	Inorganic	ER_C	Spring 2010	1	/	3	mg/kg	0.11	-	0.11	0.1029	0.0050	
Bluegill	Nickel	Inorganic	ER_B	Spring 2010	3	/	4	mg/kg	0.18	-	0.51	0.2467	0.1829	
Bluegill	Nickel	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.12	-	0.29	0.1930	0.0863	
Bluegill	Nickel	Inorganic	CR_R	Spring 2010	1	/	3	mg/kg	0.16	-	0.16	0.1193	0.0377	
Bluegill	Nickel	Inorganic	CR_B	Spring 2010	5	/	8	mg/kg	0.10	-	0.41	0.1467	0.1088	
Bluegill	Nickel	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.11	-	0.60	0.2759	0.2768	
Bluegill	Selenium	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.36	-	0.37	0.3685	0.0040	
Bluegill	Selenium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.41	-	0.44	0.4268	0.0117	0.05 < p < 0.1
Bluegill	Selenium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.58	-	0.91	0.7243	0.1617	p < 0.05
Bluegill	Selenium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.71	-	1.03	0.8885	0.1599	0.05 < p < 0.1
Bluegill	Selenium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.53	-	0.62	0.5765	0.0469	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 3. Whole Body Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Selenium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.64	-	0.93	0.7621	0.1276	p < 0.05
Bluegill	Selenium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.77	-	0.92	0.8268	0.0788	0.05 < p < 0.1
Bluegill	Silver	Inorganic	ER_R	Spring 2010	0	/	3	mg/kg		-		0.0029	0.0001	
Bluegill	Silver	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0029	0.0002	
Bluegill	Silver	Inorganic	ER_B	Spring 2010	0	/	4	mg/kg		-		0.0028	0.0001	
Bluegill	Silver	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0029	0.0001	
Bluegill	Silver	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0028	0.0001	
Bluegill	Silver	Inorganic	CR_B	Spring 2010	0	/	8	mg/kg		-		0.0028	0.0001	
Bluegill	Silver	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0029	0.0001	
Bluegill	Strontium	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	12.98	-	13.77	13.3700	0.3951	
Bluegill	Strontium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	14.40	-	16.08	15.4133	0.8920	
Bluegill	Strontium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	13.80	-	23.87	17.3000	4.5059	
Bluegill	Strontium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	15.59	-	20.07	17.8567	2.2405	
Bluegill	Strontium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	11.73	-	13.68	12.6067	0.9898	
Bluegill	Strontium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	10.26	-	18.98	14.3963	3.7098	
Bluegill	Strontium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	15.87	-	20.83	18.7600	2.5797	p < 0.05
Bluegill	Thallium	Inorganic	ER_R	Spring 2010	0	/	3	mg/kg		-		0.0137	0.0002	
Bluegill	Thallium	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0145	0.0013	
Bluegill	Thallium	Inorganic	ER_B	Spring 2010	0	/	4	mg/kg		-		0.0206	0.0089	
Bluegill	Thallium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0326	0.0100	
Bluegill	Thallium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0148	0.0019	
Bluegill	Thallium	Inorganic	CR_B	Spring 2010	0	/	8	mg/kg		-		0.0261	0.0057	
Bluegill	Thallium	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0407	0.0190	
Bluegill	Vanadium	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	0.05	-	0.08	0.0700	0.0192	
Bluegill	Vanadium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.08	-	0.10	0.0922	0.0108	
Bluegill	Vanadium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.20	-	0.48	0.3376	0.1453	p < 0.05
Bluegill	Vanadium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.23	-	0.62	0.4129	0.1988	p < 0.05
Bluegill	Vanadium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.06	-	0.12	0.0968	0.0291	
Bluegill	Vanadium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.09	-	0.29	0.2026	0.0724	0.05 < p < 0.1
Bluegill	Vanadium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.26	-	1.31	0.6138	0.5986	p < 0.05
Bluegill	Zinc	Inorganic	ER_R	Spring 2010	3	/	3	mg/kg	32.20	-	34.95	33.4033	1.4068	
Bluegill	Zinc	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	30.82	-	35.88	34.0600	2.8130	
Bluegill	Zinc	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	26.68	-	32.40	30.8600	2.7913	
Bluegill	Zinc	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	35.88	-	44.75	39.4400	4.6868	
Bluegill	Zinc	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	29.00	-	33.44	31.7667	2.4135	
Bluegill	Zinc	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	27.18	-	47.91	36.0625	7.9441	
Bluegill	Zinc	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	39.44	-	46.49	43.4633	3.6291	p < 0.05
Gizzard Shad	Aluminum	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	161.00	-	429.20	328.3333	101.2155	
Gizzard Shad	Aluminum	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	88.62	-	127.20	112.8067	21.0722	
Gizzard Shad	Aluminum	Inorganic	ER_C	Fall 2010	2	/	3	mg/kg	5.80	-	7.50	5.8000	1.7000	
Gizzard Shad	Aluminum	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	200.00	-	595.70	390.4667	198.2629	
Gizzard Shad	Aluminum	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	9.50	-	75.60	31.6000	38.1052	
Gizzard Shad	Aluminum	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	360.40	-	423.60	381.5667	36.4022	
Gizzard Shad	Aluminum	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	78.07	-	138.70	103.3500	31.5445	
Gizzard Shad	Aluminum	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	23.80	-	44.30	36.1333	10.8666	
Gizzard Shad	Aluminum	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	227.00	-	405.60	331.0333	92.8747	p < 0.05
Gizzard Shad	Aluminum	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	132.00	-	147.00	139.6667	7.5056	p < 0.05
Gizzard Shad	Aluminum	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	101.00	-	244.40	174.5667	71.7729	p < 0.05
Gizzard Shad	Aluminum	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	359.00	-	661.00	515.6667	151.3186	p < 0.05
Gizzard Shad	Antimony	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0144	0.0002	
Gizzard Shad	Antimony	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0129	0.0008	
Gizzard Shad	Antimony	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.0140	0.0010	
Gizzard Shad	Antimony	Inorganic	ER_B	Spring 2010	2	/	3	mg/kg	0.02	-	0.03	0.0211	0.0067	
Gizzard Shad	Antimony	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0143	0.0006	
Gizzard Shad	Antimony	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0139	0.0003	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
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ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 3. Whole Body Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Antimony	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0142	0.0005	
Gizzard Shad	Antimony	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.0143	0.0006	
Gizzard Shad	Antimony	Inorganic	CR_B	Spring 2010	2	/	3	mg/kg	0.02	-	0.02	0.0178	0.0039	
Gizzard Shad	Antimony	Inorganic	CR_B	Fall 2010	0	/	3	mg/kg		-		0.0133	0.0006	
Gizzard Shad	Antimony	Inorganic	CR_A	Spring 2010	1	/	3	mg/kg	0.02	-	0.02	0.0151	0.0004	
Gizzard Shad	Antimony	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.01	-	0.02	0.0190	0.0046	
Gizzard Shad	Arsenic	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.26	-	0.35	0.3064	0.0301	
Gizzard Shad	Arsenic	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.25	-	0.36	0.2992	0.0533	
Gizzard Shad	Arsenic	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	0.37	-	0.40	0.3800	0.0173	
Gizzard Shad	Arsenic	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.45	-	0.99	0.7362	0.2734	$p < 0.05$
Gizzard Shad	Arsenic	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.43	-	0.48	0.4533	0.0252	$p < 0.05$
Gizzard Shad	Arsenic	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.42	-	0.45	0.4358	0.0141	$0.05 < p < 0.1$
Gizzard Shad	Arsenic	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.39	-	0.44	0.4110	0.0289	
Gizzard Shad	Arsenic	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	0.43	-	0.44	0.4367	0.0058	
Gizzard Shad	Arsenic	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.46	-	0.81	0.6467	0.1736	$p < 0.05$
Gizzard Shad	Arsenic	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.59	-	0.63	0.6067	0.0208	$p < 0.05$
Gizzard Shad	Arsenic	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.37	-	0.55	0.4676	0.0941	$p < 0.05$
Gizzard Shad	Arsenic	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.79	-	1.10	0.9633	0.1582	$p < 0.05$
Gizzard Shad	Barium	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	4.36	-	10.64	7.4822	2.3781	
Gizzard Shad	Barium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	3.31	-	3.82	3.6230	0.2762	
Gizzard Shad	Barium	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	2.30	-	2.70	2.5667	0.2309	
Gizzard Shad	Barium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	6.24	-	9.98	8.2080	1.8762	
Gizzard Shad	Barium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	2.90	-	3.40	3.2000	0.2646	
Gizzard Shad	Barium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	6.36	-	6.91	6.6673	0.2813	
Gizzard Shad	Barium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	3.69	-	4.56	4.0117	0.4753	
Gizzard Shad	Barium	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	2.50	-	3.40	2.9000	0.4583	
Gizzard Shad	Barium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	5.27	-	6.68	5.7667	0.7936	$p < 0.05$
Gizzard Shad	Barium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	3.70	-	4.20	3.9667	0.2517	$p < 0.05$
Gizzard Shad	Barium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	4.15	-	6.15	5.0070	1.0295	$p < 0.05$
Gizzard Shad	Barium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	6.80	-	9.30	8.4000	1.3892	$p < 0.05$
Gizzard Shad	Beryllium	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0445	0.0173	
Gizzard Shad	Beryllium	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0345	0.0139	
Gizzard Shad	Beryllium	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.0573	0.0035	
Gizzard Shad	Beryllium	Inorganic	ER_B	Spring 2010	2	/	3	mg/kg	0.04	-	0.06	0.0406	0.0150	
Gizzard Shad	Beryllium	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0600	0.0020	
Gizzard Shad	Beryllium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0286	0.0013	
Gizzard Shad	Beryllium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0284	0.0012	
Gizzard Shad	Beryllium	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.0290	0.0010	
Gizzard Shad	Beryllium	Inorganic	CR_B	Spring 2010	2	/	3	mg/kg	0.03	-	0.03	0.0300	0.0035	
Gizzard Shad	Beryllium	Inorganic	CR_B	Fall 2010	0	/	3	mg/kg		-		0.0277	0.0012	
Gizzard Shad	Beryllium	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.1015	0.0348	
Gizzard Shad	Beryllium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.04	-	0.06	0.0477	0.0117	
Gizzard Shad	Boron	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		1.1622	0.8090	
Gizzard Shad	Boron	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.4899	0.1921	
Gizzard Shad	Boron	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.3967	0.0252	
Gizzard Shad	Boron	Inorganic	ER_B	Spring 2010	2	/	3	mg/kg	0.49	-	0.51	0.4645	0.0556	
Gizzard Shad	Boron	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.4133	0.0153	
Gizzard Shad	Boron	Inorganic	ER_A	Spring 2010	1	/	3	mg/kg	0.41	-	0.41	1.3632	0.8270	
Gizzard Shad	Boron	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.4111	0.0118	
Gizzard Shad	Boron	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.4133	0.0153	
Gizzard Shad	Boron	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.4019	0.0220	
Gizzard Shad	Boron	Inorganic	CR_B	Fall 2010	0	/	3	mg/kg		-		0.3867	0.0208	
Gizzard Shad	Boron	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.6967	0.2400	
Gizzard Shad	Boron	Inorganic	CR_A	Fall 2010	2	/	3	mg/kg	0.43	-	0.51	0.4433	0.0611	
Gizzard Shad	Cadmium	Inorganic	ER_R	Spring 2010	3	/	6	mg/kg	0.02	-	0.07	0.0276	0.0224	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 3. Whole Body Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Cadmium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.01	-	0.01	0.0119	0.0020	
Gizzard Shad	Cadmium	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.0150	0.0010	
Gizzard Shad	Cadmium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.02	-	0.03	0.0228	0.0035	
Gizzard Shad	Cadmium	Inorganic	ER_B	Fall 2010	1	/	3	mg/kg	0.01	-	0.01	0.0140	0.0017	
Gizzard Shad	Cadmium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0159	0.0009	
Gizzard Shad	Cadmium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.01	-	0.01	0.0130	0.0006	
Gizzard Shad	Cadmium	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	0.01	-	0.01	0.0103	0.0012	
Gizzard Shad	Cadmium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.01	-	0.02	0.0176	0.0062	
Gizzard Shad	Cadmium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.01	-	0.01	0.0120	0.0010	
Gizzard Shad	Cadmium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.02	-	0.02	0.0189	0.0031	p < 0.05
Gizzard Shad	Cadmium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.01	-	0.02	0.0133	0.0031	p < 0.05
Gizzard Shad	Chromium	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.59	-	1.63	1.1524	0.4306	
Gizzard Shad	Chromium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.34	-	0.44	0.4053	0.0541	
Gizzard Shad	Chromium	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.1200	0.0100	
Gizzard Shad	Chromium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.67	-	0.92	0.8022	0.1262	
Gizzard Shad	Chromium	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.1267	0.0058	
Gizzard Shad	Chromium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.74	-	1.27	0.9655	0.2724	
Gizzard Shad	Chromium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.18	-	0.43	0.2752	0.1348	
Gizzard Shad	Chromium	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.1267	0.0058	
Gizzard Shad	Chromium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.56	-	1.10	0.9180	0.3110	p < 0.05
Gizzard Shad	Chromium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.25	-	0.28	0.2667	0.0153	p < 0.05
Gizzard Shad	Chromium	Inorganic	CR_A	Spring 2010	2	/	3	mg/kg	0.38	-	0.39	0.3383	0.0750	p < 0.05
Gizzard Shad	Chromium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.60	-	1.00	0.8233	0.2040	p < 0.05
Gizzard Shad	Cobalt	Inorganic	ER_R	Spring 2010	4	/	6	mg/kg	0.30	-	0.45	0.3170	0.0922	
Gizzard Shad	Cobalt	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.11	-	0.14	0.1307	0.0166	
Gizzard Shad	Cobalt	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	0.05	-	0.05	0.0477	0.0025	
Gizzard Shad	Cobalt	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.21	-	0.51	0.3490	0.1490	
Gizzard Shad	Cobalt	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.05	-	0.07	0.0590	0.0135	
Gizzard Shad	Cobalt	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.32	-	0.37	0.3429	0.0210	
Gizzard Shad	Cobalt	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.09	-	0.13	0.1107	0.0172	
Gizzard Shad	Cobalt	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	0.07	-	0.08	0.0780	0.0050	
Gizzard Shad	Cobalt	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.19	-	0.42	0.3192	0.1151	p < 0.05
Gizzard Shad	Cobalt	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.15	-	0.17	0.1567	0.0115	p < 0.05
Gizzard Shad	Cobalt	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.11	-	0.18	0.1464	0.0361	p < 0.05
Gizzard Shad	Cobalt	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.28	-	0.44	0.3767	0.0850	p < 0.05
Gizzard Shad	Copper	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	1.14	-	9.38	2.9058	3.2425	
Gizzard Shad	Copper	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.93	-	1.00	0.9722	0.0353	
Gizzard Shad	Copper	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	1.00	-	1.70	1.3000	0.3606	
Gizzard Shad	Copper	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	1.27	-	2.01	1.6537	0.3706	
Gizzard Shad	Copper	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	1.40	-	1.70	1.5667	0.1528	
Gizzard Shad	Copper	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	1.19	-	1.29	1.2217	0.0592	
Gizzard Shad	Copper	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.84	-	2.10	1.3180	0.6815	
Gizzard Shad	Copper	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	1.30	-	2.20	1.7000	0.4583	
Gizzard Shad	Copper	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	1.24	-	2.15	1.8150	0.5012	
Gizzard Shad	Copper	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	1.60	-	2.10	1.8000	0.2646	
Gizzard Shad	Copper	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	1.24	-	1.55	1.3413	0.1798	
Gizzard Shad	Copper	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	2.30	-	3.20	2.8000	0.4583	
Gizzard Shad	Lead	Inorganic	ER_R	Spring 2010	5	/	6	mg/kg	0.35	-	0.93	0.5547	0.2626	
Gizzard Shad	Lead	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.15	-	0.17	0.1592	0.0091	
Gizzard Shad	Lead	Inorganic	ER_C	Fall 2010	2	/	3	mg/kg	0.05	-	0.05	0.0410	0.0115	
Gizzard Shad	Lead	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.29	-	0.64	0.4586	0.1776	
Gizzard Shad	Lead	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.03	-	0.09	0.0523	0.0344	
Gizzard Shad	Lead	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.36	-	0.43	0.3859	0.0384	
Gizzard Shad	Lead	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.12	-	0.24	0.1790	0.0581	
Gizzard Shad	Lead	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	0.06	-	0.10	0.0830	0.0207	

Notes:

CR_A - Clinch Reach A
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CR_R - Clinch River Reference Reach
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ER_R - Emory River Reference Reach
RL - reporting limit
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Table 3. Whole Body Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Lead	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.29	-	0.83	0.6346	0.2981	p < 0.05
Gizzard Shad	Lead	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.15	-	0.19	0.1700	0.0200	p < 0.05
Gizzard Shad	Lead	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.17	-	0.31	0.2505	0.0725	p < 0.05
Gizzard Shad	Lead	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.39	-	0.69	0.5733	0.1607	p < 0.05
Gizzard Shad	Manganese	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	43.80	-	95.25	55.6033	19.8204	
Gizzard Shad	Manganese	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	33.30	-	35.04	34.4433	0.9905	
Gizzard Shad	Manganese	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	21.60	-	26.60	24.7333	2.7301	
Gizzard Shad	Manganese	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	36.57	-	48.18	43.7367	6.2658	
Gizzard Shad	Manganese	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	25.00	-	32.40	28.4333	3.7287	
Gizzard Shad	Manganese	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	30.53	-	32.18	31.3667	0.8252	
Gizzard Shad	Manganese	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	37.56	-	43.04	39.8400	2.8535	
Gizzard Shad	Manganese	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	27.50	-	34.50	30.1000	3.8314	
Gizzard Shad	Manganese	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	32.81	-	60.58	47.2700	13.9207	
Gizzard Shad	Manganese	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	29.30	-	33.80	31.1333	2.3629	
Gizzard Shad	Manganese	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	32.29	-	33.88	33.2533	0.8468	
Gizzard Shad	Manganese	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	52.10	-	70.90	61.5667	9.4007	
Gizzard Shad	Mercury	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.01	-	0.02	0.0152	0.0025	
Gizzard Shad	Mercury	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.01	-	0.01	0.0133	0.0006	
Gizzard Shad	Mercury	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.0110	0.0010	
Gizzard Shad	Mercury	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.02	-	0.02	0.0196	0.0017	
Gizzard Shad	Mercury	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0117	0.0006	
Gizzard Shad	Mercury	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.01	-	0.02	0.0161	0.0036	
Gizzard Shad	Mercury	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.01	-	0.02	0.0196	0.0050	
Gizzard Shad	Mercury	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.0113	0.0006	
Gizzard Shad	Mercury	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.02	-	0.03	0.0237	0.0042	
Gizzard Shad	Mercury	Inorganic	CR_B	Fall 2010	1	/	3	mg/kg	0.01	-	0.01	0.0110	0.0010	
Gizzard Shad	Mercury	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.01	-	0.03	0.0205	0.0065	p < 0.05
Gizzard Shad	Mercury	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.02	-	0.03	0.0270	0.0070	p < 0.05
Gizzard Shad	Molybdenum	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0506	0.0112	
Gizzard Shad	Molybdenum	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0314	0.0018	
Gizzard Shad	Molybdenum	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.0340	0.0020	
Gizzard Shad	Molybdenum	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.04	-	0.06	0.0502	0.0128	
Gizzard Shad	Molybdenum	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0350	0.0010	
Gizzard Shad	Molybdenum	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0343	0.0003	
Gizzard Shad	Molybdenum	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0347	0.0012	
Gizzard Shad	Molybdenum	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.0350	0.0010	
Gizzard Shad	Molybdenum	Inorganic	CR_B	Spring 2010	2	/	3	mg/kg	0.04	-	0.05	0.0413	0.0077	
Gizzard Shad	Molybdenum	Inorganic	CR_B	Fall 2010	0	/	3	mg/kg		-		0.0330	0.0017	
Gizzard Shad	Molybdenum	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0361	0.0007	
Gizzard Shad	Molybdenum	Inorganic	CR_A	Fall 2010	2	/	3	mg/kg	0.04	-	0.04	0.0357	0.0031	
Gizzard Shad	Nickel	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.46	-	8.00	2.2582	2.9850	
Gizzard Shad	Nickel	Inorganic	ER_C	Spring 2010	2	/	3	mg/kg	0.20	-	0.22	0.1971	0.0264	
Gizzard Shad	Nickel	Inorganic	ER_C	Fall 2010	1	/	3	mg/kg	0.19	-	0.19	0.1260	0.0557	
Gizzard Shad	Nickel	Inorganic	ER_B	Spring 2010	2	/	3	mg/kg	0.97	-	1.44	0.9571	0.4844	
Gizzard Shad	Nickel	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0973	0.0031	
Gizzard Shad	Nickel	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.45	-	0.52	0.4716	0.0387	
Gizzard Shad	Nickel	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.13	-	0.93	0.4470	0.4274	
Gizzard Shad	Nickel	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.0967	0.0035	
Gizzard Shad	Nickel	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.34	-	1.53	0.8237	0.6276	
Gizzard Shad	Nickel	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.23	-	0.32	0.2667	0.0473	
Gizzard Shad	Nickel	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.27	-	0.34	0.3003	0.0339	0.05 < p < 0.1
Gizzard Shad	Nickel	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.50	-	2.70	1.3633	1.1739	0.05 < p < 0.1
Gizzard Shad	Selenium	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.48	-	0.57	0.5046	0.0337	
Gizzard Shad	Selenium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.40	-	0.48	0.4445	0.0399	
Gizzard Shad	Selenium	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	0.59	-	0.71	0.6500	0.0600	

Notes:

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Tennessee Valley Authority Kingston, Tennessee

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Gizzard Shad	Selenium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.49	-	0.62	0.5615	0.0652	0.05 < p < 0.1
Gizzard Shad	Selenium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.68	-	0.81	0.7400	0.0656	0.05 < p < 0.1
Gizzard Shad	Selenium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.40	-	0.58	0.4720	0.0973	
Gizzard Shad	Selenium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.62	-	0.74	0.6801	0.0575	
Gizzard Shad	Selenium	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	0.54	-	0.63	0.5933	0.0473	
Gizzard Shad	Selenium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.39	-	0.56	0.4826	0.0886	
Gizzard Shad	Selenium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.70	-	0.72	0.7100	0.0100	
Gizzard Shad	Selenium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.46	-	0.61	0.5385	0.0745	
Gizzard Shad	Selenium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.69	-	0.74	0.7233	0.0289	
Gizzard Shad	Silver	Inorganic	ER_R	Spring 2010	3	/	6	mg/kg	0.00	-	0.00	0.0081	0.0065	
Gizzard Shad	Silver	Inorganic	ER_C	Spring 2010	1	/	3	mg/kg	0.00	-	0.00	0.0027	0.0002	
Gizzard Shad	Silver	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.0028	0.0002	
Gizzard Shad	Silver	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.00	-	0.01	0.0048	0.0005	
Gizzard Shad	Silver	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0029	0.0001	
Gizzard Shad	Silver	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0029	0.0003	
Gizzard Shad	Silver	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0028	0.0001	
Gizzard Shad	Silver	Inorganic	CR_R	Fall 2010	1	/	3	mg/kg	0.00	-	0.00	0.0030	0.0002	
Gizzard Shad	Silver	Inorganic	CR_B	Spring 2010	1	/	3	mg/kg	0.00	-	0.00	0.0030	0.0006	
Gizzard Shad	Silver	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.00	-	0.00	0.0033	0.0002	
Gizzard Shad	Silver	Inorganic	CR_A	Spring 2010	2	/	3	mg/kg	0.00	-	0.00	0.0032	0.0003	0.05 < p < 0.1
Gizzard Shad	Silver	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.00	-	0.01	0.0052	0.0027	0.05 < p < 0.1
Gizzard Shad	Strontium	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	5.27	-	11.53	7.0683	2.2976	
Gizzard Shad	Strontium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	6.77	-	7.65	7.2580	0.4468	
Gizzard Shad	Strontium	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	6.30	-	7.50	6.9667	0.6110	
Gizzard Shad	Strontium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	8.34	-	10.52	9.4453	1.0903	
Gizzard Shad	Strontium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	8.40	-	9.80	9.1667	0.7095	
Gizzard Shad	Strontium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	10.09	-	11.36	10.6767	0.6405	
Gizzard Shad	Strontium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	8.46	-	11.64	9.6603	1.7272	
Gizzard Shad	Strontium	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	7.70	-	13.00	9.5333	3.0039	
Gizzard Shad	Strontium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	7.88	-	8.09	8.0120	0.1129	
Gizzard Shad	Strontium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	7.90	-	9.20	8.6000	0.6557	
Gizzard Shad	Strontium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	8.27	-	9.73	8.8450	0.7771	
Gizzard Shad	Strontium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	8.80	-	10.10	9.6000	0.7000	
Gizzard Shad	Thallium	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0138	0.0003	
Gizzard Shad	Thallium	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0148	0.0051	
Gizzard Shad	Thallium	Inorganic	ER_C	Fall 2010	0	/	3	mg/kg		-		0.0130	0.0010	
Gizzard Shad	Thallium	Inorganic	ER_B	Spring 2010	0	/	3	mg/kg		-		0.0375	0.0114	
Gizzard Shad	Thallium	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0207	0.0068	
Gizzard Shad	Thallium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0400	0.0057	
Gizzard Shad	Thallium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0141	0.0011	
Gizzard Shad	Thallium	Inorganic	CR_R	Fall 2010	0	/	3	mg/kg		-		0.0137	0.0006	
Gizzard Shad	Thallium	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.0284	0.0114	
Gizzard Shad	Thallium	Inorganic	CR_B	Fall 2010	0	/	3	mg/kg		-		0.0252	0.0013	
Gizzard Shad	Thallium	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0270	0.0060	
Gizzard Shad	Thallium	Inorganic	CR_A	Fall 2010	0	/	3	mg/kg		-		0.0310	0.0030	
Gizzard Shad	Vanadium	Inorganic	ER_R	Spring 2010	5	/	6	mg/kg	0.39	-	0.95	0.6258	0.2818	
Gizzard Shad	Vanadium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.16	-	0.24	0.2060	0.0423	
Gizzard Shad	Vanadium	Inorganic	ER_C	Fall 2010	2	/	3	mg/kg	0.06	-	0.06	0.0563	0.0086	
Gizzard Shad	Vanadium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.54	-	1.45	0.9929	0.4569	
Gizzard Shad	Vanadium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.07	-	0.16	0.1013	0.0509	
Gizzard Shad	Vanadium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.58	-	0.67	0.6144	0.0454	
Gizzard Shad	Vanadium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.21	-	0.32	0.2626	0.0562	
Gizzard Shad	Vanadium	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	0.09	-	0.13	0.1123	0.0225	
Gizzard Shad	Vanadium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.53	-	0.99	0.7676	0.2270	p < 0.05
Gizzard Shad	Vanadium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.40	-	0.44	0.4233	0.0208	p < 0.05

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 3. Whole Body Sample Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Vanadium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.25	-	0.65	0.4638	0.2017	p < 0.05
Gizzard Shad	Vanadium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.85	-	1.50	1.2167	0.3329	p < 0.05
Gizzard Shad	Zinc	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	15.24	-	22.88	17.5467	2.7654	
Gizzard Shad	Zinc	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	16.41	-	17.80	17.0667	0.6982	
Gizzard Shad	Zinc	Inorganic	ER_C	Fall 2010	3	/	3	mg/kg	20.90	-	21.50	21.2000	0.3000	
Gizzard Shad	Zinc	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	17.18	-	30.72	22.0633	7.5174	
Gizzard Shad	Zinc	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	22.70	-	24.50	23.7667	0.9452	
Gizzard Shad	Zinc	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	18.57	-	19.67	18.9967	0.5900	
Gizzard Shad	Zinc	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	17.41	-	20.22	18.7000	1.4190	
Gizzard Shad	Zinc	Inorganic	CR_R	Fall 2010	3	/	3	mg/kg	23.80	-	25.50	24.3667	0.9815	
Gizzard Shad	Zinc	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	12.20	-	18.28	16.1133	3.3955	
Gizzard Shad	Zinc	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	23.60	-	23.90	23.7667	0.1528	
Gizzard Shad	Zinc	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	16.29	-	19.56	18.3400	1.7860	
Gizzard Shad	Zinc	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	25.30	-	28.40	26.7333	1.5631	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	9.968	-	127.1	47.6413	49.9150	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		3.7667	0.1528	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	15.52	-	38.45	25.2400	11.8567	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	Fall 2010	2	/	5	mg/kg	8.1	-	9.2	5.7400	2.6913	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	58.83	-	133.1	100.3433	37.9014	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		3.9333	0.1528	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	47.96	-	63.43	56.8967	8.0101	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	Fall 2010	2	/	3	mg/kg	4.8	-	6.1	4.9000	1.1533	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		10.2613	8.4524	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	5.2	-	14.1	8.4000	3.1868	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	48.68	-	53.75	50.6133	2.7408	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	7.3	-	48.3	16.7500	15.6237	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	11.91	-	144.8	63.7133	71.1201	
Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	5.9	-	29.7	14.6167	10.8562	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0143	0.0005	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.0137	0.0006	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0138	0.0012	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0136	0.0009	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	Spring 2010	0	/	3	mg/kg		-		0.0138	0.0009	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0143	0.0006	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0139	0.0010	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	Fall 2010	0	/	3	mg/kg		-		0.0147	0.0006	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0137	0.0007	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0143	0.0005	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.0143	0.0006	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0142	0.0008	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0148	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0145	0.0005	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.1567	-	0.2892	0.2151	0.0491	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	0.2	-	0.25	0.2167	0.0289	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.1561	-	0.2294	0.2015	0.0397	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.13	-	0.38	0.2880	0.1126	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.1887	-	0.4237	0.2738	0.1302	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.34	-	0.37	0.3533	0.0153	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.2795	-	0.3052	0.2902	0.0134	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.28	-	0.35	0.3167	0.0351	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.2486	-	0.3136	0.2778	0.0330	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.24	-	0.38	0.3133	0.0528	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.325	-	0.3584	0.3470	0.0190	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.17	-	0.42	0.2517	0.0911	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.1957	-	0.3856	0.2763	0.0982	
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.24	-	0.41	0.3283	0.0627	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	2.948	-	5.153	3.7185	0.8452	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	2.1	-	2.6	2.3667	0.2517	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	2.796	-	3.896	3.4033	0.5589	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	2.8	-	4.4	3.3000	0.6403	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	4.151	-	5.246	4.8347	0.5961	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	3	-	3.3	3.1000	0.1732	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	4.386	-	5.276	4.9587	0.4969	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	2.4	-	3.3	2.7667	0.4726	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	Spring 2010	2	/	3	mg/kg	4.099	-	4.249	2.7970	2.3862	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	2.8	-	3.8	3.2333	0.3933	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	3.25	-	4.345	3.9140	0.5835	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	2.1	-	3.4	2.9333	0.4676	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	4.078	-	6.001	4.7623	1.0747	
Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	2.8	-	3.7	3.1167	0.3125	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0439	0.0169	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.0563	0.0021	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0463	0.0142	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0560	0.0031	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	Spring 2010	0	/	3	mg/kg		-		0.0283	0.0024	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0290	0.0010	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0283	0.0020	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	Fall 2010	0	/	3	mg/kg		-		0.0597	0.0032	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0278	0.0014	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0288	0.0013	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.0572	0.0020	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0340	0.0123	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.1224	0.0016	
Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0599	0.0019	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		1.1580	0.8202	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.3900	0.0173	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.6435	0.1969	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.3880	0.0205	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	Spring 2010	1	/	3	mg/kg	0.3971	-	0.3971	0.3993	0.0214	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.4067	0.0115	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		1.7980	0.1561	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	Fall 2010	0	/	3	mg/kg		-		0.4133	0.0208	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.3906	0.0141	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.4067	0.0151	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.8233	0.0225	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.4100	0.0110	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.8535	0.0094	
Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.4167	0.0121	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	Spring 2010	2	/	6	mg/kg	0.008435	-	0.009847	0.0095	0.0033	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.0072	0.0003	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	Spring 2010	2	/	3	mg/kg	0.008126	-	0.008621	0.0101	0.0030	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0116	0.0043	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.009768	-	0.01359	0.0117	0.0019	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0075	0.0003	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

ARCADIS

Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0091	0.0002	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	Fall 2010	1	/	3	mg/kg	0.023	-	0.023	0.0126	0.0090	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0072	0.0005	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	Fall 2010	1	/	6	mg/kg	0.011	-	0.011	0.0080	0.0015	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.0152	0.0004	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0088	0.0031	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.008621	-	0.01856	0.0120	0.0057	
Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	Fall 2010	1	/	6	mg/kg	0.011	-	0.011	0.0146	0.0018	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	Spring 2010	3	/	6	mg/kg	0.1832	-	0.4809	0.2172	0.1405	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.1167	0.0058	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	Spring 2010	2	/	3	mg/kg	0.2563	-	0.2629	0.2469	0.0223	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.1180	0.0084	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.2442	-	0.3344	0.2895	0.0451	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.1233	0.0058	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.1897	-	0.2365	0.2088	0.0246	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	Fall 2010	0	/	3	mg/kg		-		0.1267	0.0058	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.1202	0.0062	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.1233	0.0052	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.2496	0.0068	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.1267	0.0052	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	Spring 2010	1	/	3	mg/kg	0.3615	-	0.3615	0.2959	0.0572	
Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.1267	0.0052	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	Spring 2010	3	/	6	mg/kg	0.06507	-	0.126	0.0724	0.0360	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	0.032	-	0.038	0.0357	0.0032	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.04427	-	0.07223	0.0564	0.0144	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.036	-	0.052	0.0414	0.0065	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.0888	-	0.1484	0.1207	0.0300	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.041	-	0.045	0.0433	0.0021	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0892	0.0068	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.048	-	0.051	0.0490	0.0017	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	Spring 2010	2	/	3	mg/kg	0.0448	-	0.04746	0.0352	0.0190	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.045	-	0.06	0.0510	0.0055	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.066	-	0.0768	0.0718	0.0054	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.036	-	0.058	0.0472	0.0085	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.03728	-	0.1277	0.0730	0.0481	
Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.04	-	0.059	0.0483	0.0065	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.6266	-	0.9881	0.7917	0.1429	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	0.51	-	6.3	2.6033	3.2108	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.7409	-	0.9087	0.8295	0.0843	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.54	-	2.1	1.0100	0.6327	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.6882	-	1.129	0.9254	0.2223	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.79	-	1.3	1.0133	0.2608	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.6976	-	0.814	0.7619	0.0591	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.58	-	12.2	4.5233	6.6490	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.339	-	0.7232	0.5930	0.2200	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.63	-	0.98	0.8217	0.1441	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.768	-	1.025	0.9277	0.1394	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.69	-	2.1	1.0533	0.5325	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.699	-	1.542	1.0470	0.4403	
Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.61	-	1.9	1.2150	0.4528	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	Spring 2010	3	/	6	mg/kg	0.08676	-	0.2244	0.1101	0.0835	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	0.039	-	0.045	0.0417	0.0031	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.05825	-	0.09087	0.0728	0.0166	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.038	-	0.059	0.0498	0.0079	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.1021	-	0.1806	0.1528	0.0439	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.033	-	0.061	0.0430	0.0156	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.1067	0.0031	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.045	-	0.54	0.2103	0.2855	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	Spring 2010	2	/	3	mg/kg	0.0678	-	0.06944	0.0548	0.0240	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.049	-	0.089	0.0637	0.0148	

Notes:

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ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.125	-	0.1434	0.1335	0.0093	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.051	-	0.15	0.0773	0.0369	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.07456	-	0.2193	0.1340	0.0758	
Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.043	-	0.088	0.0577	0.0161	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	24.82	-	37.1	31.5183	4.4704	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	19.5	-	25.3	21.6333	3.1896	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	27.26	-	35.37	31.2833	4.0554	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	27.4	-	29.3	28.2200	0.8643	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	31.75	-	37.69	34.0833	3.1681	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	31.1	-	33.6	32.6667	1.3650	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	20.99	-	41.28	28.6767	11.0023	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	22.9	-	27	24.3333	2.3116	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.2486	-	40.77	26.7795	22.9879	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	28	-	36.1	33.1167	2.8202	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	31	-	41.8	37.0667	5.5221	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	17.2	-	32.6	23.2667	5.5331	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	29.88	-	35.78	32.9167	2.9538	
Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	22.4	-	41.1	31.6000	6.1686	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	Spring 2010	4	/	6	mg/kg	0.01205	-	0.01695	0.0134	0.0026	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	0.012	-	0.015	0.0133	0.0015	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.01072	-	0.01398	0.0128	0.0018	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	Fall 2010	2	/	5	mg/kg	0.012	-	0.013	0.0116	0.0011	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.01516	-	0.01931	0.0166	0.0023	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0113	0.0006	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	Spring 2010	2	/	3	mg/kg	0.01134	-	0.01376	0.0122	0.0014	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.013	-	0.016	0.0143	0.0015	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.01366	-	0.04068	0.0235	0.0150	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	Fall 2010	3	/	6	mg/kg	0.011	-	0.018	0.0127	0.0027	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	Spring 2010	2	/	3	mg/kg	0.01225	-	0.01485	0.0130	0.0017	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	Fall 2010	4	/	6	mg/kg	0.012	-	0.014	0.0127	0.0012	

Notes:

CR_A - Clinch Reach A
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CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	Spring 2010	2	/	3	mg/kg	0.004579	-	0.01508	0.0105	0.0054	
Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	Fall 2010	2	/	6	mg/kg	0.012	-	0.012	0.0118	0.0004	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0356	0.0020	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.0333	0.0012	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0329	0.0024	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0330	0.0019	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	Spring 2010	1	/	3	mg/kg	0.03344	-	0.03344	0.0334	0.0022	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0347	0.0012	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0341	0.0032	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	Fall 2010	0	/	3	mg/kg		-		0.0350	0.0017	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0338	0.0024	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0345	0.0012	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.0347	0.0019	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0348	0.0012	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0365	0.0007	
Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0353	0.0008	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.1253	-	0.2519	0.1677	0.0508	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	Fall 2010	1	/	3	mg/kg	0.25	-	0.25	0.1463	0.0898	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	Spring 2010	1	/	3	mg/kg	0.219	-	0.219	0.1918	0.0249	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0914	0.0047	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	Spring 2010	0	/	3	mg/kg		-		0.2071	0.0697	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0957	0.0038	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.1373	-	1.254	0.5218	0.6343	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	Fall 2010	1	/	3	mg/kg	2.4	-	2.4	0.8640	1.3302	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0924	0.0049	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0952	0.0034	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.1924	0.0074	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	Fall 2010	1	/	6	mg/kg	0.17	-	0.17	0.1082	0.0304	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	Spring 2010	1	/	3	mg/kg	0.2892	-	0.2892	0.2307	0.0506	
Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	Fall 2010	3	/	6	mg/kg	0.12	-	0.17	0.1222	0.0312	

Notes:

CR_A - Clinch Reach A
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ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

ARCADIS

Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	0.3944	-	0.4351	0.4227	0.0181	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	0.38	-	0.46	0.4067	0.0462	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.3961	-	0.4063	0.3995	0.0059	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.49	-	0.64	0.5820	0.0614	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.4218	-	0.5434	0.4778	0.0614	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.54	-	0.56	0.5533	0.0115	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.3655	-	0.44	0.3993	0.0377	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.4	-	0.78	0.5433	0.2065	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.448	-	0.5198	0.4733	0.0403	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.47	-	0.65	0.5267	0.0635	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.384	-	0.44	0.4080	0.0288	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.4	-	0.59	0.4983	0.0808	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.3961	-	0.7471	0.5161	0.2001	
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.45	-	0.63	0.5467	0.0677	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.0027	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0028	0.0002	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0027	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	Spring 2010	0	/	3	mg/kg		-		0.0028	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0028	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0028	0.0002	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	Fall 2010	1	/	3	mg/kg	0.0031	-	0.0031	0.0029	0.0002	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0028	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0028	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.0029	0.0002	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0029	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0029	0.0001	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	6.796	-	9.504	8.2150	1.1468	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	5.3	-	8.2	6.7000	1.4526	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	7.223	-	11.81	9.2103	2.3540	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	7.6	-	10.7	8.7200	1.2276	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	9.05	-	9.768	9.3650	0.3670	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	8.3	-	9.8	9.2667	0.8386	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	11.78	-	13.52	12.9000	0.9718	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	7.9	-	9.6	8.5000	0.9539	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	0.08136	-	10.91	7.2105	6.1755	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	7.9	-	12.5	9.9000	1.6637	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	8.45	-	11.91	10.3033	1.7431	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	6.1	-	11.2	8.1667	1.7896	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	9.972	-	10.46	10.2073	0.2445	
Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	6.8	-	10.1	8.2333	1.1201	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	Spring 2010	0	/	6	mg/kg		-		0.0144	0.0016	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	Fall 2010	0	/	3	mg/kg		-		0.0127	0.0006	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	Spring 2010	0	/	3	mg/kg		-		0.0132	0.0010	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	Fall 2010	0	/	5	mg/kg		-		0.0128	0.0008	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	Spring 2010	0	/	3	mg/kg		-		0.0134	0.0008	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	Fall 2010	0	/	3	mg/kg		-		0.0133	0.0006	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0232	0.0037	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	Fall 2010	0	/	3	mg/kg		-		0.0150	0.0017	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	Spring 2010	0	/	3	mg/kg		-		0.0130	0.0007	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	Fall 2010	0	/	6	mg/kg		-		0.0133	0.0005	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	Spring 2010	0	/	3	mg/kg		-		0.0137	0.0004	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	Fall 2010	0	/	6	mg/kg		-		0.0182	0.0072	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	Spring 2010	0	/	3	mg/kg		-		0.0223	0.0043	
Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	Fall 2010	0	/	6	mg/kg		-		0.0148	0.0026	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	Spring 2010	3	/	6	mg/kg	0.1012	-	0.2977	0.1219	0.1041	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	Fall 2010	1	/	3	mg/kg	0.06	-	0.06	0.0487	0.0100	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	Spring 2010	1	/	3	mg/kg	0.1095	-	0.1095	0.1467	0.0329	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.06	-	0.1	0.0708	0.0165	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 4. Whole Body Without Gut or Gut Content Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.1332	-	0.3791	0.2544	0.1230	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.071	-	0.082	0.0767	0.0055	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	Spring 2010	0	/	3	mg/kg		-		0.0471	0.0031	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.046	-	0.093	0.0667	0.0240	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	Spring 2010	2	/	3	mg/kg	0.08064	-	0.08588	0.0698	0.0234	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	0.063	-	0.09	0.0763	0.0092	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.1331	-	0.2008	0.1621	0.0349	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.054	-	0.16	0.0943	0.0356	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	Spring 2010	1	/	3	mg/kg	0.4338	-	0.4338	0.2079	0.1956	
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.061	-	0.11	0.0778	0.0215	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	Spring 2010	6	/	6	mg/kg	13.47	-	18	15.6783	1.7856	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	Fall 2010	3	/	3	mg/kg	14.8	-	16	15.5667	0.6658	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	14.56	-	16.73	15.8733	1.1548	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	16.7	-	22.2	19.7800	2.3221	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	15.45	-	16.81	16.2333	0.7032	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	22.6	-	24.2	23.4667	0.8083	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	18.71	-	19.38	19.1000	0.3483	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	15.7	-	23.7	18.9333	4.2147	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	Spring 2010	3	/	3	mg/kg	10.55	-	18.64	15.7633	4.5229	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	Fall 2010	6	/	6	mg/kg	16.2	-	23	20.1500	2.9865	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	16.97	-	17.6	17.3167	0.3197	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	14.5	-	24	17.5833	3.3885	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	17.89	-	19.04	18.4300	0.5782	
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	17	-	30.2	23.2000	4.3795	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 5. Liver Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Liver	Aluminum	Inorganic	ER_R	2010	6	/	6	mg/kg	2.6	-	8.1	4.9	1.916246331	
Bluegill	Liver	Aluminum	Inorganic	ER_B	2010	3	/	3	mg/kg	4.5	-	5	4.733333333	0.251661148	
Bluegill	Liver	Aluminum	Inorganic	ER_A	2010	3	/	3	mg/kg	2.5	-	6.4	4.833333333	2.059935274	
Bluegill	Liver	Aluminum	Inorganic	CR_R	2010	3	/	3	mg/kg	3.3	-	5	4.3	0.888819442	
Bluegill	Liver	Aluminum	Inorganic	CR_A	2010	3	/	3	mg/kg	14	-	35	17.33333333	16.2583312	0.05 < p < 0.1
Bluegill	Liver	Antimony	Inorganic	ER_R	2010	3	/	6	mg/kg	0.0065	-	0.0089	0.233916667	0.275276235	
Bluegill	Liver	Antimony	Inorganic	ER_B	2010	3	/	3	mg/kg	0.0081	-	0.012	0.0107	0.002251666	
Bluegill	Liver	Antimony	Inorganic	ER_A	2010	3	/	3	mg/kg	0.0048	-	0.017	0.0116	0.006219325	
Bluegill	Liver	Antimony	Inorganic	CR_R	2010	3	/	3	mg/kg	0.0033	-	0.015	0.007433333	0.006562266	
Bluegill	Liver	Antimony	Inorganic	CR_A	2010	1	/	3	mg/kg	0.013	-	0.013	0.601	0.869674077	
Bluegill	Liver	Arsenic	Inorganic	ER_R	2010	6	/	6	mg/kg	0.078	-	0.28	0.163833333	0.080076006	
Bluegill	Liver	Arsenic	Inorganic	ER_B	2010	3	/	3	mg/kg	0.32	-	0.52	0.393333333	0.110151411	p < 0.05
Bluegill	Liver	Arsenic	Inorganic	ER_A	2010	3	/	3	mg/kg	0.31	-	0.44	0.353333333	0.075055535	0.05 < p < 0.1
Bluegill	Liver	Arsenic	Inorganic	CR_R	2010	3	/	3	mg/kg	0.11	-	0.25	0.196666667	0.075718778	
Bluegill	Liver	Arsenic	Inorganic	CR_A	2010	3	/	3	mg/kg	0.25	-	1.1	0.766666667	0.453688586	p < 0.05
Bluegill	Liver	Barium	Inorganic	ER_R	2010	3	/	6	mg/kg	0.011	-	0.035	0.244166667	0.265624861	
Bluegill	Liver	Barium	Inorganic	ER_B	2010	2	/	3	mg/kg	0.079	-	0.097	0.158666667	0.122728698	
Bluegill	Liver	Barium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.028	-	0.066	0.046	0.019078784	
Bluegill	Liver	Barium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.038	-	0.084	0.059333333	0.023180452	
Bluegill	Liver	Barium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.035	-	0.35	0.188333333	0.157665257	
Bluegill	Liver	Beryllium	Inorganic	ER_R	2010	0	/	6	mg/kg		-		0.196666667	0.070332543	
Bluegill	Liver	Beryllium	Inorganic	ER_B	2010	0	/	3	mg/kg		-		0.14	0.017320508	
Bluegill	Liver	Beryllium	Inorganic	ER_A	2010	0	/	3	mg/kg		-		0.156666667	0.02081666	
Bluegill	Liver	Beryllium	Inorganic	CR_R	2010	0	/	3	mg/kg		-		0.162333333	0.102109418	
Bluegill	Liver	Beryllium	Inorganic	CR_A	2010	0	/	3	mg/kg		-		0.357666667	0.377539843	
Bluegill	Liver	Boron	Inorganic	ER_R	2010	2	/	6	mg/kg	0.25	-	0.65	1.266666667	0.694022094	
Bluegill	Liver	Boron	Inorganic	ER_B	2010	2	/	3	mg/kg	0.2	-	0.21	0.536666667	0.574485277	
Bluegill	Liver	Boron	Inorganic	ER_A	2010	2	/	3	mg/kg	0.21	-	0.39	0.8	0.870689382	
Bluegill	Liver	Boron	Inorganic	CR_R	2010	2	/	3	mg/kg	0.16	-	0.47	1.143333333	1.44306387	
Bluegill	Liver	Boron	Inorganic	CR_A	2010	2	/	3	mg/kg	0.38	-	1.7	1.003333333	0.663048515	
Bluegill	Liver	Cadmium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.083	-	0.27	0.152166667	0.066122361	
Bluegill	Liver	Cadmium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.16	-	0.19	0.176666667	0.015275252	
Bluegill	Liver	Cadmium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.24	-	0.28	0.266666667	0.023094011	0.05 < p < 0.1
Bluegill	Liver	Cadmium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.11	-	0.2	0.146666667	0.047258156	
Bluegill	Liver	Cadmium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.14	-	0.44	0.336666667	0.170391706	0.05 < p < 0.1
Bluegill	Liver	Calcium	Inorganic	ER_R	2010	6	/	6	mg/kg	140	-	91	221.8333333	149.4127393	
Bluegill	Liver	Calcium	Inorganic	ER_B	2010	3	/	3	mg/kg	1500	-	69	673	741.1052557	
Bluegill	Liver	Calcium	Inorganic	ER_A	2010	3	/	3	mg/kg	130	-	85	138.3333333	57.95112884	
Bluegill	Liver	Calcium	Inorganic	CR_R	2010	3	/	3	mg/kg	280	-	850	536.6666667	289.194283	
Bluegill	Liver	Calcium	Inorganic	CR_A	2010	3	/	3	mg/kg	220	-	81	230.3333333	154.7589524	
Bluegill	Liver	Chromium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.03	-	0.094	0.061	0.024931907	
Bluegill	Liver	Chromium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.031	-	0.11	0.063	0.041581246	
Bluegill	Liver	Chromium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.038	-	0.058	0.048	0.01	
Bluegill	Liver	Chromium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.028	-	0.067	0.045666667	0.019756855	
Bluegill	Liver	Chromium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.037	-	0.27	0.134333333	0.121137663	
Bluegill	Liver	Cobalt	Inorganic	ER_R	2010	6	/	6	mg/kg	0.12	-	0.22	0.163333333	0.040824829	
Bluegill	Liver	Cobalt	Inorganic	ER_B	2010	3	/	3	mg/kg	0.098	-	0.21	0.159333333	0.056756791	
Bluegill	Liver	Cobalt	Inorganic	ER_A	2010	3	/	3	mg/kg	0.12	-	0.16	0.14	0.02	
Bluegill	Liver	Cobalt	Inorganic	CR_R	2010	3	/	3	mg/kg	0.091	-	0.15	0.127	0.031575307	
Bluegill	Liver	Cobalt	Inorganic	CR_A	2010	3	/	3	mg/kg	0.055	-	0.26	0.165	0.103319892	
Bluegill	Liver	Copper	Inorganic	ER_R	2010	6	/	6	mg/kg	1.4	-	2.2	1.666666667	0.301109061	
Bluegill	Liver	Copper	Inorganic	ER_B	2010	3	/	3	mg/kg	1.3	-	1.7	1.533333333	0.2081666	
Bluegill	Liver	Copper	Inorganic	ER_A	2010	3	/	3	mg/kg	1.4	-	1.7	1.5	0.173205081	
Bluegill	Liver	Copper	Inorganic	CR_R	2010	3	/	3	mg/kg	1.2	-	1.5	1.4	0.173205081	
Bluegill	Liver	Copper	Inorganic	CR_A	2010	3	/	3	mg/kg	1.6	-	1.7	1.633333333	0.057735027	
Bluegill	Liver	Iron	Inorganic	ER_R	2010	6	/	6	mg/kg	110	-	44	129	57.94825278	
Bluegill	Liver	Iron	Inorganic	ER_B	2010	3	/	3	mg/kg	29	-	68	50.33333333	19.75685535	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

ARCADIS

Table 5. Liver Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Liver	Iron	Inorganic	ER_A	2010	3	/	3	mg/kg	150	-	71	94	48.75448697	
Bluegill	Liver	Iron	Inorganic	CR_R	2010	3	/	3	mg/kg	110	-	76	98.66666667	19.62990915	
Bluegill	Liver	Iron	Inorganic	CR_A	2010	3	/	3	mg/kg	160	-	80	103	49.66890375	
Bluegill	Liver	Lead	Inorganic	ER_R	2010	6	/	6	mg/kg	0.0048	-	0.1	0.023966667	0.037369221	
Bluegill	Liver	Lead	Inorganic	ER_B	2010	3	/	3	mg/kg	0.0097	-	0.013	0.011233333	0.001662328	
Bluegill	Liver	Lead	Inorganic	ER_A	2010	3	/	3	mg/kg	0.0092	-	0.016	0.0124	0.003417601	
Bluegill	Liver	Lead	Inorganic	CR_R	2010	3	/	3	mg/kg	0.0064	-	0.012	0.0098	0.002986637	
Bluegill	Liver	Lead	Inorganic	CR_A	2010	3	/	3	mg/kg	0.0071	-	0.055	0.028033333	0.02451333	
Bluegill	Liver	Magnesium	Inorganic	ER_R	2010	6	/	6	mg/kg	290	-	530	358.3333333	92.6102946	
Bluegill	Liver	Magnesium	Inorganic	ER_B	2010	3	/	3	mg/kg	340	-	470	383.3333333	75.05553499	
Bluegill	Liver	Magnesium	Inorganic	ER_A	2010	3	/	3	mg/kg	320	-	330	323.3333333	5.773502692	
Bluegill	Liver	Magnesium	Inorganic	CR_R	2010	3	/	3	mg/kg	1100	-	550	696.6666667	353.6005279	
Bluegill	Liver	Magnesium	Inorganic	CR_A	2010	3	/	3	mg/kg	310	-	840	566.6666667	265.3927907	
Bluegill	Liver	Manganese	Inorganic	ER_R	2010	6	/	6	mg/kg	2.9	-	8.6	5.383333333	2.046867525	
Bluegill	Liver	Manganese	Inorganic	ER_B	2010	3	/	3	mg/kg	2.7	-	3.5	3.2	0.435889894	
Bluegill	Liver	Manganese	Inorganic	ER_A	2010	3	/	3	mg/kg	2.9	-	3.5	3.133333333	0.321455025	
Bluegill	Liver	Manganese	Inorganic	CR_R	2010	3	/	3	mg/kg	2.2	-	4.5	3.466666667	1.167618659	
Bluegill	Liver	Manganese	Inorganic	CR_A	2010	3	/	3	mg/kg	2.7	-	6.2	4.866666667	1.892969449	
Bluegill	Liver	Molybdenum	Inorganic	ER_R	2010	6	/	6	mg/kg	0.058	-	0.15	0.123	0.03283291	
Bluegill	Liver	Molybdenum	Inorganic	ER_B	2010	3	/	3	mg/kg	0.12	-	0.15	0.136666667	0.015275252	
Bluegill	Liver	Molybdenum	Inorganic	ER_A	2010	3	/	3	mg/kg	0.14	-	0.18	0.153333333	0.023094011	
Bluegill	Liver	Molybdenum	Inorganic	CR_R	2010	3	/	3	mg/kg	0.12	-	0.18	0.15	0.03	
Bluegill	Liver	Molybdenum	Inorganic	CR_A	2010	3	/	3	mg/kg	0.081	-	0.21	0.137	0.0661589	
Bluegill	Liver	Nickel	Inorganic	ER_R	2010	0	/	6	mg/kg		-		1.966666667	0.703325434	
Bluegill	Liver	Nickel	Inorganic	ER_B	2010	1	/	3	mg/kg	0.032	-	0.032	0.910666667	0.775590957	
Bluegill	Liver	Nickel	Inorganic	ER_A	2010	0	/	3	mg/kg		-		1.566666667	0.2081666	
Bluegill	Liver	Nickel	Inorganic	CR_R	2010	0	/	3	mg/kg		-		1.623333333	1.021094184	
Bluegill	Liver	Nickel	Inorganic	CR_A	2010	0	/	3	mg/kg		-		3.576666667	3.775398434	
Bluegill	Liver	Potassium	Inorganic	ER_R	2010	6	/	6	mg/kg	2300	-	3100	2850	308.2207001	
Bluegill	Liver	Potassium	Inorganic	ER_B	2010	3	/	3	mg/kg	2600	-	4200	3233.333333	850.4900548	
Bluegill	Liver	Potassium	Inorganic	ER_A	2010	3	/	3	mg/kg	3100	-	3600	3300	264.5751311	
Bluegill	Liver	Potassium	Inorganic	CR_R	2010	3	/	3	mg/kg	2200	-	2800	2566.666667	321.4550254	
Bluegill	Liver	Potassium	Inorganic	CR_A	2010	3	/	3	mg/kg	2900	-	3000	2933.333333	57.73502692	
Bluegill	Liver	Selenium	Inorganic	ER_R	2010	6	/	6	mg/kg	1	-	1.8	1.416666667	0.306050105	
Bluegill	Liver	Selenium	Inorganic	ER_B	2010	3	/	3	mg/kg	1.9	-	2.9	2.366666667	0.503322296	p < 0.05
Bluegill	Liver	Selenium	Inorganic	ER_A	2010	3	/	3	mg/kg	1.7	-	2.5	2	0.435889894	p < 0.05
Bluegill	Liver	Selenium	Inorganic	CR_R	2010	3	/	3	mg/kg	1.4	-	1.7	1.566666667	0.152752523	
Bluegill	Liver	Selenium	Inorganic	CR_A	2010	3	/	3	mg/kg	1.6	-	2.1	1.9	0.264575131	
Bluegill	Liver	Silver	Inorganic	ER_R	2010	3	/	6	mg/kg	0.0013	-	0.0016	0.1174	0.137629895	
Bluegill	Liver	Silver	Inorganic	ER_B	2010	2	/	3	mg/kg	0.0026	-	0.0094	0.054	0.083207932	
Bluegill	Liver	Silver	Inorganic	ER_A	2010	2	/	3	mg/kg	0.0011	-	0.0012	0.060766667	0.103259108	
Bluegill	Liver	Silver	Inorganic	CR_R	2010	0	/	3	mg/kg		-		0.162333333	0.102109418	
Bluegill	Liver	Silver	Inorganic	CR_A	2010	0	/	3	mg/kg		-		0.357666667	0.377539843	
Bluegill	Liver	Sodium	Inorganic	ER_R	2010	6	/	6	mg/kg	1300	-	900	820	284.3237591	
Bluegill	Liver	Sodium	Inorganic	ER_B	2010	3	/	3	mg/kg	1100	-	900	913.3333333	180.3699901	
Bluegill	Liver	Sodium	Inorganic	ER_A	2010	3	/	3	mg/kg	540	-	570	550	17.32050808	
Bluegill	Liver	Sodium	Inorganic	CR_R	2010	3	/	3	mg/kg	1100	-	960	990	98.48857802	
Bluegill	Liver	Sodium	Inorganic	CR_A	2010	3	/	3	mg/kg	1100	-	840	910	166.4331698	
Bluegill	Liver	Thallium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.015	-	0.042	0.026666667	0.008914408	
Bluegill	Liver	Thallium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.064	-	0.13	0.104666667	0.035571524	p < 0.05
Bluegill	Liver	Thallium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.072	-	0.09	0.080333333	0.009073772	p < 0.05
Bluegill	Liver	Thallium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.019	-	0.035	0.025	0.008717798	
Bluegill	Liver	Thallium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.082	-	0.098	0.092666667	0.009237604	p < 0.05
Bluegill	Liver	Vanadium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.065	-	0.22	0.135833333	0.062001344	
Bluegill	Liver	Vanadium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.18	-	0.24	0.22	0.034641016	
Bluegill	Liver	Vanadium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.035	-	0.25	0.135	0.108282039	
Bluegill	Liver	Vanadium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.077	-	0.099	0.089666667	0.011372481	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 5. Liver Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Liver	Vanadium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.21	-	0.82	0.463333333	0.31785741	p < 0.05
Bluegill	Liver	Zinc	Inorganic	ER_R	2010	6	/	6	mg/kg	19	-	22	20.16666667	0.98319208	
Bluegill	Liver	Zinc	Inorganic	ER_B	2010	3	/	3	mg/kg	18	-	32	23.33333333	7.571877794	
Bluegill	Liver	Zinc	Inorganic	ER_A	2010	3	/	3	mg/kg	22	-	27	24.66666667	2.516611478	
Bluegill	Liver	Zinc	Inorganic	CR_R	2010	3	/	3	mg/kg	19	-	23	21	2	
Bluegill	Liver	Zinc	Inorganic	CR_A	2010	3	/	3	mg/kg	18	-	22	20.33333333	2.081665999	
Largemouth Bass	Liver	Aluminum	Inorganic	ER_R	2010	6	/	6	mg/kg	1	-	3.5	2	0.975704873	
Largemouth Bass	Liver	Aluminum	Inorganic	ER_B	2010	3	/	3	mg/kg	1.7	-	2.6	2.266666667	0.493288286	
Largemouth Bass	Liver	Aluminum	Inorganic	ER_A	2010	3	/	3	mg/kg	1.9	-	4.4	2.833333333	1.365039682	
Largemouth Bass	Liver	Aluminum	Inorganic	CR_R	2010	3	/	3	mg/kg	1.2	-	1.8	1.5	0.3	
Largemouth Bass	Liver	Aluminum	Inorganic	CR_A	2010	3	/	3	mg/kg	1.7	-	3.3	2.366666667	0.8326664	
Largemouth Bass	Liver	Antimony	Inorganic	ER_R	2010	4	/	6	mg/kg	0.0041	-	0.0081	0.039183333	0.050733556	
Largemouth Bass	Liver	Antimony	Inorganic	ER_B	2010	3	/	3	mg/kg	0.0025	-	0.0046	0.0034	0.001081665	
Largemouth Bass	Liver	Antimony	Inorganic	ER_A	2010	3	/	3	mg/kg	0.0017	-	0.003	0.0025	0.0007	
Largemouth Bass	Liver	Antimony	Inorganic	CR_R	2010	3	/	3	mg/kg	0.0011	-	0.0021	0.001566667	0.000503322	
Largemouth Bass	Liver	Antimony	Inorganic	CR_A	2010	3	/	3	mg/kg	0.0012	-	0.0019	0.001466667	0.000378594	
Largemouth Bass	Liver	Arsenic	Inorganic	ER_R	2010	6	/	6	mg/kg	0.12	-	0.4	0.233333333	0.102891529	
Largemouth Bass	Liver	Arsenic	Inorganic	ER_B	2010	3	/	3	mg/kg	0.19	-	0.21	0.196666667	0.011547005	
Largemouth Bass	Liver	Arsenic	Inorganic	ER_A	2010	3	/	3	mg/kg	0.21	-	0.37	0.293333333	0.080208063	
Largemouth Bass	Liver	Arsenic	Inorganic	CR_R	2010	3	/	3	mg/kg	0.16	-	0.43	0.33	0.147986486	
Largemouth Bass	Liver	Arsenic	Inorganic	CR_A	2010	3	/	3	mg/kg	0.2	-	0.49	0.39	0.164620776	
Largemouth Bass	Liver	Barium	Inorganic	ER_R	2010	5	/	6	mg/kg	0.0042	-	0.017	0.025	0.041896587	
Largemouth Bass	Liver	Barium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.013	-	0.082	0.037333333	0.038734137	
Largemouth Bass	Liver	Barium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.0063	-	0.012	0.008866667	0.002891943	
Largemouth Bass	Liver	Barium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.01	-	0.052	0.025	0.023430749	
Largemouth Bass	Liver	Barium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.012	-	0.022	0.018333333	0.005507571	
Largemouth Bass	Liver	Beryllium	Inorganic	ER_R	2010	0	/	6	mg/kg		-		0.050666667	0.001861899	
Largemouth Bass	Liver	Beryllium	Inorganic	ER_B	2010	0	/	3	mg/kg		-		0.05	0.003	
Largemouth Bass	Liver	Beryllium	Inorganic	ER_A	2010	0	/	3	mg/kg		-		0.047666667	0.001154701	
Largemouth Bass	Liver	Beryllium	Inorganic	CR_R	2010	0	/	3	mg/kg		-		0.049666667	0.002516611	
Largemouth Bass	Liver	Beryllium	Inorganic	CR_A	2010	0	/	3	mg/kg		-		0.05	0.001	
Largemouth Bass	Liver	Boron	Inorganic	ER_R	2010	2	/	6	mg/kg	0.096	-	0.14	0.374333333	0.199581228	
Largemouth Bass	Liver	Boron	Inorganic	ER_B	2010	1	/	3	mg/kg	0.073	-	0.073	0.357666667	0.248347203	
Largemouth Bass	Liver	Boron	Inorganic	ER_A	2010	2	/	3	mg/kg	0.068	-	0.087	0.215	0.238346387	
Largemouth Bass	Liver	Boron	Inorganic	CR_R	2010	1	/	3	mg/kg	0.1	-	0.1	0.363333333	0.229419557	
Largemouth Bass	Liver	Boron	Inorganic	CR_A	2010	3	/	3	mg/kg	0.092	-	0.21	0.147333333	0.059340823	
Largemouth Bass	Liver	Cadmium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.057	-	0.25	0.119333333	0.075877972	
Largemouth Bass	Liver	Cadmium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.12	-	0.15	0.133333333	0.015275252	
Largemouth Bass	Liver	Cadmium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.092	-	0.41	0.217333333	0.169355642	
Largemouth Bass	Liver	Cadmium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.064	-	0.11	0.088666667	0.023180452	
Largemouth Bass	Liver	Cadmium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.076	-	0.36	0.176333333	0.159286953	
Largemouth Bass	Liver	Calcium	Inorganic	ER_R	2010	6	/	6	mg/kg	180	-	99	99.66666667	41.96983043	
Largemouth Bass	Liver	Calcium	Inorganic	ER_B	2010	3	/	3	mg/kg	130	-	79	93	32.35737937	
Largemouth Bass	Liver	Calcium	Inorganic	ER_A	2010	3	/	3	mg/kg	59	-	81	70	11	
Largemouth Bass	Liver	Calcium	Inorganic	CR_R	2010	3	/	3	mg/kg	110	-	88	92	16.37070554	
Largemouth Bass	Liver	Calcium	Inorganic	CR_A	2010	3	/	3	mg/kg	270	-	79	133.6666667	118.837424	
Largemouth Bass	Liver	Chromium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.012	-	0.019	0.0155	0.002880972	
Largemouth Bass	Liver	Chromium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.0088	-	0.032	0.016933333	0.013061904	
Largemouth Bass	Liver	Chromium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.0073	-	0.017	0.011366667	0.005036202	
Largemouth Bass	Liver	Chromium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.013	-	0.027	0.018333333	0.007571878	
Largemouth Bass	Liver	Chromium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.018	-	0.023	0.020666667	0.002516611	
Largemouth Bass	Liver	Cobalt	Inorganic	ER_R	2010	6	/	6	mg/kg	0.056	-	0.23	0.1075	0.064960757	
Largemouth Bass	Liver	Cobalt	Inorganic	ER_B	2010	3	/	3	mg/kg	0.054	-	0.076	0.066333333	0.01123981	
Largemouth Bass	Liver	Cobalt	Inorganic	ER_A	2010	3	/	3	mg/kg	0.06	-	0.074	0.065333333	0.007571878	
Largemouth Bass	Liver	Cobalt	Inorganic	CR_R	2010	3	/	3	mg/kg	0.031	-	0.083	0.053333333	0.026764404	
Largemouth Bass	Liver	Cobalt	Inorganic	CR_A	2010	3	/	3	mg/kg	0.044	-	0.056	0.051666667	0.006658328	
Largemouth Bass	Liver	Copper	Inorganic	ER_R	2010	6	/	6	mg/kg	1.4	-	8.6	6.633333333	5.944296987	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 5. Liver Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Liver	Copper	Inorganic	ER_B	2010	3	/	3	mg/kg	1.3	-	4.8	2.7	1.852025918	
Largemouth Bass	Liver	Copper	Inorganic	ER_A	2010	3	/	3	mg/kg	2.1	-	7.5	4.233333333	2.872861524	
Largemouth Bass	Liver	Copper	Inorganic	CR_R	2010	3	/	3	mg/kg	1.4	-	3	2	0.871779789	
Largemouth Bass	Liver	Copper	Inorganic	CR_A	2010	3	/	3	mg/kg	4	-	9.3	7.166666667	2.797022226	0.05 < p < 0.1
Largemouth Bass	Liver	Iron	Inorganic	ER_R	2010	6	/	6	mg/kg	140	-	61	243.5	118.8002525	
Largemouth Bass	Liver	Iron	Inorganic	ER_B	2010	3	/	3	mg/kg	140	-	53	117.6666667	56.88878038	
Largemouth Bass	Liver	Iron	Inorganic	ER_A	2010	3	/	3	mg/kg	180	-	79	94.33333333	79.12226825	
Largemouth Bass	Liver	Iron	Inorganic	CR_R	2010	3	/	3	mg/kg	44	-	75	61.33333333	15.82192572	
Largemouth Bass	Liver	Iron	Inorganic	CR_A	2010	3	/	3	mg/kg	120	-	160	133.3333333	23.09401077	
Largemouth Bass	Liver	Lead	Inorganic	ER_R	2010	6	/	6	mg/kg	0.0025	-	0.0089	0.006066667	0.002353437	
Largemouth Bass	Liver	Lead	Inorganic	ER_B	2010	3	/	3	mg/kg	0.0053	-	0.013	0.008366667	0.004082075	
Largemouth Bass	Liver	Lead	Inorganic	ER_A	2010	3	/	3	mg/kg	0.0041	-	0.0056	0.0051	0.000866025	
Largemouth Bass	Liver	Lead	Inorganic	CR_R	2010	3	/	3	mg/kg	0.0046	-	0.0075	0.0059	0.001473092	
Largemouth Bass	Liver	Lead	Inorganic	CR_A	2010	3	/	3	mg/kg	0.0067	-	0.014	0.0098	0.003772267	
Largemouth Bass	Liver	Magnesium	Inorganic	ER_R	2010	6	/	6	mg/kg	200	-	300	248.3333333	37.10345896	
Largemouth Bass	Liver	Magnesium	Inorganic	ER_B	2010	3	/	3	mg/kg	240	-	260	246.6666667	11.54700538	
Largemouth Bass	Liver	Magnesium	Inorganic	ER_A	2010	3	/	3	mg/kg	230	-	250	240	10	
Largemouth Bass	Liver	Magnesium	Inorganic	CR_R	2010	3	/	3	mg/kg	170	-	290	243.3333333	64.29100507	
Largemouth Bass	Liver	Magnesium	Inorganic	CR_A	2010	3	/	3	mg/kg	230	-	260	243.3333333	15.27525232	
Largemouth Bass	Liver	Manganese	Inorganic	ER_R	2010	6	/	6	mg/kg	2	-	3.5	2.9	0.517687164	
Largemouth Bass	Liver	Manganese	Inorganic	ER_B	2010	3	/	3	mg/kg	2.6	-	3.9	3.266666667	0.65064071	
Largemouth Bass	Liver	Manganese	Inorganic	ER_A	2010	3	/	3	mg/kg	2.5	-	3.1	2.766666667	0.305505046	
Largemouth Bass	Liver	Manganese	Inorganic	CR_R	2010	3	/	3	mg/kg	1.6	-	2.8	2.2	0.6	
Largemouth Bass	Liver	Manganese	Inorganic	CR_A	2010	3	/	3	mg/kg	2.2	-	3	2.666666667	0.4163332	
Largemouth Bass	Liver	Molybdenum	Inorganic	ER_R	2010	6	/	6	mg/kg	0.12	-	0.34	0.175	0.08336666	
Largemouth Bass	Liver	Molybdenum	Inorganic	ER_B	2010	3	/	3	mg/kg	0.15	-	0.19	0.163333333	0.023094011	
Largemouth Bass	Liver	Molybdenum	Inorganic	ER_A	2010	3	/	3	mg/kg	0.14	-	0.19	0.17	0.026457513	
Largemouth Bass	Liver	Molybdenum	Inorganic	CR_R	2010	3	/	3	mg/kg	0.091	-	0.16	0.117	0.037509999	
Largemouth Bass	Liver	Molybdenum	Inorganic	CR_A	2010	3	/	3	mg/kg	0.17	-	0.26	0.21	0.045825757	p < 0.05
Largemouth Bass	Liver	Nickel	Inorganic	ER_R	2010	1	/	6	mg/kg	0.0079	-	0.0079	0.41965	0.202250179	
Largemouth Bass	Liver	Nickel	Inorganic	ER_B	2010	0	/	3	mg/kg		-		0.5	0.03	
Largemouth Bass	Liver	Nickel	Inorganic	ER_A	2010	0	/	3	mg/kg		-		0.476666667	0.011547005	
Largemouth Bass	Liver	Nickel	Inorganic	CR_R	2010	0	/	3	mg/kg		-		0.496666667	0.025166115	
Largemouth Bass	Liver	Nickel	Inorganic	CR_A	2010	0	/	3	mg/kg		-		0.5	0.01	
Largemouth Bass	Liver	Potassium	Inorganic	ER_R	2010	6	/	6	mg/kg	2600	-	3300	2850	350.7135583	
Largemouth Bass	Liver	Potassium	Inorganic	ER_B	2010	3	/	3	mg/kg	2800	-	3100	2900	173.2050808	
Largemouth Bass	Liver	Potassium	Inorganic	ER_A	2010	3	/	3	mg/kg	2700	-	3200	3000	264.5751311	
Largemouth Bass	Liver	Potassium	Inorganic	CR_R	2010	3	/	3	mg/kg	2300	-	3400	2766.666667	568.6240703	
Largemouth Bass	Liver	Potassium	Inorganic	CR_A	2010	3	/	3	mg/kg	2700	-	3400	3133.333333	378.5938897	
Largemouth Bass	Liver	Selenium	Inorganic	ER_R	2010	6	/	6	mg/kg	1.3	-	2.3	1.866666667	0.361478446	
Largemouth Bass	Liver	Selenium	Inorganic	ER_B	2010	3	/	3	mg/kg	1.6	-	2.1	1.833333333	0.251661148	
Largemouth Bass	Liver	Selenium	Inorganic	ER_A	2010	3	/	3	mg/kg	2	-	3.2	2.4	0.692820323	
Largemouth Bass	Liver	Selenium	Inorganic	CR_R	2010	3	/	3	mg/kg	1.5	-	1.6	1.566666667	0.057735027	
Largemouth Bass	Liver	Selenium	Inorganic	CR_A	2010	3	/	3	mg/kg	1.3	-	1.6	1.5	0.173205081	
Largemouth Bass	Liver	Silver	Inorganic	ER_R	2010	4	/	6	mg/kg	0.0098	-	0.08	0.0373	0.028949266	
Largemouth Bass	Liver	Silver	Inorganic	ER_B	2010	2	/	3	mg/kg	0.00091	-	0.0022	0.016703333	0.02624561	
Largemouth Bass	Liver	Silver	Inorganic	ER_A	2010	2	/	3	mg/kg	0.00087	-	0.0026	0.016823333	0.026148071	
Largemouth Bass	Liver	Silver	Inorganic	CR_R	2010	1	/	3	mg/kg	0.0019	-	0.0019	0.034633333	0.028365531	
Largemouth Bass	Liver	Silver	Inorganic	CR_A	2010	3	/	3	mg/kg	0.0012	-	0.006	0.004	0.002497999	
Largemouth Bass	Liver	Sodium	Inorganic	ER_R	2010	6	/	6	mg/kg	1000	-	920	883.3333333	194.9016846	
Largemouth Bass	Liver	Sodium	Inorganic	ER_B	2010	3	/	3	mg/kg	1100	-	910	1036.666667	109.6965511	
Largemouth Bass	Liver	Sodium	Inorganic	ER_A	2010	3	/	3	mg/kg	1000	-	820	973.3333333	141.8919777	
Largemouth Bass	Liver	Sodium	Inorganic	CR_R	2010	3	/	3	mg/kg	1000	-	840	1013.333333	180.3699901	
Largemouth Bass	Liver	Sodium	Inorganic	CR_A	2010	3	/	3	mg/kg	1300	-	840	966.6666667	291.4332399	
Largemouth Bass	Liver	Thallium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.02	-	0.047	0.0305	0.010212737	
Largemouth Bass	Liver	Thallium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.048	-	0.078	0.060333333	0.01569501	p < 0.05
Largemouth Bass	Liver	Thallium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.056	-	0.085	0.068333333	0.014977761	p < 0.05

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach

ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach

RL - reporting limit
mg/kg - milligrams per kilogram

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Table 5. Liver Data Presented by Analyte (2010 Events)

Tennessee Valley Authority **Kingston, Tennessee**

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Liver	Thallium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.022	-	0.056	0.042333333	0.017953644	
Largemouth Bass	Liver	Thallium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.022	-	0.058	0.038333333	0.018230012	
Largemouth Bass	Liver	Vanadium	Inorganic	ER_R	2010	6	/	6	mg/kg	0.0029	-	0.088	0.046983333	0.02726466	
Largemouth Bass	Liver	Vanadium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.033	-	0.054	0.045	0.010816654	
Largemouth Bass	Liver	Vanadium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.051	-	0.26	0.131666667	0.112358059	
Largemouth Bass	Liver	Vanadium	Inorganic	CR_R	2010	3	/	3	mg/kg	0.019	-	0.078	0.040333333	0.032715949	
Largemouth Bass	Liver	Vanadium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.063	-	0.27	0.144333333	0.110391727	
Largemouth Bass	Liver	Zinc	Inorganic	ER_R	2010	6	/	6	mg/kg	19	-	33	24.33333333	5.715476066	
Largemouth Bass	Liver	Zinc	Inorganic	ER_B	2010	3	/	3	mg/kg	20	-	32	24.33333333	6.658328118	
Largemouth Bass	Liver	Zinc	Inorganic	ER_A	2010	3	/	3	mg/kg	23	-	25	24	1	
Largemouth Bass	Liver	Zinc	Inorganic	CR_R	2010	3	/	3	mg/kg	16	-	24	20.66666667	4.163331999	
Largemouth Bass	Liver	Zinc	Inorganic	CR_A	2010	3	/	3	mg/kg	25	-	28	26.33333333	1.527525232	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 6. Ovary Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Aluminum	Inorganic	ER_R	2010	10	/	10	mg/kg	0.91	-	3.6	1.861	0.777809603	
Bluegill	Aluminum	Inorganic	ER_B	2010	5	/	5	mg/kg	0.61	-	2.8	1.592	0.950299953	
Bluegill	Aluminum	Inorganic	ER_A	2010	5	/	5	mg/kg	0.91	-	8.5	3.052	3.21002648	
Bluegill	Aluminum	Inorganic	CR_R	2010	4	/	4	mg/kg	0.79	-	1.8	1.1975	0.457556918	
Bluegill	Aluminum	Inorganic	CR_A	2010	5	/	5	mg/kg	1.7	-	5.4	3.44	1.768615278	p < 0.05
Bluegill	Antimony	Inorganic	ER_R	2010	7	/	10	mg/kg	0.0027	-	0.0053	0.08185	0.171473375	
Bluegill	Antimony	Inorganic	ER_B	2010	5	/	5	mg/kg	0.003	-	0.011	0.0074	0.002929164	
Bluegill	Antimony	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0042	-	0.017	0.00776	0.005496635	
Bluegill	Antimony	Inorganic	CR_R	2010	3	/	4	mg/kg	0.0021	-	0.01	0.0793	0.147169358	
Bluegill	Antimony	Inorganic	CR_A	2010	2	/	5	mg/kg	0.0012	-	0.0018	0.2206	0.247023724	
Bluegill	Arsenic	Inorganic	ER_R	2010	10	/	10	mg/kg	0.017	-	0.11	0.0561	0.031479976	
Bluegill	Arsenic	Inorganic	ER_B	2010	5	/	5	mg/kg	0.025	-	0.11	0.0766	0.032943892	
Bluegill	Arsenic	Inorganic	ER_A	2010	5	/	5	mg/kg	0.066	-	0.13	0.0896	0.026292585	
Bluegill	Arsenic	Inorganic	CR_R	2010	4	/	4	mg/kg	0.031	-	0.094	0.067	0.031570028	
Bluegill	Arsenic	Inorganic	CR_A	2010	5	/	5	mg/kg	0.095	-	0.48	0.251	0.173939645	p < 0.05
Bluegill	Barium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.07	-	0.48	0.179	0.113181271	
Bluegill	Barium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.092	-	0.2	0.131	0.047455242	
Bluegill	Barium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.091	-	0.21	0.1342	0.045367389	
Bluegill	Barium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.068	-	0.14	0.099	0.03671512	
Bluegill	Barium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.11	-	0.22	0.154	0.055946403	
Bluegill	Beryllium	Inorganic	ER_R	2010	0	/	10	mg/kg		-		0.1018	0.060841872	
Bluegill	Beryllium	Inorganic	ER_B	2010	0	/	5	mg/kg		-		0.1198	0.066597297	
Bluegill	Beryllium	Inorganic	ER_A	2010	0	/	5	mg/kg		-		0.0752	0.025626159	
Bluegill	Beryllium	Inorganic	CR_R	2010	0	/	4	mg/kg		-		0.146	0.043481797	
Bluegill	Beryllium	Inorganic	CR_A	2010	0	/	5	mg/kg		-		0.128	0.100516168	
Bluegill	Boron	Inorganic	ER_R	2010	4	/	10	mg/kg	0.086	-	0.69	0.6416	0.336582564	
Bluegill	Boron	Inorganic	ER_B	2010	1	/	5	mg/kg	0.18	-	0.18	1.014	0.811098021	
Bluegill	Boron	Inorganic	ER_A	2010	3	/	5	mg/kg	0.12	-	0.23	0.48	0.410060971	
Bluegill	Boron	Inorganic	CR_R	2010	3	/	4	mg/kg	0.15	-	0.4	0.7175	0.861331334	
Bluegill	Boron	Inorganic	CR_A	2010	3	/	5	mg/kg	0.11	-	0.16	1.002	1.236656783	
Bluegill	Cadmium	Inorganic	ER_R	2010	9	/	10	mg/kg	0.0025	-	0.0093	0.03129	0.083901059	
Bluegill	Cadmium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.0014	-	0.0064	0.00432	0.001909712	
Bluegill	Cadmium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.003	-	0.0057	0.00406	0.001283745	
Bluegill	Cadmium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0031	-	0.0055	0.003875	0.001102648	
Bluegill	Cadmium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.0026	-	0.016	0.00668	0.005411746	
Bluegill	Calcium	Inorganic	ER_R	2010	10	/	10	mg/kg	100	-	550	237	154.5639026	
Bluegill	Calcium	Inorganic	ER_B	2010	5	/	5	mg/kg	120	-	690	226.2	262.8444407	
Bluegill	Calcium	Inorganic	ER_A	2010	5	/	5	mg/kg	130	-	96	135.2	30.08654184	
Bluegill	Calcium	Inorganic	CR_R	2010	4	/	4	mg/kg	130	-	170	145	17.32050808	
Bluegill	Calcium	Inorganic	CR_A	2010	5	/	5	mg/kg	120	-	90	150	48.98979486	
Bluegill	Chromium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.027	-	0.21	0.0635	0.053922269	
Bluegill	Chromium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.018	-	0.045	0.03	0.010606602	
Bluegill	Chromium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0087	-	0.052	0.02954	0.016834726	
Bluegill	Chromium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.021	-	0.075	0.0535	0.026006409	
Bluegill	Chromium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.02	-	0.14	0.0816	0.05267637	
Bluegill	Cobalt	Inorganic	ER_R	2010	10	/	10	mg/kg	0.029	-	0.057	0.0423	0.009381424	
Bluegill	Cobalt	Inorganic	ER_B	2010	5	/	5	mg/kg	0.013	-	0.046	0.034	0.0124499	
Bluegill	Cobalt	Inorganic	ER_A	2010	5	/	5	mg/kg	0.02	-	0.042	0.0348	0.00914877	
Bluegill	Cobalt	Inorganic	CR_R	2010	4	/	4	mg/kg	0.02	-	0.036	0.031	0.007438638	
Bluegill	Cobalt	Inorganic	CR_A	2010	5	/	5	mg/kg	0.027	-	0.066	0.0404	0.015274161	
Bluegill	Copper	Inorganic	ER_R	2010	10	/	10	mg/kg	0.74	-	1.4	0.924	0.183496897	
Bluegill	Copper	Inorganic	ER_B	2010	5	/	5	mg/kg	0.35	-	0.93	0.666	0.223002242	
Bluegill	Copper	Inorganic	ER_A	2010	5	/	5	mg/kg	0.62	-	1	0.852	0.16543881	
Bluegill	Copper	Inorganic	CR_R	2010	4	/	4	mg/kg	0.68	-	0.98	0.815	0.148211561	
Bluegill	Copper	Inorganic	CR_A	2010	5	/	5	mg/kg	0.78	-	1.1	0.886	0.128374452	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 6. Ovary Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Iron	Inorganic	ER_R	2010	10	/	10	mg/kg	10	-	9.8	17.28	7.681550769	
Bluegill	Iron	Inorganic	ER_B	2010	5	/	5	mg/kg	11	-	9.2	9.78	3.093864897	
Bluegill	Iron	Inorganic	ER_A	2010	5	/	5	mg/kg	11	-	7.5	12.5	3.31662479	
Bluegill	Iron	Inorganic	CR_R	2010	4	/	4	mg/kg	11	-	13	11.5	1	
Bluegill	Iron	Inorganic	CR_A	2010	5	/	5	mg/kg	12	-	21	14.8	3.633180425	
Bluegill	Lead	Inorganic	ER_R	2010	10	/	10	mg/kg	0.003	-	0.01	0.0058	0.0024	
Bluegill	Lead	Inorganic	ER_B	2010	3	/	5	mg/kg	0.0019	-	0.011	0.1391	0.199240633	
Bluegill	Lead	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0026	-	0.0037	0.00316	0.000444972	
Bluegill	Lead	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0026	-	0.0069	0.0047	0.001794436	
Bluegill	Lead	Inorganic	CR_A	2010	5	/	5	mg/kg	0.0032	-	0.015	0.0076	0.00471858	
Bluegill	Magnesium	Inorganic	ER_R	2010	10	/	10	mg/kg	240	-	330	286	28.75181154	
Bluegill	Magnesium	Inorganic	ER_B	2010	5	/	5	mg/kg	100	-	320	238	89.27485648	
Bluegill	Magnesium	Inorganic	ER_A	2010	5	/	5	mg/kg	270	-	350	308	30.33150178	
Bluegill	Magnesium	Inorganic	CR_R	2010	4	/	4	mg/kg	270	-	330	300	25.81988897	
Bluegill	Magnesium	Inorganic	CR_A	2010	5	/	5	mg/kg	270	-	340	316	28.80972058	
Bluegill	Manganese	Inorganic	ER_R	2010	10	/	10	mg/kg	1.1	-	5.4	2.56	1.380177122	
Bluegill	Manganese	Inorganic	ER_B	2010	5	/	5	mg/kg	0.69	-	2.3	1.678	0.711983146	
Bluegill	Manganese	Inorganic	ER_A	2010	5	/	5	mg/kg	0.87	-	5.9	3.134	1.856550565	
Bluegill	Manganese	Inorganic	CR_R	2010	4	/	4	mg/kg	1.1	-	2.2	1.775	0.499165971	
Bluegill	Manganese	Inorganic	CR_A	2010	5	/	5	mg/kg	1.6	-	5.3	3.76	1.500999667	0.05 < p < 0.1
Bluegill	Molybdenum	Inorganic	ER_R	2010	10	/	10	mg/kg	0.023	-	0.054	0.033	0.008869423	
Bluegill	Molybdenum	Inorganic	ER_B	2010	5	/	5	mg/kg	0.012	-	0.046	0.0284	0.012300406	
Bluegill	Molybdenum	Inorganic	ER_A	2010	5	/	5	mg/kg	0.02	-	0.033	0.0274	0.004827007	
Bluegill	Molybdenum	Inorganic	CR_R	2010	4	/	4	mg/kg	0.022	-	0.035	0.03	0.005597619	
Bluegill	Molybdenum	Inorganic	CR_A	2010	5	/	5	mg/kg	0.04	-	0.07	0.0518	0.01109955	p < 0.05
Bluegill	Nickel	Inorganic	ER_R	2010	0	/	10	mg/kg		-		1.018	0.608418715	
Bluegill	Nickel	Inorganic	ER_B	2010	2	/	5	mg/kg	0.08	-	0.14	0.562	0.473518743	
Bluegill	Nickel	Inorganic	ER_A	2010	0	/	5	mg/kg		-		0.752	0.256261585	
Bluegill	Nickel	Inorganic	CR_R	2010	0	/	4	mg/kg		-		1.46	0.43481797	
Bluegill	Nickel	Inorganic	CR_A	2010	0	/	5	mg/kg		-		1.28	1.005161679	
Bluegill	Potassium	Inorganic	ER_R	2010	10	/	10	mg/kg	2400	-	3400	2890	276.6867463	
Bluegill	Potassium	Inorganic	ER_B	2010	5	/	5	mg/kg	1900	-	980	2396	934.9224567	
Bluegill	Potassium	Inorganic	ER_A	2010	5	/	5	mg/kg	2700	-	3300	2920	238.7467277	
Bluegill	Potassium	Inorganic	CR_R	2010	4	/	4	mg/kg	2100	-	2900	2500	408.2482905	
Bluegill	Potassium	Inorganic	CR_A	2010	5	/	5	mg/kg	2900	-	3200	3040	114.0175425	
Bluegill	Selenium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.75	-	1.2	0.985	0.1631802	
Bluegill	Selenium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.45	-	1.5	1.118	0.429092065	
Bluegill	Selenium	Inorganic	ER_A	2010	5	/	5	mg/kg	1.1	-	1.4	1.26	0.114017543	
Bluegill	Selenium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.91	-	1.1	1.015	0.099498744	
Bluegill	Selenium	Inorganic	CR_A	2010	5	/	5	mg/kg	1.2	-	1.6	1.32	0.164316767	
Bluegill	Silver	Inorganic	ER_R	2010	10	/	10	mg/kg	0.0011	-	0.0056	0.00359	0.001478325	
Bluegill	Silver	Inorganic	ER_B	2010	5	/	5	mg/kg	0.0013	-	0.0023	0.00162	0.000408656	
Bluegill	Silver	Inorganic	ER_A	2010	4	/	5	mg/kg	0.0012	-	0.0034	0.02154	0.042749713	
Bluegill	Silver	Inorganic	CR_R	2010	4	/	4	mg/kg	0.00075	-	0.002	0.0014625	0.000593542	
Bluegill	Silver	Inorganic	CR_A	2010	0	/	5	mg/kg		-		0.128	0.100516168	
Bluegill	Sodium	Inorganic	ER_R	2010	10	/	10	mg/kg	670	-	890	748	81.21302578	
Bluegill	Sodium	Inorganic	ER_B	2010	5	/	5	mg/kg	230	-	940	614	264.6318197	
Bluegill	Sodium	Inorganic	ER_A	2010	5	/	5	mg/kg	650	-	780	744	53.66563146	
Bluegill	Sodium	Inorganic	CR_R	2010	4	/	4	mg/kg	1200	-	840	992.5	243.7724349	
Bluegill	Sodium	Inorganic	CR_A	2010	5	/	5	mg/kg	720	-	850	782	58.9067059	
Bluegill	Thallium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.0049	-	0.012	0.00923	0.002330975	
Bluegill	Thallium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.0061	-	0.07	0.02922	0.024342186	p < 0.05
Bluegill	Thallium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.017	-	0.03	0.0236	0.004722288	p < 0.05
Bluegill	Thallium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0089	-	0.011	0.009575	0.000974252	
Bluegill	Thallium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.025	-	0.046	0.034	0.009823441	p < 0.05

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 6. Ovary Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Vanadium	Inorganic	ER_R	2010	5	/	10	mg/kg	0.024	-	0.037	0.2446	0.332328887	
Bluegill	Vanadium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.017	-	0.092	0.0486	0.02709797	
Bluegill	Vanadium	Inorganic	ER_A	2010	2	/	5	mg/kg	0.0096	-	0.026	0.19312	0.176770676	
Bluegill	Vanadium	Inorganic	CR_R	2010	0	/	4	mg/kg		-		0.58	0.164113782	
Bluegill	Vanadium	Inorganic	CR_A	2010	3	/	5	mg/kg	0.016	-	0.029	0.3806	0.508610657	
Bluegill	Zinc	Inorganic	ER_R	2010	10	/	10	mg/kg	26	-	42	31.8	5.006662228	
Bluegill	Zinc	Inorganic	ER_B	2010	5	/	5	mg/kg	22	-	9.6	24.92	9.409144488	
Bluegill	Zinc	Inorganic	ER_A	2010	5	/	5	mg/kg	25	-	32	27.8	3.033150178	
Bluegill	Zinc	Inorganic	CR_R	2010	4	/	4	mg/kg	25	-	35	29.5	4.434711565	
Bluegill	Zinc	Inorganic	CR_A	2010	5	/	5	mg/kg	28	-	38	33	4.358898944	
Largemouth Bass	Aluminum	Inorganic	ER_R	2010	10	/	10	mg/kg	0.34	-	1.3	0.752	0.345793773	
Largemouth Bass	Aluminum	Inorganic	ER_B	2010	5	/	5	mg/kg	0.47	-	0.88	0.666	0.146731046	
Largemouth Bass	Aluminum	Inorganic	ER_A	2010	5	/	5	mg/kg	0.28	-	0.8	0.466	0.200074986	
Largemouth Bass	Aluminum	Inorganic	CR_R	2010	4	/	4	mg/kg	0.34	-	0.64	0.48	0.157268348	
Largemouth Bass	Aluminum	Inorganic	CR_A	2010	5	/	5	mg/kg	0.52	-	1.1	0.752	0.223427841	
Largemouth Bass	Antimony	Inorganic	ER_R	2010	5	/	10	mg/kg	0.0066	-	0.0081	0.05924	0.055789629	
Largemouth Bass	Antimony	Inorganic	ER_B	2010	5	/	5	mg/kg	0.003	-	0.0096	0.00584	0.002398541	
Largemouth Bass	Antimony	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0013	-	0.0046	0.0027	0.001457738	
Largemouth Bass	Antimony	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0012	-	0.0048	0.00215	0.001767295	
Largemouth Bass	Antimony	Inorganic	CR_A	2010	2	/	5	mg/kg	0.0011	-	0.0036	0.05954	0.052225741	
Largemouth Bass	Arsenic	Inorganic	ER_R	2010	10	/	10	mg/kg	0.084	-	0.2	0.1402	0.04358848	
Largemouth Bass	Arsenic	Inorganic	ER_B	2010	5	/	5	mg/kg	0.095	-	0.19	0.153	0.039623226	
Largemouth Bass	Arsenic	Inorganic	ER_A	2010	5	/	5	mg/kg	0.17	-	0.34	0.238	0.068702256	p < 0.05
Largemouth Bass	Arsenic	Inorganic	CR_R	2010	4	/	4	mg/kg	0.2	-	0.3	0.26	0.042426407	
Largemouth Bass	Arsenic	Inorganic	CR_A	2010	5	/	5	mg/kg	0.14	-	0.35	0.268	0.084675853	
Largemouth Bass	Barium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.0072	-	0.069	0.02742	0.019114497	
Largemouth Bass	Barium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.028	-	0.072	0.0458	0.017469974	p < 0.05
Largemouth Bass	Barium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.025	-	0.046	0.0354	0.008561542	
Largemouth Bass	Barium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.023	-	0.037	0.03175	0.00670199	
Largemouth Bass	Barium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.033	-	0.07	0.0516	0.017882953	
Largemouth Bass	Beryllium	Inorganic	ER_R	2010	0	/	10	mg/kg		-		0.055	0.005868939	
Largemouth Bass	Beryllium	Inorganic	ER_B	2010	0	/	5	mg/kg		-		0.0488	0.00083666	
Largemouth Bass	Beryllium	Inorganic	ER_A	2010	0	/	5	mg/kg		-		0.0504	0.00167332	
Largemouth Bass	Beryllium	Inorganic	CR_R	2010	0	/	4	mg/kg		-		0.049	0.002	
Largemouth Bass	Beryllium	Inorganic	CR_A	2010	0	/	5	mg/kg		-		0.0488	0.00083666	
Largemouth Bass	Boron	Inorganic	ER_R	2010	6	/	10	mg/kg	0.077	-	0.2	0.2897	0.229640806	
Largemouth Bass	Boron	Inorganic	ER_B	2010	5	/	5	mg/kg	0.071	-	0.12	0.0942	0.021856349	
Largemouth Bass	Boron	Inorganic	ER_A	2010	2	/	5	mg/kg	0.071	-	0.073	0.3368	0.241970453	
Largemouth Bass	Boron	Inorganic	CR_R	2010	2	/	4	mg/kg	0.068	-	0.08	0.287	0.24654141	
Largemouth Bass	Boron	Inorganic	CR_A	2010	5	/	5	mg/kg	0.095	-	0.16	0.133	0.027748874	
Largemouth Bass	Cadmium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.00081	-	0.0036	0.001884	0.000923546	
Largemouth Bass	Cadmium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.0015	-	0.0036	0.00282	0.000875785	
Largemouth Bass	Cadmium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0013	-	0.0069	0.00352	0.002293905	0.05 < p < 0.1
Largemouth Bass	Cadmium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0023	-	0.0045	0.003375	0.000970824	
Largemouth Bass	Cadmium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.0011	-	0.0034	0.00234	0.000829458	
Largemouth Bass	Calcium	Inorganic	ER_R	2010	10	/	10	mg/kg	100	-	95	157.7	104.4860969	
Largemouth Bass	Calcium	Inorganic	ER_B	2010	5	/	5	mg/kg	100	-	200	138	41.47288271	
Largemouth Bass	Calcium	Inorganic	ER_A	2010	5	/	5	mg/kg	170	-	94	100.2	39.67618933	
Largemouth Bass	Calcium	Inorganic	CR_R	2010	4	/	4	mg/kg	390	-	96	164.5	150.4271695	
Largemouth Bass	Calcium	Inorganic	CR_A	2010	5	/	5	mg/kg	120	-	83	97	21.01190139	
Largemouth Bass	Chromium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.011	-	0.075	0.0309	0.023661737	
Largemouth Bass	Chromium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.013	-	0.22	0.0554	0.092017933	
Largemouth Bass	Chromium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0088	-	0.087	0.02976	0.032299969	
Largemouth Bass	Chromium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.017	-	0.022	0.01975	0.002217356	
Largemouth Bass	Chromium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.019	-	0.032	0.0254	0.005770615	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 6. Ovary Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Cobalt	Inorganic	ER_R	2010	10	/	10	mg/kg	0.019	-	0.063	0.0402	0.015083471	
Largemouth Bass	Cobalt	Inorganic	ER_B	2010	5	/	5	mg/kg	0.023	-	0.057	0.037	0.01328533	
Largemouth Bass	Cobalt	Inorganic	ER_A	2010	5	/	5	mg/kg	0.02	-	0.044	0.0296	0.009289779	
Largemouth Bass	Cobalt	Inorganic	CR_R	2010	4	/	4	mg/kg	0.017	-	0.044	0.03025	0.0115	
Largemouth Bass	Cobalt	Inorganic	CR_A	2010	5	/	5	mg/kg	0.017	-	0.034	0.0242	0.006457554	
Largemouth Bass	Copper	Inorganic	ER_R	2010	10	/	10	mg/kg	0.97	-	1.6	1.224	0.191497026	
Largemouth Bass	Copper	Inorganic	ER_B	2010	5	/	5	mg/kg	1.1	-	1.7	1.4	0.282842712	
Largemouth Bass	Copper	Inorganic	ER_A	2010	5	/	5	mg/kg	1.3	-	1.5	1.36	0.089442719	
Largemouth Bass	Copper	Inorganic	CR_R	2010	4	/	4	mg/kg	0.99	-	1.4	1.2725	0.194143418	
Largemouth Bass	Copper	Inorganic	CR_A	2010	5	/	5	mg/kg	1.2	-	1.9	1.68	0.294957624	p < 0.05
Largemouth Bass	Iron	Inorganic	ER_R	2010	10	/	10	mg/kg	13	-	35	22.1	6.522610248	
Largemouth Bass	Iron	Inorganic	ER_B	2010	5	/	5	mg/kg	16	-	21	18	2.121320344	
Largemouth Bass	Iron	Inorganic	ER_A	2010	5	/	5	mg/kg	15	-	28	18.2	5.540758071	
Largemouth Bass	Iron	Inorganic	CR_R	2010	4	/	4	mg/kg	14	-	19	16.25	2.061552813	
Largemouth Bass	Iron	Inorganic	CR_A	2010	5	/	5	mg/kg	15	-	26	18.2	4.549725266	
Largemouth Bass	Lead	Inorganic	ER_R	2010	8	/	10	mg/kg	0.00099	-	0.03	0.032629	0.052474834	
Largemouth Bass	Lead	Inorganic	ER_B	2010	5	/	5	mg/kg	0.001	-	0.0032	0.00174	0.000882043	
Largemouth Bass	Lead	Inorganic	ER_A	2010	5	/	5	mg/kg	0.00098	-	0.0017	0.001316	0.000332084	
Largemouth Bass	Lead	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0016	-	0.014	0.00595	0.005755867	
Largemouth Bass	Lead	Inorganic	CR_A	2010	5	/	5	mg/kg	0.0011	-	0.0056	0.00278	0.00168434	
Largemouth Bass	Magnesium	Inorganic	ER_R	2010	10	/	10	mg/kg	180	-	280	246	33.39993347	
Largemouth Bass	Magnesium	Inorganic	ER_B	2010	5	/	5	mg/kg	230	-	260	244	13.41640786	
Largemouth Bass	Magnesium	Inorganic	ER_A	2010	5	/	5	mg/kg	240	-	290	266	20.73644135	
Largemouth Bass	Magnesium	Inorganic	CR_R	2010	4	/	4	mg/kg	230	-	320	270	37.41657387	
Largemouth Bass	Magnesium	Inorganic	CR_A	2010	5	/	5	mg/kg	280	-	300	288	10.95445115	
Largemouth Bass	Manganese	Inorganic	ER_R	2010	10	/	10	mg/kg	1.2	-	3.8	2.49	0.882483868	
Largemouth Bass	Manganese	Inorganic	ER_B	2010	5	/	5	mg/kg	2.3	-	4	3.2	0.738241153	
Largemouth Bass	Manganese	Inorganic	ER_A	2010	5	/	5	mg/kg	1.4	-	4.4	3.02	1.362717872	
Largemouth Bass	Manganese	Inorganic	CR_R	2010	4	/	4	mg/kg	1.8	-	3.9	2.8	0.860232527	
Largemouth Bass	Manganese	Inorganic	CR_A	2010	5	/	5	mg/kg	1.6	-	3.8	3.1	0.905538514	
Largemouth Bass	Molybdenum	Inorganic	ER_R	2010	10	/	10	mg/kg	0.014	-	0.028	0.019	0.004876246	
Largemouth Bass	Molybdenum	Inorganic	ER_B	2010	5	/	5	mg/kg	0.013	-	0.032	0.0224	0.008619745	
Largemouth Bass	Molybdenum	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0086	-	0.03	0.01532	0.008403095	
Largemouth Bass	Molybdenum	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0052	-	0.013	0.01005	0.003465545	
Largemouth Bass	Molybdenum	Inorganic	CR_A	2010	5	/	5	mg/kg	0.014	-	0.036	0.0242	0.008074652	p < 0.05
Largemouth Bass	Nickel	Inorganic	ER_R	2010	3	/	10	mg/kg	0.0081	-	0.014	0.39421	0.269947808	
Largemouth Bass	Nickel	Inorganic	ER_B	2010	0	/	5	mg/kg		-		0.488	0.0083666	
Largemouth Bass	Nickel	Inorganic	ER_A	2010	0	/	5	mg/kg		-		0.504	0.016733201	
Largemouth Bass	Nickel	Inorganic	CR_R	2010	0	/	4	mg/kg		-		0.49	0.02	
Largemouth Bass	Nickel	Inorganic	CR_A	2010	0	/	5	mg/kg		-		0.488	0.0083666	
Largemouth Bass	Potassium	Inorganic	ER_R	2010	10	/	10	mg/kg	1900	-	3200	2810	384.2742077	
Largemouth Bass	Potassium	Inorganic	ER_B	2010	5	/	5	mg/kg	3000	-	3300	3180	130.3840481	0.05 < p < 0.1
Largemouth Bass	Potassium	Inorganic	ER_A	2010	5	/	5	mg/kg	2800	-	3400	3060	270.1851217	
Largemouth Bass	Potassium	Inorganic	CR_R	2010	4	/	4	mg/kg	2500	-	3000	2825	236.2907813	
Largemouth Bass	Potassium	Inorganic	CR_A	2010	5	/	5	mg/kg	2900	-	3300	3120	148.3239697	
Largemouth Bass	Selenium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.8	-	1.1	0.986	0.096171144	
Largemouth Bass	Selenium	Inorganic	ER_B	2010	5	/	5	mg/kg	1.1	-	1.3	1.18	0.083666003	0.05 < p < 0.1
Largemouth Bass	Selenium	Inorganic	ER_A	2010	5	/	5	mg/kg	1.2	-	1.7	1.36	0.194935887	p < 0.05
Largemouth Bass	Selenium	Inorganic	CR_R	2010	4	/	4	mg/kg	1.1	-	1.5	1.275	0.206155281	
Largemouth Bass	Selenium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.77	-	1.5	1.136	0.295177912	
Largemouth Bass	Silver	Inorganic	ER_R	2010	10	/	10	mg/kg	0.00069	-	0.0071	0.002288	0.001931182	
Largemouth Bass	Silver	Inorganic	ER_B	2010	5	/	5	mg/kg	0.00099	-	0.0019	0.001418	0.000330333	
Largemouth Bass	Silver	Inorganic	ER_A	2010	2	/	5	mg/kg	0.0009	-	0.0011	0.0302	0.026668427	
Largemouth Bass	Silver	Inorganic	CR_R	2010	3	/	4	mg/kg	0.00038	-	0.00067	0.0123675	0.023755347	
Largemouth Bass	Silver	Inorganic	CR_A	2010	3	/	5	mg/kg	0.00069	-	0.00087	0.02005	0.026437174	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 6. Ovary Data Presented by Analyte (2010 Events)

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Sodium	Inorganic	ER_R	2010	10	/	10	mg/kg	1000	-	960	955	211.8306451	
Largemouth Bass	Sodium	Inorganic	ER_B	2010	5	/	5	mg/kg	1000	-	870	1034	101.3903348	
Largemouth Bass	Sodium	Inorganic	ER_A	2010	5	/	5	mg/kg	830	-	870	848	20.49390153	
Largemouth Bass	Sodium	Inorganic	CR_R	2010	4	/	4	mg/kg	1100	-	890	925	118.462371	
Largemouth Bass	Sodium	Inorganic	CR_A	2010	5	/	5	mg/kg	870	-	960	912	32.71085447	
Largemouth Bass	Thallium	Inorganic	ER_R	2010	10	/	10	mg/kg	0.005	-	0.018	0.01127	0.004276044	
Largemouth Bass	Thallium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.014	-	0.047	0.0308	0.015303594	$p < 0.05$
Largemouth Bass	Thallium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.023	-	0.06	0.0354	0.015501613	$p < 0.05$
Largemouth Bass	Thallium	Inorganic	CR_R	2010	4	/	4	mg/kg	0.0069	-	0.021	0.015975	0.006266512	
Largemouth Bass	Thallium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.0056	-	0.033	0.01912	0.010647629	
Largemouth Bass	Vanadium	Inorganic	ER_R	2010	5	/	10	mg/kg	0.014	-	0.029	0.1202	0.107161146	
Largemouth Bass	Vanadium	Inorganic	ER_B	2010	1	/	5	mg/kg	0.011	-	0.011	0.1582	0.082439068	
Largemouth Bass	Vanadium	Inorganic	ER_A	2010	1	/	5	mg/kg	0.0034	-	0.0034	0.16268	0.089145454	
Largemouth Bass	Vanadium	Inorganic	CR_R	2010	0	/	4	mg/kg		-		0.195	0.01	
Largemouth Bass	Vanadium	Inorganic	CR_A	2010	0	/	5	mg/kg		-		0.196	0.005477226	
Largemouth Bass	Zinc	Inorganic	ER_R	2010	10	/	10	mg/kg	26	-	57	32.2	9.818350167	
Largemouth Bass	Zinc	Inorganic	ER_B	2010	5	/	5	mg/kg	25	-	32	29	2.915475947	
Largemouth Bass	Zinc	Inorganic	ER_A	2010	5	/	5	mg/kg	29	-	35	32.2	2.28035085	
Largemouth Bass	Zinc	Inorganic	CR_R	2010	4	/	4	mg/kg	27	-	33	30.5	2.516611478	
Largemouth Bass	Zinc	Inorganic	CR_A	2010	5	/	5	mg/kg	30	-	36	33.2	2.28035085	

Notes:

CR_A - Clinch Reach A
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_R - Emory River Reference Reach
RL - reporting limit
mg/kg - milligrams per kilogram

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Table 7. Results of Spatial Analysis for Fillet Samples (2010 Sampling Events)

Tennessee Valley Authority **Kingston, Tennessee**

Analyte	Model Pr>F	Dunnett's Test for Comparison to ER_R			Dunnett's Test for Comparison to CR_R		HOV	FOD
		ER_A	ER_B	ER_C	CR_A	CR_B		
One way ANOVA Bluegill*								
Arsenic	<.0001	<.0001	<.0001	0.012	0.519	0.004	0.188	83%
Barium	0.018	0.814	0.838	0.018	0.999	0.272	0.282	70%
Calcium	0.015	0.862	0.612	0.245	1.000	0.119	0.706	97%
Copper	0.002	0.0017 (a)	0.0418 (a)	0.0522 (a)	0.341	0.875	<.0001	94%
Magnesium	0.035	0.129	0.251	0.962	0.715	0.023	0.324	98%
Manganese	0.002	0.977	0.867	0.003	1.000	0.771	0.050	94%
Mercury	0.009	0.3234 (a)	0.1935 (a)	0.8532 (a)	0.988	0.995	<.0001	98%
Potassium	0.004	0.237	0.532	1.000	0.259	0.970	0.339	98%
Selenium	<.0001	<.0001 (a)	<.0001 (a)	0.0027 (a)	0.001	0.010	<.0001	98%
Sodium	0.008	0.6835 (a)	0.2641 (a)	0.0294 (a)	0.731	0.005	0.022	98%
Strontium	0.005	0.379	0.077	0.014	0.998	0.103	0.457	97%
Zinc	0.008	0.0133 (a)	0.2882 (a)	0.3655 (a)	0.586	0.980	0.021	96%
One way ANOVA Channel Catfish Fillet								
Arsenic	0.008	0.0114 (b)	0.358	0.370	0.477	0.996	0.240	26%
Barium	0.070	0.972	0.883	0.112	1.000	0.998	0.130	40%
Calcium	0.243	0.849	0.631	0.035	0.984	0.838	0.022	100%
Copper	0.277	0.034	0.606	0.463	0.947	0.775	0.190	100%
Magnesium	0.397	0.992	0.992	0.999	0.709	0.917	0.111	100%
Manganese	0.108	0.789	0.422	0.018	0.998	0.926	0.193	71%
Mercury	0.272	0.958	0.986	0.531	0.995	0.414	0.298	100%
Nickel	0.452	0.574	0.982	0.628	0.983	1.000	0.262	22%
Potassium	0.002	0.989	0.990	1.000	0.031	0.192	0.268	100%
Selenium	0.002	0.0002 (a)	0.0003 (a)	0.1989 (a)	0.0976 (a)	0.1076 (a)	0.010	100%
Sodium	0.123	0.988	0.998	0.552	0.973	0.209	0.120	100%
Strontium	0.071	0.710	0.417	0.013	0.999	0.912	0.186	100%
Zinc	0.064	0.310	0.646	0.136	0.999	0.429	0.075	100%
PCB-1254	0.563	0.961	0.994	0.871	0.953	0.737	0.352	68%
PCB-1260	0.492	0.979	0.991	0.747	0.958	0.378	0.465	100%
alpha-Chlordane	0.522	0.820	0.979	0.986	0.972	0.997	0.621	74%
gamma-Chlordane	0.522	0.894	0.988	0.984	0.998	0.998	0.165	32%
One way ANOVA Largemouth Bass Fillet								
Arsenic	<.0001	0.0002 (a)	0.0006 (a)	0.0003 (a)	0.937 (a)	0.3986 (a)	<.0001	100%
Calcium	<.0001	0.551	0.901	<.0001	0.781	0.002	0.020	100%
Copper	0.058	0.625	0.105	0.007	0.611	0.383	0.402	99%
Magnesium	0.088	0.184	0.465	0.281	0.771	0.063	0.394	100%
Manganese	0.008	0.218	0.466	0.008	0.785	0.093	0.265	49%
Mercury	0.899	0.839	0.792	0.907	0.968	0.997	0.177	100%
Potassium	<.0001	1.000	0.297	1.000	0.991	1.000	0.430	97%
Selenium	<.0001	<0.0001 (a)	<0.0001 (a)	0.002 (a)	0.3554 (a)	0.0142 (a)	0.0004	100%
Sodium	0.000	0.038	0.136	0.218	0.949	0.128	0.060	100%
Strontium	<.0001	0.063	0.332	<.0001	0.649	0.002	0.050	99%
Zinc	0.012	0.017	0.069	0.017	0.511	0.774	0.020	100%
PCB-1254	0.281	0.866	0.866	0.092	0.726	0.426	0.040	25%
PCB-1260	0.686	0.779	0.761	0.302	0.673	0.540	0.297	100%
alpha-Chlordane	0.313	0.866	0.866	0.115	0.984	0.710	0.022	15%

Notes:

- Dunnett's test is one-sided: Is site greater than the reference (ER_R or CR_R)?
- Wilcoxon Mann-Whitney Results are used if HOV from Leven's Test is less than 0.01.

* - Excludes samaples KIF-ERM8.0_BG.F.G.01-FH-051110 and KIF-ERM8.0_BG.F.G.03-FH-051110; these samples had elevated non-detects.

(a) - Wilcoxon Mann-Whitney Test

(b) - Based on non-detects; not considered significant

- p < 0.05 or 0.05 < p < 0.1

FOD - frequency of detection

HOV - Homogeneity of Variance Test

PCB - polychlorinated biphenyl

CR_A - Clinch Reach A

CR_B - Clinch Reach B

CR_R - Clinch River Reference Reach

ER_A - Emory Reach A

ER_B - Emory Reach B

ER_C - Emory Reach C

ER_R - Emory River Reference Reach

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Table 8. Results of Spatial Analysis for Whole Body Samples (2010 Sampling Events)

Tennessee Valley Authority Kingston, Tennessee

Analyte	Model Pr>F	Dunnett's Test for Comparison to ER_R			Dunnett's Test for Comparison to CR_R		HOV	FOD
		ER_A	ER_B	ER_C	CR_A	CR_B		
Bluegill Whole Body One way ANOVA								
Aluminum	0.504	0.805	0.702	0.984	0.262	0.157	0.001	77%
Arsenic	0.049	0.0075 (a)	0.0444 (a)	0.2402 (a)	0.3803 (a)	0.6521 (a)	0.006	100%
Barium	0.558	0.713	0.652	0.829	0.169	0.294	0.388	98%
Cadmium	0.013	0.436	0.627	0.245	0.0009 (b)	0.0952 (b)	0.301	23%
Calcium	0.724	0.678	0.854	0.885	0.566	0.217	0.353	100%
Cobalt	0.198	0.464	0.294	0.983	0.412	0.366	0.497	88%
Copper	0.704	0.642	0.886	0.948	0.220	0.426	0.246	100%
Iron	0.474	0.5689 (a)	0.5689 (a)	0.7573 (a)	0.1945 (a)	0.0101 (a)	0.002	98%
Lead	0.361	0.265	0.710	0.973	0.548	0.226	0.105	88%
Magnesium	0.410	0.800	0.970	0.979	0.996	0.517	0.301	100%
Manganese	0.825	0.913	0.690	0.820	0.287	0.522	0.379	100%
Mercury	0.272	0.885	0.797	0.985	1.000	0.996	0.451	64%
Nickel	0.024	0.3431 (a)	0.6356 (a)	0.091 (a) (b)	0.0044 (a) (b)	0.0372 (a) (b)	<.0001	30%
Potassium	0.080	0.983	0.954	0.994	1.000	0.997	0.187	100%
Selenium	0.087	0.481	0.061	0.063	0.709	0.993	0.130	100%
Sodium	0.475	0.644	0.942	0.983	0.766	0.924	0.352	100%
Strontium	0.732	0.514	0.666	0.719	0.339	0.357	0.371	100%
Vanadium	0.063	0.993	0.074	0.529	0.390	0.202	0.252	77%
Zinc	0.019	0.084	0.038	0.147	0.129	0.973	0.487	100%
Gizzard Shad whole body minus gut 2010								
Aluminum	0.504	0.805	0.702	0.984	0.262	0.157	0.001	77%
Arsenic	0.049	0.0075 (a)	0.0444 (a)	0.2402 (a)	0.3803 (a)	0.6521 (a)	0.006	100%
Barium	0.558	0.713	0.652	0.829	0.169	0.294	0.388	98%
Cadmium	0.013	0.436	0.627	0.245	0.0009 (b)	0.0952 (b)	0.301	23%
Calcium	0.724	0.678	0.854	0.885	0.566	0.217	0.353	100%
Cobalt	0.198	0.464	0.294	0.983	0.412	0.366	0.497	88%
Copper	0.704	0.642	0.886	0.948	0.220	0.426	0.246	100%
Iron	0.474	0.5689 (a)	0.5689 (a)	0.7573 (a)	0.1945 (a)	0.0101 (a)	0.002	98%
Lead	0.361	0.265	0.710	0.973	0.548	0.226	0.105	88%
Magnesium	0.410	0.800	0.970	0.979	0.996	0.517	0.301	100%
Manganese	0.825	0.913	0.690	0.820	0.287	0.522	0.379	100%
Mercury	0.272	0.885	0.797	0.985	1.000	0.996	0.451	64%
Nickel	0.024	0.3431 (a)	0.6356 (a)	0.091 (a) (b)	0.0044 (a) (b)	0.0372 (a) (b)	<.0001	30%
Potassium	0.080	0.983	0.954	0.994	1.000	0.997	0.187	100%
Selenium	0.087	0.481	0.061	0.063	0.709	0.993	0.130	100%
Sodium	0.475	0.644	0.942	0.983	0.766	0.924	0.352	100%
Strontium	0.732	0.514	0.666	0.719	0.339	0.357	0.371	100%
Vanadium	0.063	0.993	0.074	0.529	0.390	0.202	0.252	77%
Zinc	0.019	0.084	0.038	0.147	0.129	0.973	0.487	100%

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Table 8. Results of Spatial Analysis for Whole Body Samples (2010 Sampling Events)

Tennessee Valley Authority **Kingston, Tennessee**

Analyte	Model Pr>F	Dunnett's Test for Comparison to ER_R			Dunnett's Test for Comparison to CR_R		HOV	FOD
		ER_A	ER_B	ER_C	CR_A	CR_B		
Gizzard Shad whole body 2010								
Aluminum	0.003	0.794	0.998	1.000	0.0115 (a)	0.0115 (a)	<.0001	97%
Arsenic	0.000	0.0706 (a)	0.0297 (a)	0.2675 (a)	0.0461 (a)	0.0085 (a)	0.007	100%
Barium	0.000	0.986	1.000	1.000	0.0115 (a)	0.0268 (a)	0.000	100%
Cadmium	0.027	0.999	0.998	1.000	0.0351 (a)	0.1585 (a)	0.001	72%
Calcium	0.004	0.031	0.955	0.991	0.999	1.000	0.278	100%
Chromium	0.001	0.953	1.000	1.000	0.0201 (a)	0.0201 (a)	<.0001	74%
Cobalt	0.001	0.787	0.999	1.000	0.0152 (a)	0.0085 (a)	0.000	95%
Copper	0.018	1.000	1.000	1.000	0.1601 (a)	0.2198 (a)	0.000	100%
Iron	0.002	0.947	1.000	1.000	0.0115 (a)	0.0202 (a)	<.0001	100%
Lead	0.002	0.978	1.000	1.000	0.0152 (a)	0.0353 (a)	0.000	95%
Magnesium	0.277	0.553	0.992	0.995	0.693	0.924	0.124	100%
Manganese	0.065	0.998	0.994	1.000	0.142	0.650	0.029	100%
Mercury	0.063	0.770	0.836	0.983	0.045	0.709	0.025	72%
Nickel	0.004	0.999	1.000	1.000	0.070	0.191	0.095	74%
Potassium	0.864	0.354	0.724	0.465	0.930	0.985	0.090	100%
Selenium	0.112	0.885	0.085	0.527	0.916	0.983	0.298	100%
Silver	0.059	0.967	0.579	0.994	0.052	0.673	0.245	44%
Sodium	<.0001	0.0706 (a)	0.5498 (a)	0.9033 (a)	0.999	1.000	0.009	100%
Strontium	0.005	0.3404 (a)	0.2683 (a)	0.5498 (a)	0.933	0.999	0.001	100%
Vanadium	0.000	0.926	0.999	1.000	0.0152 (a)	0.0086 (a)	<.0001	95%
Zinc	0.555	0.789	0.279	0.783	0.778	0.986	0.357	100%

Notes:

- Dunnett's test is one-sided: Is site greater than the reference (ER_R or CR_R)?
- Wilcoxon Mann-Whitney Results are used if HOV from Leven's Test is less than 0.01.
- LERM2.0 excluded; only sampled in spring.

* - Excludes samaples KIF-ERM8.0_BG.F.G.01-FH-051110 and KIF-ERM8.0_BG.F.G.03-FH-051110; these samples had elevated non-detects.

(a) - Wilcoxon Mann-Whitney Test

(b) - Based on non-detects; not considered significant

- p < 0.05 or 0.05 < p < 0.1

FOD - frequency of detection

HOV - Homogeneity of Variance Test

PCB - polychlorinated biphenyl

CR_A - Clinch Reach A

CR_B - Clinch Reach B

CR_R - Clinch River Reference Reach

ER_A - Emory Reach A

ER_B - Emory Reach B

ER_C - Emory Reach C

ER_R - Emory River Reference Reach

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Table 9. Results of Spatial Analysis for Liver Samples (2010 Sampling Events)

Tennessee Valley Authority **Kingston, Tennessee**

Analyte	Model	Dunnett One-sided Test			HOV	FOD
		CR_A vs. CR_R	ER_A vs. ER_R	ER_B vs. ER_R		
Bluegill Liver 2010 only log-transformed data						
Aluminum	0.245	0.085	0.868	0.829	0.022	100%
Antimony	0.134	0.0525 (a)	0.996	0.996	0.003	74%
Arsenic	0.009	0.016	0.053	0.032	0.103	100%
Barium	0.710	0.437	0.986	0.734	0.016	79%
Boron	0.649	0.623	0.985	0.997	0.527	53%
Cadmium	0.063	0.051	0.062	0.518	0.148	100%
Chromium	0.465	0.133	0.942	0.871	0.082	100%
Cobalt	0.922	0.676	0.947	0.893	0.027	100%
Copper	0.486	0.225	0.987	0.977	0.571	100%
Iron	0.167	0.799	0.983	1.000	0.811	100%
Lead	0.810	0.303	0.868	0.902	0.600	100%
Magnesium	0.069	0.954	0.930	0.724	0.099	100%
Manganese	0.198	0.319	0.999	0.999	0.313	100%
Molybdenum	0.744	0.931	0.350	0.586	0.573	100%
Selenium	0.018	0.297	0.041	0.004	0.499	100%
Silver	0.262	0.685	0.968	0.877	0.0075 (a)	42%
Thallium	<.0001	0.000	0.000	<.0001	0.528	100%
Vanadium	0.035	0.012	0.947	0.260	0.061	100%
Zinc	0.347	0.868	0.110	0.366	0.017	100%
Largemouth Bass Liver 2010 only log-transformed data						
Aluminum	0.435	0.256	0.285	0.548	0.169	100%
Antimony	0.010	0.809	1.000	1.000	0.027	90%
Arsenic	0.346	0.582	0.448	0.922	0.329	100%
Barium	0.574	0.815	0.936	0.302	0.638	95%
Boron	0.593	0.973	0.994	0.913	0.486	43%
Cadmium	0.582	0.394	0.290	0.606	0.207	100%
Chromium	0.343	0.575	0.995	0.919	0.039	100%
Cobalt	0.139	0.737	0.996	0.996	0.378	100%
Copper	0.294	0.091	0.933	0.993	0.126	100%
Iron	0.090	0.198	1.000	0.997	0.316	100%
Lead	0.287	0.196	0.935	0.347	0.649	100%
Magnesium	0.996	0.715	0.908	0.845	0.043	100%
Manganese	0.200	0.263	0.913	0.493	0.654	100%
Molybdenum	0.223	0.039	0.797	0.855	0.679	100%
Selenium	0.071	0.877	0.129	0.866	0.331	100%
Silver	0.252	0.987	0.998	0.998	0.179	71%
Thallium	0.036	0.881	0.012	0.030	0.299	100%
Vanadium	0.239	0.150	0.162	0.689	0.776	100%
Zinc	0.625	0.172	0.833	0.853	0.157	100%

Notes:

- Dunnett's test is one-sided: Is site greater than the reference (ER_R or CR_R)?
- Wilcoxon Mann-Whitney Results are used if HOV from Leven's Test is less than 0.01.

(a) - Based on non-detects; not considered significant

- $p < 0.05$ or $0.05 < p < 0.1$

FOD - frequency of detection

HOV - Homogeneity of Variance Test

CR_A - Clinch Reach A

CR_R - Clinch River Reference Reach

ER_A - Emory Reach A

ER_B - Emory Reach B

ER_R - Emory River Reference Reach

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Table 10. Results of Spatial Analysis for Ovary Samples (2010 Sampling Events)

Tennessee Valley Authority **Kingston, Tennessee**

Analyte	Model	Dunnett One-sided Test			HOV	FOD
		CR_A vs. CR_R	ER_A vs. ER_R	ER_B vs. ER_R		
Bluegill Ovary 2010 only log-transformed data						
Aluminum	0.122	0.029	0.649	0.981	0.043	100%
Arsenic	0.003	0.009	0.122	0.368	0.365	100%
Barium	0.330	0.157	0.984	0.990	0.749	100%
Cadmium	0.737	0.538	0.990	0.991	0.710	97%
Chromium	0.098	0.482	1.000	0.999	0.573	100%
Cobalt	0.394	0.314	0.993	0.998	0.472	100%
Copper	0.079	0.531	0.971	1.000	0.164	100%
Iron	0.040	0.307	0.999	1.000	0.665	100%
Magnesium	0.090	0.631	0.598	1.000	0.050	100%
Manganese	0.140	0.079	0.662	0.997	0.598	100%
Molybdenum	0.007	0.014	0.992	0.997	0.187	100%
Selenium	0.138	0.151	0.103	0.693	0.060	100%
Thallium	<.0001	0.000	0.001	0.002	0.039	100%
Zinc	0.158	0.484	0.988	1.000	0.087	100%
Largemouth Bass Ovary 2010 only log-transformed data						
Aluminum	0.126	0.116	1.000	0.905	0.145	100%
Arsenic	0.001	0.782	0.006	0.611	0.642	100%
Barium	0.048	0.221	0.178	0.037	0.095	100%
Cadmium	0.131	0.981	0.085	0.149	0.148	100%
Chromium	0.971	0.577	0.949	0.873	0.295	100%
Cobalt	0.183	0.947	0.997	0.928	0.682	100%
Copper	0.029	0.030	0.302	0.245	0.422	100%
Iron	0.317	0.523	0.997	0.996	0.394	100%
Magnesium	0.071	0.366	0.250	0.856	0.302	100%
Manganese	0.644	0.625	0.533	0.252	0.388	100%
Molybdenum	0.007	0.002	0.998	0.597	0.544	100%
Selenium	0.007	0.689 (a)	0.001 (a)	0.004 (a)	0.009	100%
Thallium	0.002	0.661	0.001	0.004	0.453	100%
Zinc	0.748	0.457	0.737	0.982	0.434	100%

Notes:

- Dunnett's test is one-sided: Is site greater than the reference (ER_R or CR_R)?
- Wilcoxon Mann-Whitney Results are used if HOV from Leven's Test is less than 0.01.

(a) - Wilcoxon Mann-Whitney Test

- $p < 0.05$ or $0.05 < p < 0.1$

FOD - frequency of detection

HOV - Homogeneity of Variance Test

CR_A - Clinch Reach A

CR_R - Clinch River Reference Reach

ER_A - Emory Reach A

ER_B - Emory Reach B

ER_R - Emory River Reference Reach

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Table 11. Summary of All Statistical Results (2010 Sampling Events)

Tennessee Valley Authority **Kingston, Tennessee**

					Trace Metals													
Species	**Reach**	**River Mile**	**Tissue Type**	**N**	**Aluminum**	**Antimony**	**Arsenic**	**Barium**	**Beryllium**	**Boron**	**Cadmium**	**Chromium**	**Cobalt**	**Copper**	**Iron**	**Lead**	**Magnesium**	**Manganese**
Bluegill	ER-C	ERM4.5	Fillet	11	%	%	X	X	%	%	%	%	%	Y	%	%		X
Channel Catfish	ER-C	ERM4.5	Fillet	12	%	%			%	%	%	%	%		%	%		X
Largemouth Bass	ER-C	ERM4.5	Fillet	12	%	%	X	%	%	%	%	%	%	X	%	%		X
Bluegill	ER-B	ERM3.0	Fillet	12	%	%	X		%	%	%	%	%	X	%	%		
Channel Catfish	ER-B	ERM2.0, ERM3.0	Fillet	13	%	%			%	%	%	%	%		%	%		
Largemouth Bass	ER-B	ERM3.0	Fillet	13	%	%	X	%	%	%	%	%	%		%	%		
Bluegill	ER-A	ERM0.9	Fillet	11	%	%	X		%	%	%	%	%	X	%	%		
Channel Catfish	ER-A	ERM0.9	Fillet	11	%	%			%	%	%	%	%	X	%	%		
Largemouth Bass	ER-A	ERM0.9	Fillet	12	%	%	X	%	%	%	%	%	%		%	%		
Bluegill	CR-B	CRM3.5	Fillet	13	%	%	X		%	%	%	%	%		%	%	X	
Channel Catfish	CR-B	CRM3.5	Fillet	11	%	%			%	%	%	%	%		%	%		
Largemouth Bass	CR-B	CRM3.5	Fillet	12	%	%		%	%	%	%	%	%		%	%	Y	Y
Bluegill	CR-A	CRM1.5	Fillet	12	%	%			%	%	%	%	%		%	%		
Channel Catfish	CR-A	CRM1.5	Fillet	12	%	%			%	%	%	%	%		%	%		
Largemouth Bass	CR-A	CRM1.5	Fillet	12	%	%		%	%	%	%	%	%		%	%		
Bluegill	ER-B	ERM3.0	Liver	3			X		%									
Largemouth Bass	ER-B	ERM3.0	Liver	3					%									
Bluegill	ER-A	ERM0.9	Liver	3			Y		%		Y							
Largemouth Bass	ER-A	ERM0.9	Liver	3					%									
Bluegill	CR-A	CRM1.5	Liver	3	Y		X		%		Y							
Largemouth Bass	CR-A	CRM1.5	Liver	3					%					Y				
Bluegill	ER-B	ERM3.0	Ovary	5		%			%	%						%		
Largemouth Bass	ER-B	ERM3.0	Ovary	5		%		X	%	%						%		
Bluegill	ER-A	ERM0.9	Ovary	5		%			%	%						%		
Largemouth Bass	ER-A	ERM0.9	Ovary	5		%	X		%	%	Y					%		
Bluegill	CR-A	CRM1.5	Ovary	5	X	%	X		%	%						%		Y
Largemouth Bass	CR-A	CRM1.5	Ovary	5		%			%	%				X		%		
Gizzard Shad WB w/o Gut	ER-C	ERM4.5	WB w/o Gut	8		%			%	%		%						
Gizzard Shad WB w/o Gut	ER-B	ERM2.5, ERM3.0	WB w/o Gut	6		%	X		%	%		%						
Gizzard Shad WB w/o Gut	ER-A	ERM0.9	WB w/o Gut	6		%	X		%	%		%						
Gizzard Shad WB w/o Gut	CR-B	CRM3.5	WB w/o Gut	9		%			%	%		%			X			
Gizzard Shad WB w/o Gut	CR-A	CRM1.5	WB w/o Gut	9		%			%	%		%						
Bluegill	ER-C	ERM4.5	Whole Body	3		%	Y	Y	%	%	Y							
Gizzard Shad	ER-C	ERM4.5	Whole Body	6		%			%	%								
Bluegill	ER-B	ERM2.0	Whole Body	4	Y	%	X		%	%	Y							
Gizzard Shad	ER-B	ERM2.5, ERM3.0	Whole Body	6		%	X		%	%								
Bluegill	ER-A	ERM0.9	Whole Body	3	X	%	Y		%	%	X		Y					
Gizzard Shad	ER-A	ERM0.9	Whole Body	3		%	Y		%	%								
Bluegill	CR-B	CRM3.5	Whole Body	8		%	X		%	%	X			X				
Gizzard Shad	CR-B	CRM3.5	Whole Body	6	X	%	X	X	%	%		X	X		X	X		
Bluegill	CR-A	CRM1.5	Whole Body	3	Y	%	Y	Y	%	%	X		Y	Y		Y	Y	
Gizzard Shad	CR-A	CRM1.5	Whole Body	6	X	%	X	X	%	%	X	X	X		X	X		

Notes:

X = p < 0.05

Y = 0.05 < p < 0.1

% = frequency of detection is less than 20 percent and is not included in analysis

= significant p value

Blank cells = insignificant p value

"--" - not anlyzed

WB w/o Gut - whole body (minus gut content)

CR_A - Clinch Reach A

CR_B - Clinch Reach B

CRM - Clinch River Mile

ER_A - Emory Reach A

ER_B - Emory Reach B

ER_C - Emory Reach C

ERM - Emory River Mile

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Table 11. Summary of All Statistical Results (2010 Sampling Events)

Tennessee Valley Authority Kingston, Tennessee

				Trace Metals										Legacy Constituents				
Species	**Reach**	**River Mile**	**Tissue Type**	**N**	**Mercury**	**Molybdenum**	**Nickel**	**Selenium**	**Silver**	**Strontium**	**Thallium**	**Vanadium**	**Zinc**	**N**	**Aroclor 1254**	**Aroclor 1260**	**Alpha-Chlordane**	**Gamma-Chlordane**
Bluegill	ER-C	ERM4.5	Fillet	11		%	%	X	%	X	%	%		0	--	--	--	--
Channel Catfish	ER-C	ERM4.5	Fillet	12		%			%	X	%	%		2				
Largemouth Bass	ER-C	ERM4.5	Fillet	12		%	%	X	%	X	%	%	X	2	Y			%
Bluegill	ER-B	ERM3.0	Fillet	12		%	%	X	%	Y	%	%		0	--	--	--	--
Channel Catfish	ER-B	ERM2.0, ERM3.0	Fillet	13		%		X	%		%	%		3				
Largemouth Bass	ER-B	ERM3.0	Fillet	13		%	%	X	%		%	%	Y	3				%
Bluegill	ER-A	ERM0.9	Fillet	11		%	%	X	%		%	%	X	0	--	--	--	--
Channel Catfish	ER-A	ERM0.9	Fillet	11		%		X	%		%	%		3				
Largemouth Bass	ER-A	ERM0.9	Fillet	12		%	%	X	%	Y	%	%	X	4				%
Bluegill	CR-B	CRM3.5	Fillet	13		%	%	X	%		%	%		0	--	--	--	--
Channel Catfish	CR-B	CRM3.5	Fillet	11		%			%		%	%		2				
Largemouth Bass	CR-B	CRM3.5	Fillet	12		%	%	X	%	X	%	%		2				%
Bluegill	CR-A	CRM1.5	Fillet	12		%	%	X	%		%	%		0	--	--	--	--
Channel Catfish	CR-A	CRM1.5	Fillet	12		%		Y	%		%	%		3				
Largemouth Bass	CR-A	CRM1.5	Fillet	12		%	%		%		%	%		3				%
Bluegill	ER-B	ERM3.0	Liver	3	--		%	X		--	X			0	--	--	--	--
Largemouth Bass	ER-B	ERM3.0	Liver	3	--		%			--	X			0	--	--	--	--
Bluegill	ER-A	ERM0.9	Liver	3	--		%	X		--	X			0	--	--	--	--
Largemouth Bass	ER-A	ERM0.9	Liver	3	--		%			--	X			0	--	--	--	--
Bluegill	CR-A	CRM1.5	Liver	3	--		%			--	X	X		0	--	--	--	--
Largemouth Bass	CR-A	CRM1.5	Liver	3	--	X	%			--				0	--	--	--	--
Bluegill	ER-B	ERM3.0	Ovary	5	--		%		%	--	X	%		0	--	--	--	--
Largemouth Bass	ER-B	ERM3.0	Ovary	5	--		%	X	%	--	X	%		0	--	--	--	--
Bluegill	ER-A	ERM0.9	Ovary	5	--		%		%	--	X	%		0	--	--	--	--
Largemouth Bass	ER-A	ERM0.9	Ovary	5	--		%	X	%	--	X	%		0	--	--	--	--
Bluegill	CR-A	CRM1.5	Ovary	5	--	X	%		%	--	X	%		0	--	--	--	--
Largemouth Bass	CR-A	CRM1.5	Ovary	5	--	X	%		%	--		%		0	--	--	--	--
Gizzard Shad WB w/o Gut	ER-C	ERM4.5	WB w/o Gut	8		%		Y	%		%			0	--	--	--	--
Gizzard Shad WB w/o Gut	ER-B	ERM2.5, ERM3.0	WB w/o Gut	6		%		Y	%		%	Y	X	0	--	--	--	--
Gizzard Shad WB w/o Gut	ER-A	ERM0.9	WB w/o Gut	6		%			%		%		Y	0	--	--	--	--
Gizzard Shad WB w/o Gut	CR-B	CRM3.5	WB w/o Gut	9		%			%		%			0	--	--	--	--
Gizzard Shad WB w/o Gut	CR-A	CRM1.5	WB w/o Gut	9		%			%		%			0	--	--	--	--
Bluegill	ER-C	ERM4.5	Whole Body	3				Y	%		%			0	--	--	--	--
Gizzard Shad	ER-C	ERM4.5	Whole Body	6		%					%			0	--	--	--	--
Bluegill	ER-B	ERM2.0	Whole Body	4		X		X	%		%	X		0	--	--	--	--
Gizzard Shad	ER-B	ERM2.5, ERM3.0	Whole Body	6		%		Y			%			0	--	--	--	--
Bluegill	ER-A	ERM0.9	Whole Body	3		X		Y	%		%	X		0	--	--	--	--
Gizzard Shad	ER-A	ERM0.9	Whole Body	3		%					%			0	--	--	--	--
Bluegill	CR-B	CRM3.5	Whole Body	8		X		X	%		%	Y		0	--	--	--	--
Gizzard Shad	CR-B	CRM3.5	Whole Body	6		%					%	X		0	--	--	--	--
Bluegill	CR-A	CRM1.5	Whole Body	3				Y	%	X	%	X	X	0	--	--	--	--
Gizzard Shad	CR-A	CRM1.5	Whole Body	6	X	%	Y		Y		%	X		0	--	--	--	--

Notes:

X = p < 0.05

Y = 0.05 < p < 0.1

% = frequency of detection is less than 20 percent and is not included in analysis

= significant p value

Blank cells = insignificant p value

"--" - not anlyzed

WB w/o Gut - whole body (minus gut content)

CR_A - Clinch Reach A

CR_B - Clinch Reach B

CRM - Clinch River Mile

ER_A - Emory Reach A

ER_B - Emory Reach B

ER_C - Emory Reach C

ERM - Emory River Mile

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Table 12. Summary of Significant Results (Spatial Analyses) for Fillet

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Arsenic	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.06	-	0.11	0.0840	0.0213	p < 0.05
Bluegill	Arsenic	Inorganic	ER_C	Fall 2010	3	/	5	mg/kg	0.03	-	0.04	0.0326	0.0060	p < 0.05
Bluegill	Arsenic	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.06	-	0.09	0.0725	0.0127	p < 0.05
Bluegill	Arsenic	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.05	-	0.14	0.0910	0.0356	p < 0.05
Bluegill	Arsenic	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.04	-	0.15	0.0822	0.0432	p < 0.05
Bluegill	Arsenic	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.05	-	0.24	0.1180	0.0726	p < 0.05
Bluegill	Arsenic	Inorganic	CR_B	Spring 2010	4	/	6	mg/kg	0.14	-	0.23	0.1590	0.0388	p < 0.05
Bluegill	Arsenic	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	0.09	-	0.29	0.1416	0.0698	p < 0.05
Bluegill	Barium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.05	-	0.27	0.1606	0.0766	p < 0.05
Bluegill	Barium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.08	-	0.30	0.1964	0.0890	p < 0.05
Bluegill	Copper	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.25	-	0.38	0.3195	0.0556	0.05 < p < 0.1
Bluegill	Copper	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.18	-	0.34	0.2580	0.0576	0.05 < p < 0.1
Bluegill	Copper	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.18	-	0.53	0.3322	0.1157	p < 0.05
Bluegill	Copper	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.22	-	0.41	0.2750	0.0836	p < 0.05
Bluegill	Copper	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.24	-	0.40	0.3030	0.0657	p < 0.05
Bluegill	Copper	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.31	-	0.94	0.5050	0.2275	p < 0.05
Bluegill	Manganese	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.58	-	2.23	1.8045	0.6159	p < 0.05
Bluegill	Manganese	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.53	-	4.20	2.0660	1.3729	p < 0.05
Bluegill	Selenium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.45	-	0.68	0.5791	0.0983	p < 0.05
Bluegill	Selenium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.43	-	0.64	0.5500	0.0768	p < 0.05
Bluegill	Selenium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.63	-	1.13	0.8481	0.1682	p < 0.05
Bluegill	Selenium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.56	-	0.82	0.6883	0.1137	p < 0.05
Bluegill	Selenium	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.55	-	0.89	0.7342	0.1478	p < 0.05
Bluegill	Selenium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.72	-	1.10	0.8800	0.1273	p < 0.05
Bluegill	Selenium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.64	-	0.90	0.7771	0.1059	p < 0.05
Bluegill	Selenium	Inorganic	CR_B	Fall 2010	7	/	7	mg/kg	0.51	-	1.30	1.0600	0.2778	p < 0.05
Bluegill	Selenium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.64	-	1.06	0.8095	0.1413	p < 0.05
Bluegill	Selenium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	1.09	-	1.53	1.3132	0.1725	p < 0.05
Bluegill	Strontium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.14	-	1.31	0.6961	0.4514	p < 0.05
Bluegill	Strontium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.74	-	3.30	2.1080	1.0735	p < 0.05
Bluegill	Strontium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.39	-	5.60	1.7118	2.0299	0.05 < p < 0.1
Bluegill	Strontium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.15	-	0.88	0.5500	0.3084	0.05 < p < 0.1
Bluegill	Zinc	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	11.28	-	21.66	15.9540	4.0658	p < 0.05
Bluegill	Zinc	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	12.70	-	15.30	14.1500	0.8550	p < 0.05
Channel Catfish	Copper	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.27	-	10.30	3.0162	4.3516	p < 0.05
Channel Catfish	Copper	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.28	-	0.65	0.4236	0.1665	p < 0.05
Channel Catfish	Manganese	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.22	-	1.71	0.7801	0.5977	p < 0.05
Channel Catfish	Manganese	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.19	-	4.50	0.9867	1.7224	p < 0.05
Channel Catfish	Selenium	Inorganic	ER_B	Spring 2010	7	/	7	mg/kg	0.24	-	0.48	0.3587	0.0921	p < 0.05
Channel Catfish	Selenium	Inorganic	ER_B	Fall 2010	6	/	6	mg/kg	0.25	-	0.44	0.3717	0.0691	p < 0.05
Channel Catfish	Selenium	Inorganic	ER_A	Spring 2010	5	/	5	mg/kg	0.29	-	0.44	0.3675	0.0543	p < 0.05
Channel Catfish	Selenium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.29	-	0.53	0.3796	0.0828	p < 0.05
Channel Catfish	Selenium	Inorganic	CR_A	Spring 2010	6	/	6	mg/kg	0.25	-	0.49	0.3817	0.0808	0.05 < p < 0.1
Channel Catfish	Selenium	Inorganic	CR_A	Fall 2010	6	/	6	mg/kg	0.06	-	0.43	0.2305	0.1709	0.05 < p < 0.1
Channel Catfish	Strontium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.29	-	2.39	0.8794	0.8105	p < 0.05
Channel Catfish	Strontium	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.13	-	3.10	0.7000	1.1776	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.11	-	0.24	0.1658	0.0443	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.21	-	0.41	0.2983	0.0688	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.13	-	0.20	0.1671	0.0227	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	0.16	-	0.30	0.2086	0.0641	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	0.07	-	0.37	0.2763	0.1144	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.14	-	0.38	0.3017	0.0859	p < 0.05
Largemouth Bass	Copper	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.20	-	0.62	0.3735	0.1873	p < 0.05
Largemouth Bass	Copper	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.28	-	4.20	1.6883	1.9586	p < 0.05
Largemouth Bass	Manganese	Inorganic	ER_C	Spring 2010	3	/	6	mg/kg	0.18	-	0.25	0.1839	0.0313	p < 0.05
Largemouth Bass	Manganese	Inorganic	ER_C	Fall 2010	5	/	6	mg/kg	0.18	-	0.95	0.3733	0.2953	p < 0.05

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
RL - reporting limit

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Table 12. Summary of Significant Results (Spatial Analyses) for Fillet

Tennessee Valley Authority Kingston, Tennessee

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Largemouth Bass	Manganese	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.23	-	2.72	0.6891	0.9959	0.05 < p < 0.1
Largemouth Bass	Manganese	Inorganic	CR_B	Fall 2010	1	/	6	mg/kg	0.19	-	0.19	0.1700	0.0141	0.05 < p < 0.1
Largemouth Bass	PCB-1254	PCB	ER_C	Spring 2010	1	/	2	ug/kg	213.00	-	213.00	131.5000	115.2584	0.05 < p < 0.1
Largemouth Bass	Selenium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.37	-	0.69	0.5265	0.1178	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.46	-	0.76	0.6200	0.1296	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	0.45	-	0.88	0.6575	0.1390	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	0.70	-	0.85	0.7614	0.0540	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	0.50	-	0.73	0.6174	0.0738	p < 0.05
Largemouth Bass	Selenium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.66	-	0.81	0.7483	0.0519	p < 0.05
Largemouth Bass	Selenium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.48	-	0.66	0.5626	0.0825	p < 0.05
Largemouth Bass	Selenium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.62	-	0.91	0.7300	0.1077	p < 0.05
Largemouth Bass	Strontium	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	0.08	-	0.98	0.4297	0.3975	p < 0.05
Largemouth Bass	Strontium	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	0.51	-	5.10	1.6333	1.7578	p < 0.05
Largemouth Bass	Strontium	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	0.07	-	0.36	0.1926	0.1147	0.05 < p < 0.1
Largemouth Bass	Strontium	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	0.12	-	0.75	0.3000	0.2272	0.05 < p < 0.1
Largemouth Bass	Strontium	Inorganic	CR_B	Spring 2010	6	/	6	mg/kg	0.55	-	15.82	3.8428	5.9317	p < 0.05
Largemouth Bass	Strontium	Inorganic	CR_B	Fall 2010	6	/	6	mg/kg	0.12	-	0.57	0.2767	0.1631	p < 0.05
Largemouth Bass	Zinc	Inorganic	ER_C	Spring 2010	6	/	6	mg/kg	5.78	-	12.91	9.5628	2.3608	p < 0.05
Largemouth Bass	Zinc	Inorganic	ER_C	Fall 2010	6	/	6	mg/kg	7.90	-	15.40	11.0000	2.7878	p < 0.05
Largemouth Bass	Zinc	Inorganic	ER_B	Spring 2010	6	/	6	mg/kg	4.97	-	10.58	7.3233	1.9651	0.05 < p < 0.1
Largemouth Bass	Zinc	Inorganic	ER_B	Fall 2010	7	/	7	mg/kg	7.70	-	15.60	11.3857	2.6277	0.05 < p < 0.1
Largemouth Bass	Zinc	Inorganic	ER_A	Spring 2010	6	/	6	mg/kg	5.67	-	13.95	8.4265	2.8968	p < 0.05
Largemouth Bass	Zinc	Inorganic	ER_A	Fall 2010	6	/	6	mg/kg	9.10	-	20.30	12.7500	4.0248	p < 0.05

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
RL - reporting limit

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Table 13. Summary of Significant Results (Spatial Analyses) for Whole Body Samples

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill		Aluminum	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	39.84	-	149.70	90.7125	54.0726	0.05 < p < 0.1
Bluegill		Aluminum	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	58.19	-	221.20	126.8633	84.4809	p < 0.05
Bluegill		Aluminum	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	54.97	-	453.40	189.1400	228.8650	0.05 < p < 0.1
Bluegill		Arsenic	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.15	-	0.17	0.1532	0.0107	0.05 < p < 0.1
Bluegill		Arsenic	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.26	-	0.35	0.3066	0.0428	p < 0.05
Bluegill		Arsenic	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.32	-	0.40	0.3466	0.0475	0.05 < p < 0.1
Bluegill		Arsenic	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.23	-	0.31	0.2730	0.0271	p < 0.05
Bluegill		Arsenic	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.28	-	0.73	0.4380	0.2554	0.05 < p < 0.1
Bluegill		Barium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	2.31	-	2.69	2.4627	0.2025	0.05 < p < 0.1
Bluegill		Barium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	1.85	-	6.53	3.5067	2.6200	0.05 < p < 0.1
Bluegill		Cadmium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.01	-	0.01	0.0127	0.0002	0.05 < p < 0.1
Bluegill		Cadmium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.01	-	0.02	0.0126	0.0025	0.05 < p < 0.1
Bluegill		Cadmium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.01	-	0.02	0.0152	0.0012	p < 0.05
Bluegill		Cadmium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.01	-	0.02	0.0150	0.0036	p < 0.05
Bluegill		Cadmium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.02	-	0.04	0.0239	0.0130	p < 0.05
Bluegill		Cobalt	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.06	-	0.19	0.1200	0.0668	0.05 < p < 0.1
Bluegill		Cobalt	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.06	-	0.32	0.1464	0.1509	0.05 < p < 0.1
Bluegill		Copper	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.45	-	2.11	0.8644	0.5470	p < 0.05
Bluegill		Copper	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.50	-	1.40	0.8519	0.4785	0.05 < p < 0.1
Bluegill		Lead	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.09	-	0.48	0.2222	0.2241	0.05 < p < 0.1
Bluegill		Molybdenum	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.05	-	0.06	0.0546	0.0050	p < 0.05
Bluegill		Molybdenum	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.05	-	0.08	0.0670	0.0155	p < 0.05
Bluegill		Molybdenum	Inorganic	CR_B	Spring 2010	4	/	8	mg/kg	0.04	-	0.06	0.0557	0.0146	p < 0.05
Bluegill		Selenium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.41	-	0.44	0.4268	0.0117	0.05 < p < 0.1
Bluegill		Selenium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.58	-	0.91	0.7243	0.1617	p < 0.05
Bluegill		Selenium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.71	-	1.03	0.8885	0.1599	0.05 < p < 0.1
Bluegill		Selenium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.64	-	0.93	0.7621	0.1276	p < 0.05
Bluegill		Selenium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.77	-	0.92	0.8268	0.0788	0.05 < p < 0.1
Bluegill		Strontium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	15.87	-	20.83	18.7600	2.5797	p < 0.05
Bluegill		Vanadium	Inorganic	ER_B	Spring 2010	4	/	4	mg/kg	0.20	-	0.48	0.3376	0.1453	p < 0.05

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
RL - reporting limit

ARCADIS

Table 13. Summary of Significant Results (Spatial Analyses) for Whole Body Samples

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill		Vanadium	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.23	-	0.62	0.4129	0.1988	p < 0.05
Bluegill		Vanadium	Inorganic	CR_B	Spring 2010	8	/	8	mg/kg	0.09	-	0.29	0.2026	0.0724	0.05 < p < 0.1
Bluegill		Vanadium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.26	-	1.31	0.6138	0.5986	p < 0.05
Bluegill		Zinc	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	39.44	-	46.49	43.4633	3.6291	p < 0.05
Gizzard Shad		Aluminum	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	227.00	-	405.60	331.0333	92.8747	p < 0.05
Gizzard Shad		Aluminum	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	132.00	-	147.00	139.6667	7.5056	p < 0.05
Gizzard Shad		Aluminum	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	101.00	-	244.40	174.5667	71.7729	p < 0.05
Gizzard Shad		Aluminum	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	359.00	-	661.00	515.6667	151.3186	p < 0.05
Gizzard Shad		Arsenic	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.45	-	0.99	0.7362	0.2734	p < 0.05
Gizzard Shad		Arsenic	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.43	-	0.48	0.4533	0.0252	p < 0.05
Gizzard Shad		Arsenic	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.42	-	0.45	0.4358	0.0141	0.05 < p < 0.1
Gizzard Shad		Arsenic	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.46	-	0.81	0.6467	0.1736	p < 0.05
Gizzard Shad		Arsenic	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.59	-	0.63	0.6067	0.0208	p < 0.05
Gizzard Shad		Arsenic	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.37	-	0.55	0.4676	0.0941	p < 0.05
Gizzard Shad		Arsenic	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.79	-	1.10	0.9633	0.1582	p < 0.05
Gizzard Shad		Barium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	5.27	-	6.68	5.7667	0.7936	p < 0.05
Gizzard Shad		Barium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	3.70	-	4.20	3.9667	0.2517	p < 0.05
Gizzard Shad		Barium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	4.15	-	6.15	5.0070	1.0295	p < 0.05
Gizzard Shad		Barium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	6.80	-	9.30	8.4000	1.3892	p < 0.05
Gizzard Shad		Cadmium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.02	-	0.02	0.0189	0.0031	p < 0.05
Gizzard Shad		Cadmium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.01	-	0.02	0.0133	0.0031	p < 0.05
Gizzard Shad		Chromium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.56	-	1.10	0.9180	0.3110	p < 0.05
Gizzard Shad		Chromium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.25	-	0.28	0.2667	0.0153	p < 0.05
Gizzard Shad		Chromium	Inorganic	CR_A	Spring 2010	2	/	3	mg/kg	0.38	-	0.39	0.3383	0.0750	p < 0.05
Gizzard Shad		Chromium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.60	-	1.00	0.8233	0.2040	p < 0.05
Gizzard Shad		Cobalt	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.19	-	0.42	0.3192	0.1151	p < 0.05
Gizzard Shad		Cobalt	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.15	-	0.17	0.1567	0.0115	p < 0.05
Gizzard Shad		Cobalt	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.11	-	0.18	0.1464	0.0361	p < 0.05
Gizzard Shad		Cobalt	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.28	-	0.44	0.3767	0.0850	p < 0.05
Gizzard Shad		Lead	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.29	-	0.83	0.6346	0.2981	p < 0.05

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
RL - reporting limit

ARCADIS

Table 13. Summary of Significant Results (Spatial Analyses) for Whole Body Samples

Tennessee Valley Authority Kingston, Tennessee

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Gizzard Shad		Lead	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.15	-	0.19	0.1700	0.0200	p < 0.05
Gizzard Shad		Lead	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.17	-	0.31	0.2505	0.0725	p < 0.05
Gizzard Shad		Lead	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.39	-	0.69	0.5733	0.1607	p < 0.05
Gizzard Shad		Mercury	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.01	-	0.03	0.0205	0.0065	p < 0.05
Gizzard Shad		Mercury	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.02	-	0.03	0.0270	0.0070	p < 0.05
Gizzard Shad		Nickel	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.27	-	0.34	0.3003	0.0339	0.05 < p < 0.1
Gizzard Shad		Nickel	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.50	-	2.70	1.3633	1.1739	0.05 < p < 0.1
Gizzard Shad		Selenium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.49	-	0.62	0.5615	0.0652	0.05 < p < 0.1
Gizzard Shad		Selenium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.68	-	0.81	0.7400	0.0656	0.05 < p < 0.1
Gizzard Shad		Silver	Inorganic	CR_A	Spring 2010	2	/	3	mg/kg	0.00	-	0.00	0.0032	0.0003	0.05 < p < 0.1
Gizzard Shad		Silver	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.00	-	0.01	0.0052	0.0027	0.05 < p < 0.1
Gizzard Shad		Vanadium	Inorganic	CR_B	Spring 2010	3	/	3	mg/kg	0.53	-	0.99	0.7676	0.2270	p < 0.05
Gizzard Shad		Vanadium	Inorganic	CR_B	Fall 2010	3	/	3	mg/kg	0.40	-	0.44	0.4233	0.0208	p < 0.05
Gizzard Shad		Vanadium	Inorganic	CR_A	Spring 2010	3	/	3	mg/kg	0.25	-	0.65	0.4638	0.2017	p < 0.05
Gizzard Shad		Vanadium	Inorganic	CR_A	Fall 2010	3	/	3	mg/kg	0.85	-	1.50	1.2167	0.3329	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.1887	-	0.4237	0.2738	0.1302	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.34	-	0.37	0.3533	0.0153	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	0.2795	-	0.3052	0.2902	0.0134	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	0.28	-	0.35	0.3167	0.0351	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	Spring 2010	3	/	3	mg/kg	0.3961	-	0.4063	0.3995	0.0059	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	Fall 2010	5	/	5	mg/kg	0.49	-	0.64	0.5820	0.0614	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.4218	-	0.5434	0.4778	0.0614	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.54	-	0.56	0.5533	0.0115	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	0.1332	-	0.3791	0.2544	0.1230	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	0.071	-	0.082	0.0767	0.0055	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	Spring 2010	3	/	3	mg/kg	15.45	-	16.81	16.2333	0.7032	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	Fall 2010	3	/	3	mg/kg	22.6	-	24.2	23.4667	0.8083	p < 0.05
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	Spring 2010	3	/	3	mg/kg	18.71	-	19.38	19.1000	0.3483	0.05 < p < 0.1
Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	Fall 2010	3	/	3	mg/kg	15.7	-	23.7	18.9333	4.2147	0.05 < p < 0.1

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
RL - reporting limit

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Table 14. Summary of Significant Results (Spatial Analyses) for Liver Samples

Tennessee Valley Authority **Kingston, Tennessee**

Species	Tissue Type	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Liver	Aluminum	Inorganic	CR_A	2010	3	/	3	mg/kg	14.00	-	35.00	17.3333	16.2583	0.05 < p < 0.1
Bluegill	Liver	Arsenic	Inorganic	ER_B	2010	3	/	3	mg/kg	0.32	-	0.52	0.3933	0.1102	p < 0.05
Bluegill	Liver	Arsenic	Inorganic	ER_A	2010	3	/	3	mg/kg	0.31	-	0.44	0.3533	0.0751	0.05 < p < 0.1
Bluegill	Liver	Arsenic	Inorganic	CR_A	2010	3	/	3	mg/kg	0.25	-	1.10	0.7667	0.4537	p < 0.05
Bluegill	Liver	Cadmium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.24	-	0.28	0.2667	0.0231	0.05 < p < 0.1
Bluegill	Liver	Cadmium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.14	-	0.44	0.3367	0.1704	0.05 < p < 0.1
Bluegill	Liver	Selenium	Inorganic	ER_B	2010	3	/	3	mg/kg	1.90	-	2.90	2.3667	0.5033	p < 0.05
Bluegill	Liver	Selenium	Inorganic	ER_A	2010	3	/	3	mg/kg	1.70	-	2.50	2.0000	0.4359	p < 0.05
Bluegill	Liver	Thallium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.06	-	0.13	0.1047	0.0356	p < 0.05
Bluegill	Liver	Thallium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.07	-	0.09	0.0803	0.0091	p < 0.05
Bluegill	Liver	Thallium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.08	-	0.10	0.0927	0.0092	p < 0.05
Bluegill	Liver	Vanadium	Inorganic	CR_A	2010	3	/	3	mg/kg	0.21	-	0.82	0.4633	0.3179	p < 0.05
Largemouth Bass	Liver	Copper	Inorganic	CR_A	2010	3	/	3	mg/kg	4.00	-	9.30	7.1667	2.7970	0.05 < p < 0.1
Largemouth Bass	Liver	Molybdenum	Inorganic	CR_A	2010	3	/	3	mg/kg	0.17	-	0.26	0.2100	0.0458	p < 0.05
Largemouth Bass	Liver	Thallium	Inorganic	ER_B	2010	3	/	3	mg/kg	0.05	-	0.08	0.0603	0.0157	p < 0.05
Largemouth Bass	Liver	Thallium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.06	-	0.09	0.0683	0.0150	p < 0.05

Notes:

CR_A - Clinch Reach A

ER_A - Emory Reach A

ER_B - Emory Reach B

mg/kg - milligrams per kilogram

RL - reporting limit

ARCADIS

Table 15. Summary of Significant Results (Spatial Analyses) for Ovary Samples

Tennessee Valley Authority **Kingston, Tennessee**

Species	Analyte Name	Parameter Group	Reach	Event	Detects		Samples	Units (wet weight)	Minimum Detect		Maximum Detect	Mean (with full RL)	Standard Deviation (with full RL)	Greater than Reference? (2010)
Bluegill	Aluminum	Inorganic	CR_A	2010	5	/	5	mg/kg	1.7	-	5.4	3.44	1.7686	p < 0.05
Bluegill	Arsenic	Inorganic	CR_A	2010	5	/	5	mg/kg	0.095	-	0.48	0.25	0.1739	p < 0.05
Bluegill	Manganese	Inorganic	CR_A	2010	5	/	5	mg/kg	1.6	-	5.3	3.76	1.5010	0.05 < p < 0.1
Bluegill	Molybdenum	Inorganic	CR_A	2010	5	/	5	mg/kg	0.04	-	0.07	0.05	0.0111	p < 0.05
Bluegill	Thallium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.0061	-	0.07	0.03	0.0243	p < 0.05
Bluegill	Thallium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.017	-	0.03	0.02	0.0047	p < 0.05
Bluegill	Thallium	Inorganic	CR_A	2010	5	/	5	mg/kg	0.025	-	0.046	0.03	0.0098	p < 0.05
Largemouth Bass	Arsenic	Inorganic	ER_A	2010	5	/	5	mg/kg	0.17	-	0.34	0.24	0.0687	p < 0.05
Largemouth Bass	Barium	Inorganic	ER_B	2010	5	/	5	mg/kg	0.028	-	0.072	0.05	0.0175	p < 0.05
Largemouth Bass	Cadmium	Inorganic	ER_A	2010	5	/	5	mg/kg	0.0013	-	0.0069	0.00	0.0023	0.05 < p < 0.1
Largemouth Bass	Copper	Inorganic	CR_A	2010	5	/	5	mg/kg	1.2	-	1.9	1.68	0.2950	p < 0.05
Largemouth Bass	Molybdenum	Inorganic	CR_A	2010	5	/	5	mg/kg	0.014	-	0.036	0.02	0.0081	p < 0.05
Largemouth Bass	Potassium	Inorganic	ER_B	2010	5	/	5	mg/kg	3000	-	3300	3180.00	130.3840	0.05 < p < 0.1
Largemouth Bass	Selenium	Inorganic	ER_B	2010	5	/	5	mg/kg	1.1	-	1.3	1.18	0.0837	0.05 < p < 0.1
Largemouth Bass	Selenium	Inorganic	ER_A	2010	5	/	5	mg/kg	1.2	-	1.7	1.36	0.1949	p < 0.05
Largemouth Bass	Thallium	Inorganic	ER_A	2010	3	/	3	mg/kg	0.06	-	0.09	0.0683	0.0150	p < 0.05

Notes:

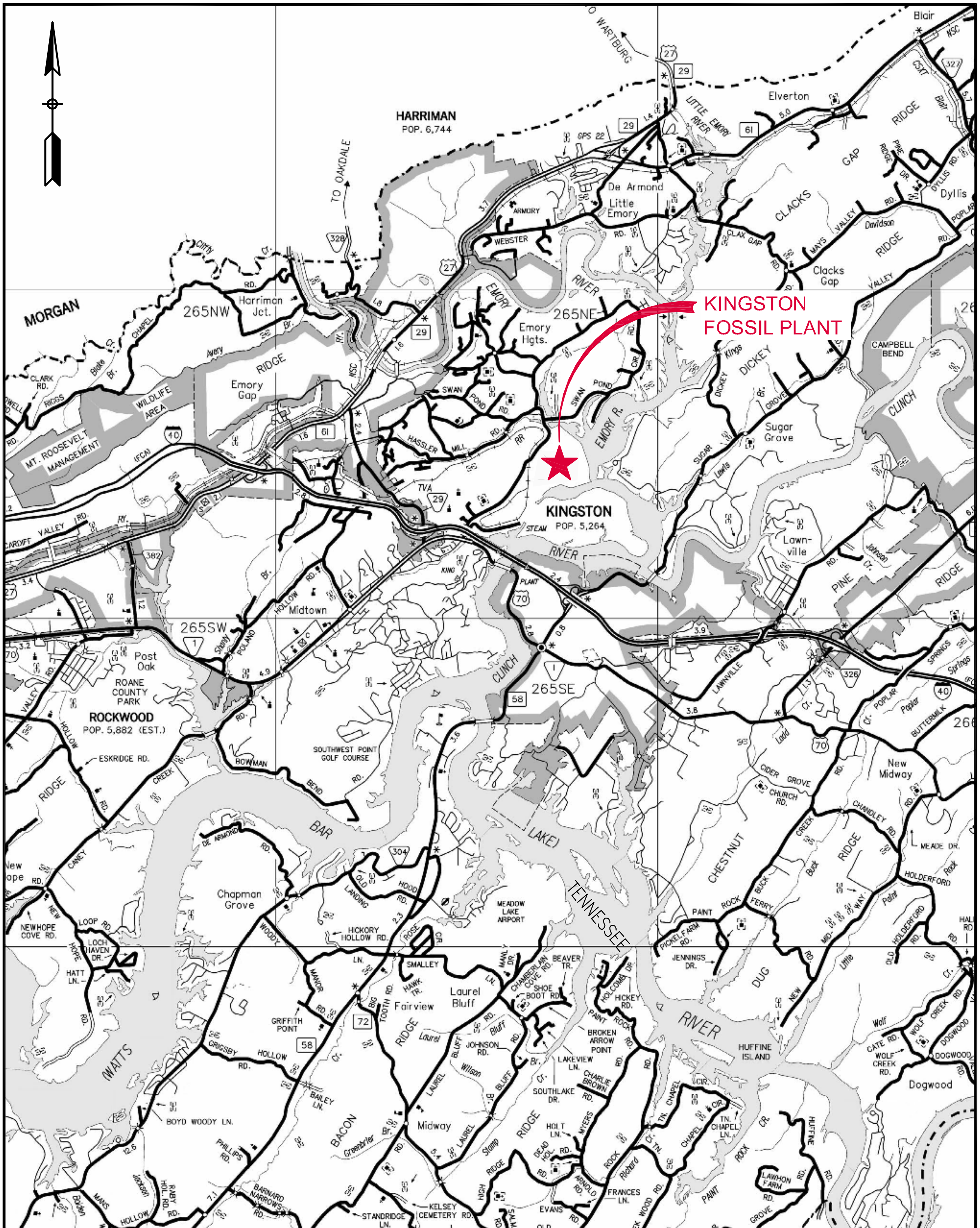
CR_A - Clinch Reach A

ER_A - Emory Reach A

ER_B - Emory Reach B

mg/kg - milligrams per kilogram

RL - reporting limit



SOURCE:
GENERAL HIGHWAY MAP, ROANE COUNTY, TENNESSEE
TENNESSEE DEPARTMENT OF TRANSPORTATION, 2006

0 1 2 4
SCALE IN MILES

FIGURE 1
LOCATION OF THE KINGSTON FOSSIL PLANT
KINGSTON ASH RECOVERY PROJECT

DATE:	PHASE:
29 April 10	River System SAP

T:\0002 ENGINEERING\01 DRAWINGS AND SPECS\Report Graphics\River System SAP\050_Fig 1-1 SAP Location Map.dwg Apr 29,2010 -bperairo

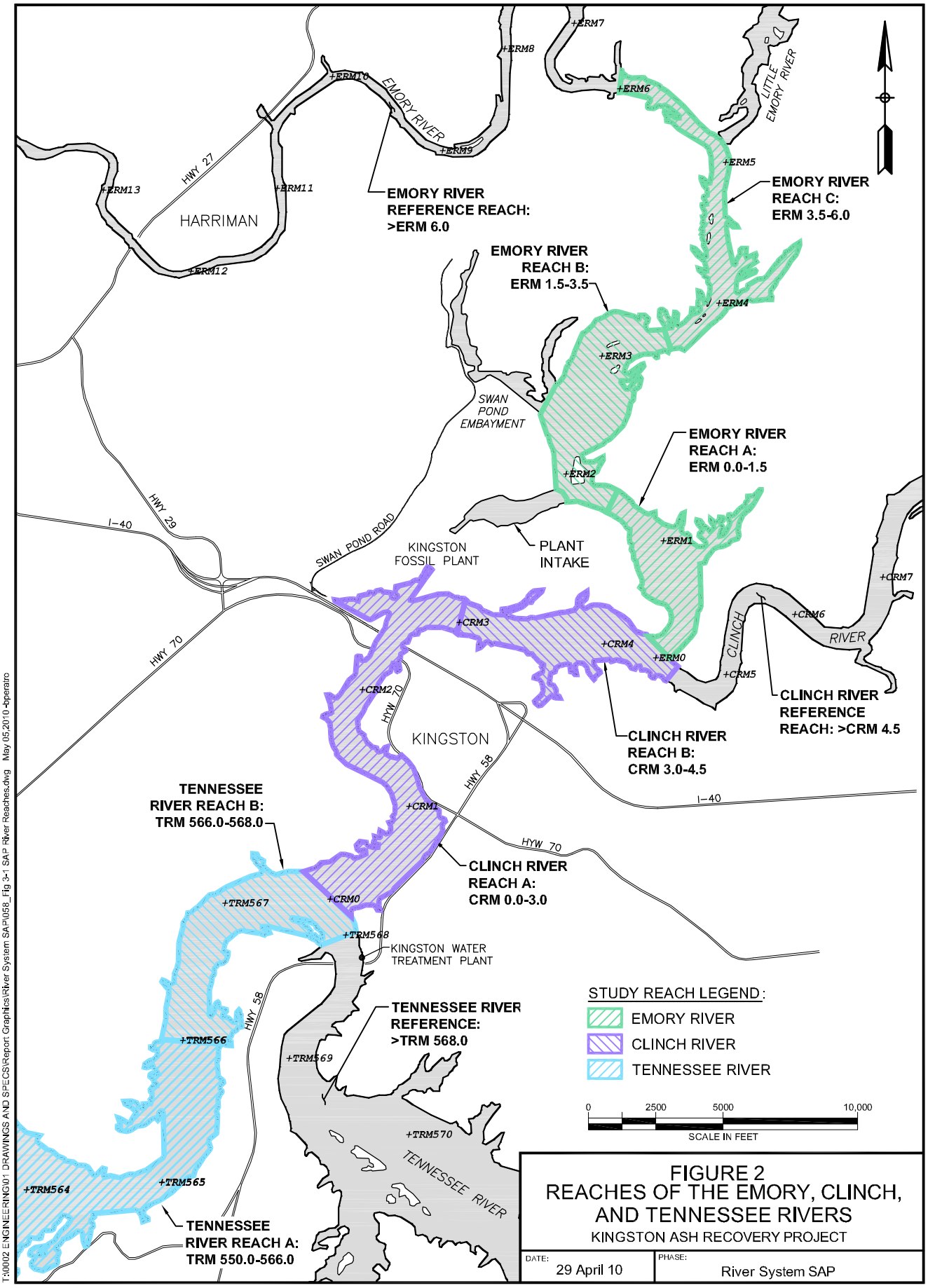


FIGURE 2
REACHES OF THE EMORY, CLINCH, AND TENNESSEE RIVERS
KINGSTON ASH RECOVERY PROJECT

DATE: 29 April 10
PHASE: River System SAP

T:\0002 ENGINEERING\01 DRAWINGS AND SPECS\Report Graphics\River System SAP\058_Fig 3-1 SAP River Reaches.dwg May 05,2010 -bperaro

Appendix A

Individual Sample Results for Fillet Samples (2010 Sampling Events)

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	57.6	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	16.62	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	34.63	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.63	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	4.04	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.871	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.136	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.842	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.744	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.152	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.928	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.036	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	4.1	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	4.1	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	4.2	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	4	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	4	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.6	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.705	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	4.011	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.799	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	4.081	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	4.019	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.858	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.935	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.08	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.503	1	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	6.136	1	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	6.937	1	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	7.268	1	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.8	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.6	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.1	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.8	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.148	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	3.859	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.047	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	3.705	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.119	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	3.706	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.9	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.9	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	4	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	4	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.6	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	4.1	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.148	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.866	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.99	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.064	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.087	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.1	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.1	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.1	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.1	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.6	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.1	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.089	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.042	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.121	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.75	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.761	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.073	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.128	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.959	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.162	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.896	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.943	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.722	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	4.02	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	4.04	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.793	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.869	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.834	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.7	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.8	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.7	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.9	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.7	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.1	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.034	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.058	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.02	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.115	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.014	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.993	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	4.121	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.834	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	4.059	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.782	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.94	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	4.116	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06061	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1254	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0132	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01456	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01403	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01297	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01385	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01363	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01505	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01412	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01466	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01345	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01454	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0138	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01464	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01448	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01401	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01421	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01482	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01463	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01373	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01429	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01463	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01488	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01398	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0147	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01343	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01493	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01344	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01493	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01404	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01444	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01474	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01471	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01487	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01466	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01489	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01359	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01361	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01466	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01496	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01444	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01497	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01415	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01432	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01354	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01454	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01453	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01374	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01394	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01374	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01346	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01456	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0127	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01369	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01448	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0147	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01467	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01454	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01447	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0149	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01458	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01435	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01482	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01374	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01465	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01379	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01431	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01491	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.117	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2388	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02475	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04004	1	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05236	1	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04512	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04095	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0288	1	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.06747	1	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02715	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03439	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.04	1	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.025	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.008024	1	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0276	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02646	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.006954	1	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02856	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0273	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1051	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05887	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0665	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0728	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1109	1	p < 0.05
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09	1	p < 0.05
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.038	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.039	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.033	1	p < 0.05

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.07626	1	p < 0.05
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.06372	1	p < 0.05
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.08307	1	p < 0.05
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05549	1	p < 0.05
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.08955	1	p < 0.05
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0672	1	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.073	1	p < 0.05
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.05	1	p < 0.05
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.077	1	p < 0.05
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	1	p < 0.05
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.076	1	p < 0.05
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.14	1	p < 0.05
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03792	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07128	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1501	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0945	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0573	1	p < 0.05
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.052	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.16	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.055	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.081	1	p < 0.05
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.24	1	p < 0.05
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06372	1	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03384	1	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.051	1	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0774	1	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06048	1	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0724	1	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1376	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04482	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.164	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1113	1	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1246	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03948	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.08282	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1035	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1066	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.05824	1	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.082	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1734	1	p < 0.05
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1183	0	p < 0.05
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.138	1	p < 0.05
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2282	1	p < 0.05
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1575	1	p < 0.05
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1387	0	p < 0.05
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.29	1	p < 0.05
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.086	1	p < 0.05
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	1	p < 0.05
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.14	1	p < 0.05
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.095	1	p < 0.05
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.1	1	p < 0.05
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	1	p < 0.05
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2316	1	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05425	1	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3216	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07452	1	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1548	1	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.127	1	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09338	1	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1128	1	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04356	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1005	1	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03332	1	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0336	1	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.66	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1902	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.398	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0528	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1711	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09163	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1203	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0663	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04224	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2076	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04525	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2172	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.047	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.048	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.28	1	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.15	1	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.48	1	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.065	1	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0236	1	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02392	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04347	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04758	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04692	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01674	1	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0515	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1421	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1197	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2704	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1617	1	p < 0.05
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2183	1	p < 0.05
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.27	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.082	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.18	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.15	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.3	1	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05208	1	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09381	1	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3621	1	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05549	1	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0597	1	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1363	1	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.1	1	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.059	1	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.087	1	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.054	1	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.043	1	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.089	1	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.05688	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04536	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1064	1	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04725	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04775	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.065	1	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.051	1	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.24	1	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.2	1	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.11	1	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04779	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.047	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04692	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.043	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04347	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04706	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.344	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06225	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.451	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1049	1	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2046	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0752	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0505	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1015	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1353	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.08112	1	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.05535	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05916	1	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0546	1	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.184	1	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1369	1	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1593	1	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.22	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.043	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.68	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.061	1	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.16	1	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.092	1	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	1	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04632	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05859	1	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05025	1	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05346	1	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.054	1	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.046	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04669	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.246	1	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05148	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04334	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04508	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0504	1	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.42	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1233	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2587	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0264	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02912	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02805	0	

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Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.05452	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.05655	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.05568	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03114	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02896	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02896	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.03	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.031	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.031	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.03	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02832	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02944	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02835	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02928	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02856	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02912	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02884	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03045	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0304	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02704	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0282	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02925	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.056	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.054	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.061	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.057	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02976	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02832	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02982	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02685	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02985	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02688	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.03	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.06162	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.05832	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0589	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03024	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03056	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.027	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03009	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03008	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0306	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02752	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02835	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03077	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03096	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02988	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03075	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02862	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02976	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0282	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0303	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02985	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0287	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02912	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0287	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02652	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02912	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02576	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02771	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02896	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02898	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.03	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0617	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02895	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03038	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03015	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03078	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0288	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02944	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0609	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0574	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.06138	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05713	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0588	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0609	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	5.96	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.714	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.582	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3795	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4186	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3927	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.376	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.39	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.384	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4325	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3982	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4163	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.43	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.43	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.43	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.42	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.41	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3776	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.4232	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3969	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.4209	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.408	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.4004	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.412	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4263	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.418	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3952	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4136	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.405	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.39	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.42	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4278	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4071	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.426	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3759	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4179	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.384	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.41	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.41	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.41	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.38	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.43	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4266	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4104	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.418	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4158	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4202	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.42	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.43	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.43	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.42	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.38	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.42	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4248	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4136	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4284	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3956	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3969	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4163	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4816	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4233	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4305	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3975	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4092	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3948	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4242	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4179	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3895	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3952	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3895	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3876	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4186	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.368	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3912	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4163	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.414	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.38	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.39	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.42	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.38	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.38	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.43	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4246	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4123	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4221	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4212	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.414	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4048	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4263	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3895	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4158	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.394	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4116	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.42	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.11	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03135	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06567	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00693	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007644	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007293	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01391	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01482	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0144	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.007958	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.007421	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.007783	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0079	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0079	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0079	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0077	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0076	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0069	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.00708	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007728	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007182	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007686	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007548	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.00728	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007416	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007714	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0076	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00728	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00752	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00765	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0073	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0071	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0069	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0077	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0073	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007812	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007434	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007668	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.006981	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007761	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007104	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0075	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0074	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0076	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0075	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0069	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0079	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01588	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007344	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0076	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007749	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007831	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0077	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0078	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0078	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0078	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0069	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0077	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01575	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0156	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01591	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007052	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007182	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007783	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007912	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00747	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007995	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007473	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00744	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007144	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007676	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007761	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007175	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.00728	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.00738	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00714	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007644	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.006624	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007172	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007602	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007659	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.007	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0072	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0076	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0071	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0074	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.007	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0159	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01563	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01562	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01548	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007776	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.00756	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007544	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007917	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.00738	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007722	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007289	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007448	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.00777	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.82	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5225	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.095	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1155	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1274	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1234	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1147	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1229	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.119	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1315	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1249	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1539	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.67	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	1	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.11	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.118	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.127	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.121	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1299	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1265	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1219	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1257	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1299	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1273	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1206	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1241	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1283	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1321	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1221	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1278	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1181	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1313	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1171	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	1	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1304	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1231	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.247	1	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1285	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1299	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.18	1	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.27	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1292	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1278	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1306	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1187	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1191	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1285	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1307	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.127	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1312	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.124	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3162	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1184	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2424	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1274	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.121	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1227	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.121	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1183	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1274	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1104	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1206	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1267	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1283	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1274	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.128	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1266	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1312	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1278	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.127	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1299	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.121	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1287	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1202	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1254	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1302	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05852	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1214	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01271	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0142	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01365	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01278	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01346	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01325	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01453	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01376	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0143	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01298	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01417	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01342	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01427	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01408	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01365	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0138	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01847	1	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01729	1	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02704	1	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01542	1	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0225	1	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01451	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01363	1	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01427	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01432	1	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01493	1	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02112	1	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01446	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01361	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01406	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01436	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01433	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01434	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01429	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01448	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01324	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01323	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0143	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01445	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01394	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01456	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01367	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01376	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01316	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01414	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01433	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01333	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01352	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01353	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01306	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0142	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01233	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01337	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01412	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01428	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01544	1	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01432	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01407	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01442	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01404	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01398	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01441	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01353	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01426	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0134	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01392	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01449	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	2.08	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.6061	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.254	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2805	1	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4186	1	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4675	1	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1767	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2145	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2112	1	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2768	1	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1991	1	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3077	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.26	1	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.27	1	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.26	1	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.2	1	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.24	1	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.059	1	

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Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.05704	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03969	1	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1464	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.05304	1	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03822	1	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3296	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2639	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.247	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3744	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3196	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3825	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.26	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.27	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.34	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.24	1	0.05 < p < 0.1
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.18	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1786	1	p < 0.05
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.531	1	p < 0.05
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2769	1	p < 0.05
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3222	1	p < 0.05
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3582	1	p < 0.05
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3264	1	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.22	1	p < 0.05
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.22	1	p < 0.05
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.22	1	p < 0.05
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.23	1	p < 0.05
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.35	1	p < 0.05
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.41	1	p < 0.05
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3081	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2376	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.399	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2457	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3247	1	p < 0.05
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.5	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.31	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.94	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.5	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.34	1	p < 0.05
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.44	1	p < 0.05
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.354	1	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4136	1	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2856	1	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.344	1	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2457	1	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2896	1	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1617	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1693	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1579	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1399	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1488	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0846	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2626	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.199	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.246	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2288	1	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.205	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2448	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2002	1	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2208	1	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1597	1	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1774	1	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.147	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.25	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.22	1	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.31	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.29	1	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.24	1	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.25	1	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2509	1	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2821	1	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4221	1	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2268	1	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.216	1	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3128	1	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.203	1	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3485	1	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2772	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2758	1	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2548	1	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.252	1	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.52	1	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.115	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2388	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02475	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0273	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02618	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02444	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0273	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02688	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02941	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02715	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02896	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.025	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02596	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0276	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02646	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02745	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02856	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0273	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.07828	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.07308	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0969	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3536	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2444	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1283	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.025	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02976	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.08673	1	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02982	1	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02506	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02786	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02496	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.025	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02844	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02592	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0285	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02835	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02865	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.028	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.084	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.025	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02832	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0282	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02856	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0258	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02646	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02896	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02924	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02739	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0287	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02703	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0279	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02632	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02828	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04378	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02665	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02704	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02665	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02652	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0273	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02392	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02608	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02715	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02898	1	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.026	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.026	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.026	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.026	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02895	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0651	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02814	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02916	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0288	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0276	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02842	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02665	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02772	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02561	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02744	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0294	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	2.46	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.7106	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.473	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.363	1	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.6916	1	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.9911	1	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	2.369	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.7215	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.288	1	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	2.612	1	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2896	1	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.068	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.21	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.29	1	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.7	1	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.85	1	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	7.1	1	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.48	1	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.7316	1	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.184	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04536	1	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.2745	1	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.07956	1	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09646	1	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5768	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.233	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.862	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.163	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.012	1	p < 0.05
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.98	1	p < 0.05
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	2.4	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.53	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.4	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.8	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.2	1	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2604	1	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3717	1	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	2.173	1	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.358	1	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4179	1	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.8064	1	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.85	1	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.79	1	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.6	1	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.3	1	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.64	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3555	1	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2376	1	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.102	1	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2457	1	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3247	1	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.44	1	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.24	1	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.45	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.62	1	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	1.1	1	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.42	1	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3009	1	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.376	1	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2244	1	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1892	1	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.7749	1	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3801	1	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	5.246	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3486	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	8.774	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.113	1	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.469	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.5076	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.303	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.5373	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.5945	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.9568	1	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4305	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.306	1	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4004	1	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.656	1	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.712	1	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.231	1	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1718	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2.9	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.16	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.4	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.24	1	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.95	1	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.75	1	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.95	1	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3281	1	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3906	1	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3216	1	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.243	1	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.288	1	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.184	1	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2436	1	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.579	1	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.198	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2167	1	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1686	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.42	1	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.166	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.08987	1	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0995	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05775	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04186	1	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.07854	1	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.05076	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0429	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03456	1	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.05017	1	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04887	1	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.06516	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.053	1	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.048	1	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.097	1	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.06	1	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.11	1	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.008732	1	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.006256	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.006804	1	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.004026	1	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.00612	1	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.009282	1	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03708	1	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03451	1	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0513	1	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02704	1	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02632	1	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0315	1	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.066	1	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	1	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.029	1	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.054	1	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.031	1	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05208	1	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05487	1	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05538	1	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.07697	1	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04776	1	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05952	1	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.06	1	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.052	1	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.066	1	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.041	1	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.03	1	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.061	1	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1375	1	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04536	1	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0456	1	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0567	1	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04966	1	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.072	1	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.048	1	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.042	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.056	1	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.031	1	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.056	1	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06195	1	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1053	1	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08976	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0774	1	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0567	1	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08507	1	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.07052	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08217	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05125	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1383	1	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05766	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04888	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04848	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04776	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04305	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.06032	1	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0533	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04896	1	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05278	1	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.046	1	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05542	1	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05068	1	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04761	1	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.048	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.064	1	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.048	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.057	1	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.065	1	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.044	1	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.052	1	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.06176	1	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03689	1	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04824	1	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03726	1	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0684	1	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07728	1	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04669	1	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.041	1	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.06336	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05516	1	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.08036	1	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.063	1	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1463	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2985	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03135	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0364	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03366	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03196	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03315	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03264	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03633	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03439	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0362	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.036	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.036	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.036	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.032	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03304	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03496	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03402	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0366	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03468	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03458	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03502	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03654	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0361	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03328	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03384	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.036	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.033	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0372	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03363	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03621	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03222	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03582	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03264	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.032	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03555	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03456	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0342	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03591	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03629	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.032	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0354	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03572	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03672	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03268	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03213	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0362	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03612	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03486	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0369	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03498	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03534	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03196	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03636	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03582	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0328	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03328	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0328	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03264	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0364	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03128	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0326	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03439	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03519	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.047	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.033	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.045	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.033	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.034	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.032	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03474	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03472	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03618	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03564	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.036	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03496	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03654	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0328	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03564	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03349	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03528	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0357	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.4	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3971	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.8358	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0891	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09828	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09537	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08836	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0936	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.09216	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1003	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.09593	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.09955	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.1	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.1	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.098	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.097	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.088	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.08968	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09752	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09261	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09882	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09792	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09464	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09682	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09947	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0988	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09152	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09588	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.099	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.093	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.091	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.089	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.099	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.094	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1004	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09381	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09798	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09129	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2189	1	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09024	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.096	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.094	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.098	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.097	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.089	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.1	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1019	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09504	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.114	1	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09828	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09932	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.099	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.16	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.089	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.099	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09912	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.376	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09996	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09116	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09072	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09955	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1015	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09711	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1005	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0954	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1414	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09024	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09898	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0995	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09225	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0936	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0943	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.08976	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09828	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.08464	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09291	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09774	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09936	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.09	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.092	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.098	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.091	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.095	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.09	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.1	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09843	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09982	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09849	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1004	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0972	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09752	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1015	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0943	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.099	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09259	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09604	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1008	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.98	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.003	1	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5771	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.396	1	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4004	1	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.8041	1	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.47	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5655	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5952	1	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4671	1	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4525	1	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4344	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.46	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.39	1	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.44	1	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	1	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.43	1	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.49	1	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1322	1	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09384	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09828	1	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.06954	1	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.104	1	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1238	1	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4738	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5684	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.684	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6448	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4512	1	p < 0.05
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6525	1	p < 0.05
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.54	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.58	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.43	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.64	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.56	1	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.8928	1	p < 0.05
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.7611	1	p < 0.05
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	1.129	1	p < 0.05
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6265	1	p < 0.05
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.796	1	p < 0.05
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.8832	1	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.78	1	p < 0.05
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.56	1	p < 0.05
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.61	1	p < 0.05
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.77	1	p < 0.05
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.82	1	p < 0.05

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.59	1	p < 0.05
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6162	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.756	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.551	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.8883	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.8595	1	p < 0.05
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.84	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	1.1	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.86	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.93	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.72	1	p < 0.05
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.83	1	p < 0.05
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4956	1	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5076	1	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.612	1	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.516	1	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5103	1	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.6335	1	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5332	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5229	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.533	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5724	1	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.558	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.6956	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.5858	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.5771	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.492	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.6656	1	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.7585	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.8976	1	p < 0.05
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7098	1	p < 0.05
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.644	1	p < 0.05
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.815	1	p < 0.05
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7059	1	p < 0.05
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.8901	1	p < 0.05
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.1	1	p < 0.05
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.3	1	p < 0.05
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.51	1	p < 0.05
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.1	1	p < 0.05
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.3	1	p < 0.05
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.2	1	p < 0.05
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.91	1	p < 0.05
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.8492	1	p < 0.05
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.063	1	p < 0.05
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7638	1	p < 0.05
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7452	1	p < 0.05
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.792	1	p < 0.05
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.644	1	p < 0.05
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.299	1	p < 0.05
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.087	1	p < 0.05
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.525	1	p < 0.05
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.241	1	p < 0.05
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.509	1	p < 0.05
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.218	1	p < 0.05
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.042	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01191	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02587	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00264	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002912	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002805	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002632	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.00273	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002688	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002941	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002896	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002896	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.003	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.003	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.003	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0026	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002596	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002944	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002835	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002928	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002856	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.00273	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002884	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.003045	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00285	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002704	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00282	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002925	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0027	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002976	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002832	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002982	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002685	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002985	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002688	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0026	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.003	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.003081	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002808	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.00285	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.009828	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.009932	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	1	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.003	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.025	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.017	1	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.011	1	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.019	1	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.003009	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.003008	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00306	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002752	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002646	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002896	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002924	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002988	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.003075	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002862	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00279	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002632	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002828	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002985	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002665	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002704	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002665	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002652	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.003458	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002576	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002771	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002896	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002898	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0027	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0027	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0027	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0028	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0027	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002895	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002821	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002814	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002916	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.00288	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002944	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.003045	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002665	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.004554	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002758	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.00294	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.00294	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.64	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1818	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3781	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.33	1	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4732	1	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.7106	1	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.241	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.507	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1766	1	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.692	1	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1738	1	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.104	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.097	1	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	2.7	1	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.67	1	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	2.8	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.72	1	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1416	1	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09568	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0138	1	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01793	1	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1387	1	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1674	1	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1401	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6902	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.418	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.31	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.47	1	p < 0.05
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.148	1	p < 0.05
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.3	1	p < 0.05
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.74	1	p < 0.05
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.7	1	p < 0.05
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.7	1	p < 0.05
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.1	1	p < 0.05
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3906	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.7788	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	5.602	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6981	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4975	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	2.304	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.7	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.38	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.87	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.32	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.15	1	0.05 < p < 0.1
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.88	1	0.05 < p < 0.1
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.5451	1	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.08208	1	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.722	1	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2835	1	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1108	1	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.78	1	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.24	1	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	1	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	1.1	1	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	2	1	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.81	1	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.07965	1	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4136	1	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.07956	1	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1686	1	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4347	1	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.362	1	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	5.366	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1868	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	5.822	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.161	1	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.065	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.6204	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2222	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.7562	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.9635	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.6656	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2665	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5304	1	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.8008	1	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.889	1	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.95	1	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.154	1	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.178	1	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.7	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	1	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	14.3	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.73	1	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2.3	1	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.1	1	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.7	1	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1776	1	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3255	1	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1869	1	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3888	1	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.414	1	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.184	1	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1543	1	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	2.727	1	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2574	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1872	1	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1882	1	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.336	1	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.198	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05643	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1194	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01254	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01383	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01328	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01241	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01326	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01286	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01436	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01358	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01394	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.012	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01274	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0138	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01304	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01409	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01387	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01329	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0136	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01401	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01387	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0131	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01354	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01395	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02418	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01328	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01385	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01271	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0199	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0192	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04266	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01339	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01463	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01399	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01413	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01416	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01391	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01428	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0129	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01285	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01412	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01428	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0137	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01435	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01336	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01358	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01278	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01394	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01393	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01312	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01331	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01312	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01285	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01401	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01196	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01304	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01376	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01718	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.02	0	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02509	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01975	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03015	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01782	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0252	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02944	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01421	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01312	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01406	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01352	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01407	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.66	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1902	0	
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.398	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04125	0	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0455	0	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04488	0	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08272	0	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08775	0	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08448	0	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04671	0	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04525	0	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04706	0	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.047	0	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.047	0	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.047	0	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.045	0	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.041	0	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04248	0	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.046	0	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04347	0	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04575	0	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04488	0	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04368	0	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04532	0	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04669	0	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0456	0	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04368	0	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04512	0	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.045	0	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.044	0	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	0	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.042	0	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.046	0	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.044	0	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0465	0	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04425	0	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04686	0	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04296	0	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04776	0	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04224	0	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.045	0	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.045	0	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.047	0	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0948	0	
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0432	0	
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0456	0	
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04725	0	
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04584	0	
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.046	0	
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	0	
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.059	1	
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	0	
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.042	0	
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.046	0	
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04602	0	
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.047	0	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04692	0	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.043	0	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04347	0	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04706	0	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04644	0	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04482	0	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04715	0	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04452	0	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04464	0	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04324	0	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04646	0	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04577	0	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04305	0	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04368	0	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04305	0	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04284	0	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0455	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04048	0	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04238	0	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04525	0	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04554	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.066	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.043	0	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.074	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.042	0	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.044	0	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.042	0	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0936	0	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.009071	0	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09114	0	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09045	0	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04698	0	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.045	0	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.046	0	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04669	0	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04305	0	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04554	0	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04334	0	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04508	0	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0462	0	
KIF-ERM8.0_BG.F.G.01-FH-051110	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	31.4	0	
KIF-ERM8.0_BG.F.G.02-FH-051110	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	10.3	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.F.G.03-FH-051110	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	18.81	0	
KIF-ERM8.0_BG.F.G.04-FH-051110	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	13.89	1	
KIF-ERM8.0_BG.F.G.05-FH-051110	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	12.41	1	
KIF-ERM8.0_BG.F.G.06-FH-051110	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	10.4	1	
KIF-LERM2.0_BG.F.G.01-FH-051310	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	11.28	1	
KIF-LERM2.0_BG.F.G.02-FH-051310	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	18.43	1	
KIF-LERM2.0_BG.F.G.03-FH-051310	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	10.33	1	
KIF-LERM2.0_BG.F.G.04-FH-051310	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	11.37	1	
KIF-LERM2.0_BG.F.G.05-FH-051310	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	11.17	1	
KIF-LERM2.0_BG.F.G.06-FH-051310	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	16.16	1	
KIF-ERM8.0_BG.F.G.01-FH-101110-A	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	17.9	1	
KIF-ERM8.0_BG.F.G.02-FH-101110-A	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	15.2	1	
KIF-ERM8.0_BG.F.G.03-FH-101110-A	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	15.7	1	
KIF-ERM8.0_BG.F.G.04-FH-101110-A	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	19.2	1	
KIF-ERM8.0_BG.F.G.05-FH-101110-A	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	12.1	1	
KIF-ERM8.0_BG.F.G.06-FH-101110-A	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	11.9	1	
KIF-LERM2.0_BG.F.G.01-FH-100410-A	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	12.15	1	
KIF-LERM2.0_BG.F.G.02-FH-100410-A	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	10.3	1	
KIF-LERM2.0_BG.F.G.03-FH-100410-A	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	1.436	1	
KIF-LERM2.0_BG.F.G.04-FH-100410-A	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	1.665	1	
KIF-LERM2.0_BG.F.G.05-FH-100410-A	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	1.938	1	
KIF-LERM2.0_BG.F.G.06-FH-100410-A	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	10.3	1	
KIF-ERM4.5_BG.F.G.01-FH-042110	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	11.74	1	
KIF-ERM4.5_BG.F.G.02-FH-042110	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	10.09	1	
KIF-ERM4.5_BG.F.G.03-FH-042110	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	17.52	1	
KIF-ERM4.5_BG.F.G.04-FH-042110	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	13.5	1	
KIF-ERM4.5_BG.F.G.05-FH-042110	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	12.84	1	
KIF-ERM4.5_BG.F.G.06-FH-042110	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	18.36	1	
KIF-ERM4.5_BG.F.G.01-FH-010411-A	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	10.8	1	
KIF-ERM4.5_BG.F.G.02-FH-010411-A	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	9.9	1	
KIF-ERM4.5_BG.F.G.03-FH-010411-A	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	14.6	1	
KIF-ERM4.5_BG.F.G.04-FH-010411-A	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	15.7	1	
KIF-ERM4.5_BG.F.G.05-FH-010411-A	Bluegill	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	9	1	
KIF-ERM3.0_BG.F.G.01-FH-050510	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	10.38	1	
KIF-ERM3.0_BG.F.G.02-FH-050510	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	11.26	1	
KIF-ERM3.0_BG.F.G.03-FH-050510	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	14.97	1	
KIF-ERM3.0_BG.F.G.04-FH-050510	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	9.326	1	
KIF-ERM3.0_BG.F.G.05-FH-050510	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	12.95	1	
KIF-ERM3.0_BG.F.G.06-FH-050510	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	10.73	1	
KIF-ERM3.0_BG.F.G.01-FH-100710-A	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	12.4	1	
KIF-ERM3.0_BG.F.G.02-FH-100710-A	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	13.7	1	
KIF-ERM3.0_BG.F.G.03-FH-100710-A	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	11.4	1	
KIF-ERM3.0_BG.F.G.04-FH-100710-A	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	14	1	
KIF-ERM3.0_BG.F.G.05-FH-100710-A	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	15.8	1	
KIF-ERM3.0_BG.F.G.06-FH-100710-A	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	14	1	
KIF-ERM0.9_BG.F.G.01-FH-051010	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	21.66	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-051010	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	11.28	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-051010	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	16.07	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-051010	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	17.73	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-051010	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	13.03	1	p < 0.05
KIF-ERM0.9_BG.F.G.01-FH-092910-A	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	14.2	1	p < 0.05
KIF-ERM0.9_BG.F.G.02-FH-092910-A	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	14	1	p < 0.05
KIF-ERM0.9_BG.F.G.03-FH-092910-A	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	14.6	1	p < 0.05
KIF-ERM0.9_BG.F.G.04-FH-092910-A	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	12.7	1	p < 0.05
KIF-ERM0.9_BG.F.G.05-FH-092910-A	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	14.1	1	p < 0.05
KIF-ERM0.9_BG.F.G.06-FH-092910-A	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	15.3	1	p < 0.05
KIF-CRM8.0_BG.F.G.01-FH-050610	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	16.57	1	

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Appendix A-1. TVA Bluegill Fillet Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.F.G.02-FH-050610	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	16.92	1	
KIF-CRM8.0_BG.F.G.03-FH-050610	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	18.16	1	
KIF-CRM8.0_BG.F.G.04-FH-050610	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	20.64	1	
KIF-CRM8.0_BG.F.G.05-FH-050610	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	12.63	1	
KIF-CRM8.0_BG.F.G.06-FH-050610	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	16.76	1	
KIF-CRM8.0-BG.F.G.01-FH-041310	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	16.91	1	
KIF-CRM8.0-BG.F.G.02-FH-041310	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	13.37	1	
KIF-CRM8.0-BG.F.G.03-FH-041310	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	13.51	1	
KIF-CRM8.0-BG.F.G.04-FH-041310	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	14.82	1	
KIF-CRM8.0-BG.F.G.05-FH-041310	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	8.947	1	
KIF-CRM8.0_BG.F.G.01-FH-092810-A	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	11.36	1	
KIF-CRM8.0_BG.F.G.02-FH-092810-A	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	15.15	1	
KIF-CRM8.0_BG.F.G.03-FH-092810-A	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	16.52	1	
KIF-CRM8.0_BG.F.G.04-FH-092810-A	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	18.61	1	
KIF-CRM8.0_BG.F.G.05-FH-092810-A	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	11.07	1	
KIF-CRM8.0_BG.F.G.06-FH-092810-A	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	12.36	1	
KIF-CRM3.5-BG.F.G.01-FH-041210	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	13.44	1	
KIF-CRM3.5-BG.F.G.02-FH-041210	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	10.99	0	
KIF-CRM3.5-BG.F.G.03-FH-041210	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	13.21	1	
KIF-CRM3.5-BG.F.G.04-FH-041210	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	14.46	1	
KIF-CRM3.5-BG.F.G.05-FH-041210	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	13.27	1	
KIF-CRM3.5-BG.F.G.06-FH-041210	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	10.99	0	
KIF-CRM3.5_BG.F.G.01-FH-121510-A	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	13.8	1	
KIF-CRM3.5_BG.F.G.02-FH-121510-A	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	15.5	1	
KIF-CRM3.5_BG.F.G.03-FH-121510-A	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	17.4	1	
KIF-CRM3.5_BG.F.G.04-FH-121510-A	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	13	1	
KIF-CRM3.5_BG.F.G.05-FH-121510-A	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	13.1	1	
KIF-CRM3.5_BG.F.G.06-FH-121510-A	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	11.5	1	
KIF-CRM3.5_BG.F.G.07-FH-122110-A	Bluegill	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	12.5	1	
KIF-CRM1.5_BG.F.G.01-FH-051210	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	15.03	1	
KIF-CRM1.5_BG.F.G.02-FH-051210	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	14.34	1	
KIF-CRM1.5_BG.F.G.03-FH-051210	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	16.24	1	
KIF-CRM1.5_BG.F.G.04-FH-051210	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	13.43	1	
KIF-CRM1.5_BG.F.G.05-FH-051210	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	15.86	1	
KIF-CRM1.5_BG.F.G.06-FH-051210	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	12.71	1	
KIF-CRM1.5_BG.F.G.01-FH-093010-A	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	17.13	1	
KIF-CRM1.5_BG.F.G.02-FH-093010-A	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	23.99	1	
KIF-CRM1.5_BG.F.G.03-FH-093010-A	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	16.91	1	
KIF-CRM1.5_BG.F.G.04-FH-093010-A	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	22.06	1	
KIF-CRM1.5_BG.F.G.05-FH-093010-A	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	16.13	1	
KIF-CRM1.5_BG.F.G.06-FH-093010-A	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	16.42	1	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CRM - Clinch River Mile
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ERM - Emory River Mile
ER_R - Emory River Reference Reach
LERM - Little Emory River Mile
mg/kg - milligrams per kilogram
ND - non-detect
TVA - Tennessee Valley Authority

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	9.2	1	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	4.1	1	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	alpha-Chlordane	Pesticides	ER_R	ERM8.0	Fall 2010	ug/kg	2.6	1	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	3.1	1	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	2.5	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_B	ERM2.0	Spring 2010	ug/kg	4.9	1	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_B	ERM2.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	alpha-Chlordane	Pesticides	ER_B	ERM3.0	Fall 2010	ug/kg	2.5	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	5.4	1	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	alpha-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	9	1	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	alpha-Chlordane	Pesticides	ER_A	ERM0.9	Fall 2010	ug/kg	2.6	1	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	alpha-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	14	1	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	alpha-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	10.4	1	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	alpha-Chlordane	Pesticides	CR_R	CRM8.0	Fall 2010	ug/kg	3	1	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	alpha-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.6	1	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	alpha-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	alpha-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	7.3	1	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	alpha-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	8.9	1	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	alpha-Chlordane	Pesticides	CR_A	CRM1.5	Fall 2010	ug/kg	2.5	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.623	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.708	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.761	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	4.139	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.875	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	4.045	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.654	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.957	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.6	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.9	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.7	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.7	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.9	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	4	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.938	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.752	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	4.154	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.898	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.66	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.782	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.026	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.975	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.068	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.553	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.71	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.9	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.1	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.9	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	3.894	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	3.976	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	4.02	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	3.744	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	3.989	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	3.943	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	3.867	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.7	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.9	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	4	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.6	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.8	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.8	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.008	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.92	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.735	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.956	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.555	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.9	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.6	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.6	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.2	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.956	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.781	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.962	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.927	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.737	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.004	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.914	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.879	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.099	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.996	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	4.12	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.865	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.952	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.64	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.689	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.57	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.663	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	4.03	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.612	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.507	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.964	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.1	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.8	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.6	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.1	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.854	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.121	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.902	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.786	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.055	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.899	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	4.014	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.627	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.65	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	4.138	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.656	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	4.045	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01307	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01332	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01353	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01493	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01394	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01468	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01314	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01428	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01414	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01354	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01496	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01406	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0132	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01363	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01455	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01428	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01471	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01273	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01459	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01336	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01408	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01428	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01447	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01358	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01439	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01432	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.014	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01445	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01411	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01348	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01437	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0128	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.01437	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.01368	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01443	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01407	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01363	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01448	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01421	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0139	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0149	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0144	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0148	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01401	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01421	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0131	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01322	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01281	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01332	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01452	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01302	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01269	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0143	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01402	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01487	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01417	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01366	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01463	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01409	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01448	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01321	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01308	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01505	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01313	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01455	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02574	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0252	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02587	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02985	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02665	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02864	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0252	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02702	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.025	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02685	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02562	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02992	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02769	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.026	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02688	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05481	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.07854	1	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02865	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0247	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02873	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02544	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0264	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02702	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02814	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.09894	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02834	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0279	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03553	1	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.032	1	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04161	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02688	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.05304	1	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.05525	1	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.08058	1	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.027	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.025	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.025	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.07293	1	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0266	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03893	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03859	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03995	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05264	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02678	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02702	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02898	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0504	1	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0339	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02886	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0819	1	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0261	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0399	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0259	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02865	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0357	1	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02505	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02715	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.025	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0573	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04599	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02814	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05668	1	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02688	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02926	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.08492	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05597	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05022	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05064	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02508	1	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04646	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02835	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0693	1	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.135	1	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.08159	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1274	1	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0943	1	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04654	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0414	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1255	1	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.044	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.046	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04475	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04392	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04752	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04473	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.042	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04416	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2079	1	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.06902	1	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04966	1	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.228	1	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04641	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1251	1	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.063	1	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	1	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.052	1	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	1	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.6	1	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.044	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0704	1	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.06948	1	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2211	1	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0485	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04578	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.09114	1	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04807	1	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.045	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04599	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.06272	1	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04199	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1724	1	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04029	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.045	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.041	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.041	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.048	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.04641	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0437	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04809	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0454	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3525	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09212	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04532	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2509	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1718	1	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.045	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.048	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0452	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0444	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04186	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04176	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0483	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.111	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05348	1	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.042	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04175	1	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04525	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.045	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.048	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.044	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.041	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.047	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05694	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04824	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04578	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.06272	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04598	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07334	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04632	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04092	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0422	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04807	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.008484	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04536	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02574	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02786	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02985	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0287	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03043	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02895	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.029	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02864	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02745	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02992	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02982	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.026	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0288	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.06048	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02856	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03056	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0266	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02873	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02756	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.058	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.055	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.055	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.056	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.061	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.058	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0286	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02895	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03015	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02716	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02834	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02976	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02926	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.03	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03066	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02912	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02652	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02873	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02607	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.027	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.026	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.031	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.02873	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0285	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02977	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02951	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0282	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03008	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02884	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02895	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03105	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0288	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02938	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02886	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0273	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02784	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0273	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02775	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03056	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0273	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02505	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02896	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.031	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0612	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02847	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03015	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02834	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02688	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02926	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02895	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05983	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05394	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05486	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03135	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02626	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03024	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3762	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.378	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.398	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4378	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.41	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4117	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.378	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4053	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.39	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.41	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.4117	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3843	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.4224	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.4047	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.38	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.384	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4158	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4046	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4202	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.361	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4199	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3816	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.39	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.42	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.396	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4053	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4221	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.388	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4142	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4092	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3971	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.38	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.42	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.38	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.39	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4161	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4032	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3757	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4199	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3792	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.4	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.37	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.37	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.43	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.4199	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.399	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4122	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4086	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.376	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4136	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.412	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4053	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4347	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.414	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.42	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4068	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3996	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3822	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3828	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.378	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.37	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4202	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.378	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3674	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4163	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.41	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.43	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.37	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.42	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3942	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4221	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4142	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3808	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.418	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4053	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4246	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.372	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3798	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4389	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3838	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4158	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00693	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00702	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007164	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00796	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00738	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007697	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00702	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007527	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0069	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0073	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.007	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0071	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0074	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0076	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007518	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007137	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.00792	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007455	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007296	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0155	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007616	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007831	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00684	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007735	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.006996	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0074	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.007	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.007	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0071	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0077	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0073	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.00748	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.007527	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.007638	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.007178	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.00763	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.00744	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.007315	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.007	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0074	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0076	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0069	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0072	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0073	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007665	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007392	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007072	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007514	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.006873	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0074	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0068	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0068	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.018	1	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.007514	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.00722	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007557	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007491	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00705	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007708	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007416	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007334	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007866	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.00756	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0196	1	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007458	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007548	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.006916	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.00696	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00672	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00703	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00764	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00693	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00668	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007602	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0075	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0079	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0073	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0069	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0158	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007446	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007839	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007412	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007168	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007733	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007334	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.00772	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.006882	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.006963	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007942	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.006868	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007749	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1148	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.117	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1194	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1313	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.123	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1289	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1152	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1255	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1253	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.119	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.132	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1235	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.116	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.121	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1285	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1261	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1299	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1121	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.126	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1166	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1232	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1255	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1266	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1183	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1264	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1246	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1233	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.127	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1232	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1193	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.126	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1138	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.11	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.11	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.126	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1197	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.126	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1249	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1175	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1278	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1236	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1235	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1304	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.126	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.13	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.122	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1265	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1165	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1166	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1134	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1166	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.128	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1134	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1102	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1249	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.11	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1226	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1307	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1243	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1994	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1275	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1235	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1274	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1153	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1161	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1317	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1151	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1285	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01267	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01296	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01313	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01453	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01374	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01432	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01278	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0139	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01378	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01318	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01461	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01363	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0128	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01325	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01418	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02856	1	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01433	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01254	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01414	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01314	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.035	1	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.019	1	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01804	1	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0139	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01407	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02522	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01395	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01395	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01359	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01621	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01389	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01304	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01392	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01256	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.01392	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0133	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03206	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01907	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01316	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0188	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02266	1	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0137	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01449	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01404	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0144	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01831	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01399	1	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01274	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01288	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01365	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01388	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01413	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0126	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01236	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01394	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	1	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	1	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01358	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01447	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01373	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01322	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01421	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0137	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01409	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01283	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01287	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01463	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01293	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01418	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3366	1	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.396	1	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4179	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2189	1	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2255	1	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1969	1	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.288	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2123	1	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.34	1	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.47	1	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.23	1	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.34	1	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.49	1	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.21	1	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02864	1	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02562	1	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.6688	1	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.2556	1	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.36	1	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	1.037	1	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2079	1	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2618	1	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2292	1	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.323	1	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2652	1	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.802	1	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.61	1	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.29	1	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.77	1	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.23	1	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.3	1	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.36	1	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.352	1	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2895	1	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2412	1	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.485	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2616	1	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.279	1	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2926	1	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.31	1	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.25	1	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.29	1	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.32	1	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.32	1	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	1.1	1	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.854	1	p < 0.05
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	10.3	1	p < 0.05
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3536	1	p < 0.05
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2652	1	p < 0.05
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3081	1	p < 0.05
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.28	1	p < 0.05
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.28	1	p < 0.05
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.62	1	p < 0.05
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.34	1	p < 0.05
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.3757	1	p < 0.05
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.646	1	p < 0.05
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4809	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3178	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.737	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.282	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3502	1	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.386	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3312	1	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.306	1	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.38	1	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4746	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.333	1	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3822	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.261	1	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.898	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.259	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2101	1	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.378	1	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2171	1	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2534	1	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.48	1	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.1	1	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.34	1	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.37	1	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1	1	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.132	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3819	1	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2834	1	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3584	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2508	1	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	7.102	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.5597	1	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2604	1	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.211	1	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1547	1	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09292	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04725	1	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	6.3	1	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	gamma-Chlordane	Pesticides	ER_R	ERM8.0	Fall 2010	ug/kg	2.5	0	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	2.5	0	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	2.5	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_B	ERM2.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_B	ERM2.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	gamma-Chlordane	Pesticides	ER_B	ERM3.0	Fall 2010	ug/kg	2.5	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	2.5	0	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	gamma-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	5.7	1	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	gamma-Chlordane	Pesticides	ER_A	ERM0.9	Fall 2010	ug/kg	2.5	0	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	8.4	1	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	4.3	1	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Fall 2010	ug/kg	2.5	0	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	gamma-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	gamma-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	gamma-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	2.7	1	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	gamma-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	3.1	1	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	gamma-Chlordane	Pesticides	CR_A	CRM1.5	Fall 2010	ug/kg	2.5	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02574	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0252	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02587	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02786	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02665	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02864	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0252	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02702	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.025	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02685	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02562	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02816	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02769	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.026	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04224	1	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02835	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02856	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02865	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0304	1	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02873	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.06996	1	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.025	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0264	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02702	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02814	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02522	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02834	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0279	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02717	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.025	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.025	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.031	1	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1862	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.448	1	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02652	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02652	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0237	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.027	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.025	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.025	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.02652	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0266	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02748	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02724	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1786	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0282	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02678	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02702	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02898	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.027	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02712	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02664	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02548	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0261	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1239	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02775	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02865	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0252	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02505	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02715	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.025	0	

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Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1139	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02814	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02616	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02688	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02717	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3088	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02895	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02604	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02532	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02926	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02626	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02835	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4356	1	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.954	1	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4179	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4975	1	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3485	1	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2327	1	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.27	1	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.386	1	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.15	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.17	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1665	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1592	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.2288	1	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1661	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.178	1	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1728	1	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.229	1	p < 0.05
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.8568	1	p < 0.05
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3247	1	p < 0.05
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.71	1	p < 0.05
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.221	1	p < 0.05
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3392	1	p < 0.05
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.36	1	p < 0.05
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.25	1	p < 0.05
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.35	1	p < 0.05
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.27	1	p < 0.05
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.5	1	p < 0.05
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.19	1	p < 0.05
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.528	1	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.5211	1	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.9648	1	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.5626	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.436	1	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.651	1	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3344	1	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.17	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.17	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.2	1	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.22	1	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3942	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4704	1	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2652	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.039	1	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3555	1	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.17	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.2	1	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.15	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.18	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.168	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1615	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2748	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.193	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.961	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.9212	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2678	1	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.39	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.118	1	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.171	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.176	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.165	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1687	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.273	1	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1566	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.42	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.147	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7258	1	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1659	1	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2672	1	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3077	1	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.25	1	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.84	1	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.16	1	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.21	1	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5694	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.201	1	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.6104	1	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3808	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2717	1	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5404	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1718	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1544	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2321	1	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1756	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03232	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.172	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06534	1	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09	1	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1493	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1234	1	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06765	1	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09308	1	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1188	1	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2509	1	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.072	1	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.14	1	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.098	1	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	1	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.24	1	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.055	1	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.008771	1	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01373	1	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1549	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.06603	1	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.038	1	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0576	1	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.06615	1	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.06188	1	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2101	1	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1368	1	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.07072	1	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1293	1	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.077	1	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.03	1	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	1	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.046	1	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.26	1	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	1	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0396	1	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.05018	1	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0402	1	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02328	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.109	1	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1525	1	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.05852	1	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.098	1	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.089	1	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.076	1	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.077	1	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.05	1	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.054	1	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09198	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.08064	1	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07735	1	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.05525	1	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04266	1	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.11	1	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	1	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.069	1	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.044	1	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.07072	1	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1045	1	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05267	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06583	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1034	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04512	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09476	1	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2316	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.07866	1	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1008	1	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.092	1	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04972	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.05328	1	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0455	1	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.174	1	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0798	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3885	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05539	1	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.21	1	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1052	1	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04887	1	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.14	1	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	1	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.21	1	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.092	1	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.08322	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0603	1	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0654	1	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.08288	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.06061	1	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0965	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1351	1	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.093	1	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1372	1	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.008778	1	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01778	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02835	1	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03168	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0324	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03383	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03582	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03485	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0358	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0324	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03474	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.032	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.033	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.033	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.035	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03401	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03294	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03696	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03408	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.032	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03264	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03591	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0357	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03629	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0304	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03536	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0318	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.033	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0352	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03474	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03618	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03298	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03488	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03534	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03344	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.032	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.032	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.033	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03504	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0336	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03315	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03536	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03081	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.034	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.032	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.032	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03536	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0342	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03435	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03405	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0329	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03572	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03502	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03474	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03519	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.036	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.036	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0339	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03552	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03276	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03306	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0315	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03145	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03629	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0315	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03006	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03439	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.035	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.034	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.032	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03285	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03618	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03488	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0336	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03553	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03474	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03474	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03162	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03165	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03553	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03232	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03591	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0891	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.199	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1015	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0943	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09845	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.198	1	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0965	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.089	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.11	1	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.09	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.091	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	1	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.097	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09666	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0915	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1021	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09585	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09216	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09828	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09758	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09932	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0874	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09724	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5512	1	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.11	1	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.089	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.14	1	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.091	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.11	1	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.094	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0946	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0965	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.09849	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.09118	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0981	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.09672	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.09405	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.089	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.1	1	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.098	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.089	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.092	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.094	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2059	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4928	1	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09061	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09724	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.08769	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.095	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.088	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.088	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.09724	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1102	1	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1603	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09534	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2115	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09776	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09476	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4053	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09936	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0972	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09492	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2131	1	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.08918	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09048	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0861	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0888	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09741	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0882	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.08517	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09593	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.096	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.1	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.093	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.088	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.1	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4818	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1005	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09592	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1702	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09823	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.166	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09843	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.08928	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.08862	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1003	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02828	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09828	0	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	PCB-1016	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	PCB-1016	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	PCB-1016	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	PCB-1016	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	200	0	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	PCB-1016	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	PCB-1016	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	PCB-1016	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	PCB-1016	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1016	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	PCB-1016	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	55.7	0	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	PCB-1016	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1016	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	PCB-1016	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	PCB-1016	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	PCB-1016	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	200	0	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	PCB-1016	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1016	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	PCB-1016	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	PCB-1016	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	PCB-1221	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	PCB-1221	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	PCB-1221	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	PCB-1221	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	200	0	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	PCB-1221	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	PCB-1221	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	PCB-1221	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	PCB-1221	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1221	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	PCB-1221	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	55.7	0	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	PCB-1221	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1221	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	PCB-1221	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	PCB-1221	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	PCB-1221	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	200	0	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	PCB-1221	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1221	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	PCB-1221	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	PCB-1221	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	PCB-1232	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	PCB-1232	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	PCB-1232	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	PCB-1232	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	200	0	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	PCB-1232	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	PCB-1232	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	PCB-1232	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	PCB-1232	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1232	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	PCB-1232	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	55.7	0	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	PCB-1232	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1232	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	PCB-1232	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	PCB-1232	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	PCB-1232	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	200	0	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	PCB-1232	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1232	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	PCB-1232	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	PCB-1232	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	PCB-1242	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	PCB-1242	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	PCB-1242	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	PCB-1242	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	200	0	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	PCB-1242	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	PCB-1242	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	PCB-1242	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	PCB-1242	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1242	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	PCB-1242	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	55.7	0	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	PCB-1242	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1242	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	PCB-1242	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	PCB-1242	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	PCB-1242	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	200	0	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	PCB-1242	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1242	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	PCB-1242	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	PCB-1242	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	PCB-1248	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	PCB-1248	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	100	0	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	PCB-1248	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	PCB-1248	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	200	0	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	PCB-1248	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	PCB-1248	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	PCB-1248	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	PCB-1248	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1248	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	PCB-1248	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	55.7	0	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	PCB-1248	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1248	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	PCB-1248	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	100	0	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	PCB-1248	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	PCB-1248	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	200	0	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	PCB-1248	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1248	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	PCB-1248	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	PCB-1248	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	PCB-1254	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	141	1	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	PCB-1254	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	110	1	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	PCB-1254	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	64.9	1	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	PCB-1254	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	200	0	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	PCB-1254	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	PCB-1254	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	96.5	1	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	PCB-1254	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	PCB-1254	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1254	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	76.2	1	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	PCB-1254	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	121	1	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	PCB-1254	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	59.2	1	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1254	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	189	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	PCB-1254	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	130	1	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	PCB-1254	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	68.7	1	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	PCB-1254	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	200	0	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	PCB-1254	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1254	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	109	1	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	PCB-1254	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	99.6	1	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	PCB-1254	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	91.7	1	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	PCB-1260	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	320	1	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	PCB-1260	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	494	1	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	PCB-1260	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	176	1	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	PCB-1260	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	1120	1	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	PCB-1260	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	126	1	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	PCB-1260	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	296	1	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	PCB-1260	PCB	ER_B	ERM2.0	Spring 2010	ug/kg	140	1	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	PCB-1260	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	126	1	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1260	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	229	1	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	PCB-1260	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	309	1	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	PCB-1260	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	119	1	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1260	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	441	1	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	PCB-1260	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	296	1	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	PCB-1260	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	153	1	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	PCB-1260	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	757	1	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	PCB-1260	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	386	1	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	PCB-1260	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	227	1	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	PCB-1260	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	216	1	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	PCB-1260	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	188	1	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.297	1	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.234	1	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.398	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1572	1	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1579	1	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2506	1	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.27	1	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1737	1	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.2	1	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.19	1	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.2	1	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.2	1	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.22	1	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.23	1	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04654	1	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.05124	1	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.2816	1	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.2982	1	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.26	1	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3264	1	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2457	1	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1666	1	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3247	1	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.266	1	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3094	1	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.212	1	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.27	1	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.26	1	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.19	1	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.29	1	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.23	1	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.2	1	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.242	1	$p < 0.05$
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2702	1	$p < 0.05$
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3216	1	$p < 0.05$

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4656	1	p < 0.05
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4796	1	p < 0.05
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3348	1	p < 0.05
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3971	1	p < 0.05
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.36	1	p < 0.05
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.42	1	p < 0.05
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.44	1	p < 0.05
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.35	1	p < 0.05
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.41	1	p < 0.05
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.25	1	p < 0.05
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.438	1	p < 0.05
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3808	1	p < 0.05
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2873	1	p < 0.05
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3757	1	p < 0.05
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3555	1	p < 0.05
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.29	1	p < 0.05
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.33	1	p < 0.05
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.53	1	p < 0.05
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.35	1	p < 0.05
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.3978	1	p < 0.05
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.38	1	p < 0.05
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1626	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2497	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1951	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.376	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2884	1	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2123	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2277	1	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1494	1	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.166	1	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2712	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3774	1	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.364	1	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.261	1	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.315	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3145	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3247	1	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.357	1	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2505	1	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3801	1	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.2	1	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.22	1	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.28	1	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	1	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3942	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3417	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3924	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4928	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.418	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2509	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3667	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4278	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3587	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1003	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.07272	1	0.05 < p < 0.1
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0567	1	0.05 < p < 0.1
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002574	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0027	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.008955	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00995	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00943	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.009666	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00882	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.009457	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0026	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0027	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0027	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0029	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002864	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002745	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002992	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002769	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0026	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002688	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.009639	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002856	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002865	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00247	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002873	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002756	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0027	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0027	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.00286	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002895	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002814	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002716	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002834	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.00279	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002717	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0026	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0026	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0027	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002847	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002912	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002652	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002873	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002607	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0028	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0026	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0026	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0041	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.002873	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.00266	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002977	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002724	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00282	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00282	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002884	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002702	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002898	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.00288	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.003	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002712	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002886	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002548	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.00261	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00252	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00259	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002865	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00252	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002505	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002896	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0028	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0026	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002847	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.003015	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002834	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002688	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002926	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002895	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002895	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002604	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002532	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002926	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002626	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002835	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3762	1	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.008	1	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5771	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.075	1	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.533	1	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1486	1	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.306	1	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.6176	1	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.062	1	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.071	1	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.067	1	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.094	1	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.054	1	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.081	1	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01271	1	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01519	1	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.06336	1	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.05112	1	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.062	1	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.05184	1	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.21	1	p < 0.05
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5236	1	p < 0.05
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4584	1	p < 0.05
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.394	1	p < 0.05
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2873	1	p < 0.05
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4028	1	p < 0.05
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.31	1	p < 0.05
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.16	1	p < 0.05
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.26	1	p < 0.05
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.24	1	p < 0.05
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.1	1	p < 0.05
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	1	p < 0.05
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.484	1	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.6948	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	1.327	1	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4268	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4142	1	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.6324	1	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3344	1	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.11	1	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.05	1	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.067	1	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.066	1	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.062	1	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.056	1	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.184	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.448	1	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3757	1	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.238	1	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3792	1	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.079	1	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.077	1	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.054	1	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.11	1	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.06188	1	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0608	1	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1718	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1044	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.536	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.335	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1813	1	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.204	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.325	1	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0612	1	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.068	1	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.07684	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.07326	1	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.07644	1	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0696	1	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.399	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.425	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5157	1	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0777	1	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3674	1	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3077	1	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.24	1	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.11	1	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.081	1	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.063	1	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.14	1	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5256	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1688	1	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1199	1	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5152	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1777	1	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7334	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05597	1	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05394	1	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.06119	1	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01484	1	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.07676	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01285	1	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01247	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01278	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02587	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02786	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02665	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02685	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0252	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02702	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0136	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01299	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01426	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01342	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0126	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01306	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02703	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0138	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01413	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01216	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0137	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01272	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.04	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.037	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.037	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.038	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.041	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.039	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01342	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0137	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01387	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0128	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01373	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01358	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01338	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0138	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01344	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01282	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0137	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01232	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.012	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.012	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0137	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.01311	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01374	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01339	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01293	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01391	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0136	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01332	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01408	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01368	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0142	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01333	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01354	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01256	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0127	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01218	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01258	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01394	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01239	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01202	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01358	0	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.012	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01336	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01427	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01352	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01299	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.014	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01332	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0139	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01246	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01266	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01421	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01252	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01399	0	
KIF-ERM8.0_CC.F.G.04-FH-061710-P	Channel Catfish	Total Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	15.5	1	
KIF-ERM8.0_CC.F.G.08-FH-061710-P	Channel Catfish	Total Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	6.6	1	
KIF-ERM8.0_CC.F.C.01-FH-101110-A	Channel Catfish	Total Chlordane	Pesticides	ER_R	ERM8.0	Fall 2010	ug/kg	5.1	1	
KIF-ERM4.5_CC.F.G.03-FH-052710-P	Channel Catfish	Total Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	5.6	1	
KIF-ERM4.5_CC.F.G.06-FH-052710-P	Channel Catfish	Total Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	5	0	
KIF-ERM2.0_CC.F.G.05-FH-041510-P	Channel Catfish	Total Chlordane	Pesticides	ER_B	ERM2.0	Spring 2010	ug/kg	7.4	1	
KIF-ERM2.0_CC.F.G.06-FH-041510-P	Channel Catfish	Total Chlordane	Pesticides	ER_B	ERM2.0	Spring 2010	ug/kg	5	0	
KIF-ERM3.0_CC.F.C.01-FH-100710-A	Channel Catfish	Total Chlordane	Pesticides	ER_B	ERM3.0	Fall 2010	ug/kg	5	0	
KIF-ERM0.9_CC.F.G.02-FH-040610-P	Channel Catfish	Total Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	7.9	1	
KIF-ERM0.9_CC.F.G.04-FH-040610-P	Channel Catfish	Total Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	14.7	1	
KIF-ERM0.9_CC.F.C.01-FH-092910-A	Channel Catfish	Total Chlordane	Pesticides	ER_A	ERM0.9	Fall 2010	ug/kg	5.1	1	
KIF-CRM8.0_CC.F.G.02-FH-040610-P	Channel Catfish	Total Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	22.4	1	
KIF-CRM8.0_CC.F.G.03-FH-040610-P	Channel Catfish	Total Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	14.7	1	
KIF-CRM8.0_CC.F.C.01-FH-092810-A	Channel Catfish	Total Chlordane	Pesticides	CR_R	CRM8.0	Fall 2010	ug/kg	5.5	1	
KIF-CRM3.5_CC.F.G.02-FH-052010-P	Channel Catfish	Total Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	7.1	1	
KIF-CRM3.5_CC.F.G.05-FH-052010-P	Channel Catfish	Total Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	5	0	
KIF-CRM1.5_CC.F.G.02-FH-040610-P	Channel Catfish	Total Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	10	1	
KIF-CRM1.5_CC.F.G.05-FH-041210-P	Channel Catfish	Total Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	12	1	
KIF-CRM1.5_CC.F.C.01-FH-093010-A	Channel Catfish	Total Chlordane	Pesticides	CR_A	CRM1.5	Fall 2010	ug/kg	5	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04158	0	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0414	0	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04378	0	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04776	0	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0451	0	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04654	0	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0414	0	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04439	0	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.046	0	

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Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04475	0	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04209	0	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04752	0	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04473	0	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.042	0	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04416	0	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04536	0	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04522	0	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04584	0	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0399	0	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04641	0	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0424	0	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.045	0	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.042	0	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.042	0	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	0	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.046	0	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.044	0	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.044	0	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04632	0	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04623	0	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04268	0	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04578	0	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04464	0	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04389	0	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04599	0	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0448	0	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04199	0	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0442	0	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04029	0	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.045	0	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.041	0	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.041	0	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	0	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0442	0	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0437	0	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0458	0	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0454	0	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0423	0	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04512	0	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04532	0	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04439	0	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04761	0	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.045	0	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.046	0	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0452	0	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0444	0	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04186	0	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04176	0	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0399	0	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04255	0	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04584	0	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.042	0	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04008	0	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04525	0	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.045	0	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.047	0	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.044	0	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.041	0	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0928	0	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0438	0	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04623	0	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0436	0	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04256	0	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04598	0	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04439	0	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04632	0	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04092	0	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0422	0	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04807	0	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04242	0	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04536	0	
KIF-ERM8.0_CC.F.G.01-FH-040710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	6.277	1	
KIF-ERM8.0_CC.F.G.02-FH-040710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	6.768	1	
KIF-ERM8.0_CC.F.G.03-FH-061710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	6.408	1	
KIF-ERM8.0_CC.F.G.04-FH-061710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	6.547	1	
KIF-ERM8.0_CC.F.G.05-FH-061710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	7.462	1	
KIF-ERM8.0_CC.F.G.06-FH-061710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	6.623	1	
KIF-ERM8.0_CC.F.G.07-FH-061710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	12.04	1	
KIF-ERM8.0_CC.F.G.08-FH-061710	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	8.511	1	
KIF-ERM8.0_CC.F.G.01-FH-101110-A	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	6.8	1	
KIF-ERM8.0_CC.F.G.02-FH-101110-A	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	8.4	1	
KIF-ERM8.0_CC.F.G.03-FH-101110-A	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	6.7	1	
KIF-ERM8.0_CC.F.G.04-FH-101110-A	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	7.3	1	
KIF-ERM8.0_CC.F.G.05-FH-101110-A	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	10	1	
KIF-ERM8.0_CC.F.G.06-FH-101110-A	Channel Catfish	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	5	1	
KIF-LERM2.0_CC.F.G.01-FH-100410-A	Channel Catfish	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.9666	1	
KIF-LERM2.0_CC.F.G.02-FH-100410-A	Channel Catfish	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.8235	1	
KIF-LERM2.0_CC.F.G.03-FH-101210-A	Channel Catfish	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	7.128	1	
KIF-LERM2.0_CC.F.G.04-FH-101210-A	Channel Catfish	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	5.453	1	
KIF-LERM2.0_CC.F.G.05-FH-101210-A	Channel Catfish	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	7.98	1	
KIF-LERM2.0_CC.F.G.06-FH-101210-A	Channel Catfish	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	4.858	1	
KIF-ERM4.5_CC.F.G.01-FH-042110	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	7.428	1	
KIF-ERM4.5_CC.F.G.02-FH-052710	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	7.021	1	
KIF-ERM4.5_CC.F.G.03-FH-052710	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	6.532	1	
KIF-ERM4.5_CC.F.G.04-FH-052710	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	12.75	1	
KIF-ERM4.5_CC.F.G.05-FH-052710	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	7.249	1	
KIF-ERM4.5_CC.F.G.06-FH-052710	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	10.41	1	
KIF-ERM4.5_CC.F.G.01-FH-122910-A	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	8.3	1	
KIF-ERM4.5_CC.F.G.02-FH-122910-A	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	6.1	1	
KIF-ERM4.5_CC.F.G.03-FH-122910-A	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.3	1	
KIF-ERM4.5_CC.F.G.04-FH-122910-A	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.4	1	
KIF-ERM4.5_CC.F.G.05-FH-122910-A	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	8.5	1	
KIF-ERM4.5_CC.F.G.06-FH-122910-A	Channel Catfish	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.6	1	
KIF-ERM2.0_CC.F.G.01-FH-040610	Channel Catfish	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	7.04	1	
KIF-ERM2.0_CC.F.G.02-FH-041410	Channel Catfish	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	5.501	1	
KIF-ERM2.0_CC.F.G.03-FH-041410	Channel Catfish	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	7.216	1	
KIF-ERM2.0_CC.F.G.04-FH-041410	Channel Catfish	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	5.936	1	
KIF-ERM2.0_CC.F.G.05-FH-041510	Channel Catfish	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	6.693	1	
KIF-ERM2.0_CC.F.G.06-FH-041510	Channel Catfish	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	6.659	1	
KIF-ERM2.0_CC.F.G.07-FH-041510	Channel Catfish	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	5.539	1	
KIF-ERM3.0_CC.F.G.01-FH-100710-A	Channel Catfish	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	6.3	1	
KIF-ERM3.0_CC.F.G.02-FH-100710-A	Channel Catfish	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	5.4	1	
KIF-ERM3.0_CC.F.G.03-FH-100710-A	Channel Catfish	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	7.5	1	
KIF-ERM3.0_CC.F.G.04-FH-100710-A	Channel Catfish	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	5.6	1	
KIF-ERM3.0_CC.F.G.05-FH-100710-A	Channel Catfish	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	7.9	1	

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Appendix A-2. TVA Channel Catfish Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_CC.F.G.06-FH-100710-A	Channel Catfish	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	7	1	
KIF-ERM0.9_CC.F.G.01-FH-040610	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	9.132	1	
KIF-ERM0.9_CC.F.G.02-FH-040610	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	12.86	1	
KIF-ERM0.9_CC.F.G.03-FH-040610	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	7.735	1	
KIF-ERM0.9_CC.F.G.04-FH-040610	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	7.735	1	
KIF-ERM0.9_CC.F.G.05-FH-041210	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	6.778	1	
KIF-ERM0.9_CC.F.G.01-FH-092910-A	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	8.3	1	
KIF-ERM0.9_CC.F.G.02-FH-092910-A	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	6.9	1	
KIF-ERM0.9_CC.F.G.03-FH-092910-A	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	7.3	1	
KIF-ERM0.9_CC.F.G.04-FH-100710-A	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.8	1	
KIF-ERM0.9_CC.F.G.05-FH-101310-A	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	6.321	1	
KIF-ERM0.9_CC.F.G.06-FH-101310-A	Channel Catfish	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	5.187	1	
KIF-CRM8.0_CC.F.G.01-FH-040610	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	6.298	1	
KIF-CRM8.0_CC.F.G.02-FH-040610	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	5.493	1	
KIF-CRM8.0_CC.F.G.03-FH-040610	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	13.35	1	
KIF-CRM8.0_CC.F.G.04-FH-040610	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	6.298	1	
KIF-CRM8.0_CC.F.G.05-FH-040610	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	5.603	1	
KIF-CRM8.0_CC.F.G.06-FH-041310	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	12.72	1	
KIF-CRM8.0_CC.F.G.07-FH-041310	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	6.893	1	
KIF-CRM8.0_CC.F.G.01-FH-092810-A	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	5.634	1	
KIF-CRM8.0_CC.F.G.02-FH-101310-A	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	4.82	1	
KIF-CRM8.0_CC.F.G.03-FH-101310-A	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	5.175	1	
KIF-CRM8.0_CC.F.G.04-FH-101310-A	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	6.016	1	
KIF-CRM8.0_CC.F.G.05-FH-101310-A	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	5.86	1	
KIF-CRM8.0_CC.F.G.06-FH-101310-A	Channel Catfish	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	4.333	1	
KIF-CRM3.5_CC.F.G.01-FH-041210	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	7.245	1	
KIF-CRM3.5_CC.F.G.02-FH-052010	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	9.898	1	
KIF-CRM3.5_CC.F.G.03-FH-052010	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	6.819	1	
KIF-CRM3.5_CC.F.G.04-FH-052010	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	6.972	1	
KIF-CRM3.5_CC.F.G.05-FH-052010	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	7.265	1	
KIF-CRM3.5_CC.F.G.06-FH-052010	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	5.376	1	
KIF-CRM3.5_CC.F.G.01-FH-121510-A	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	8.1	1	
KIF-CRM3.5_CC.F.G.02-FH-121510-A	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.6	1	
KIF-CRM3.5_CC.F.G.03-FH-121510-A	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	9.1	1	
KIF-CRM3.5_CC.F.G.04-FH-121510-A	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	10.6	1	
KIF-CRM3.5_CC.F.G.05-FH-122110-A	Channel Catfish	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	8.2	1	
KIF-CRM1.5_CC.F.G.01-FH-040610	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	8.957	1	
KIF-CRM1.5_CC.F.G.02-FH-040610	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	5.507	1	
KIF-CRM1.5_CC.F.G.03-FH-040610	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	5.385	1	
KIF-CRM1.5_CC.F.G.04-FH-040610	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	7.347	1	
KIF-CRM1.5_CC.F.G.05-FH-041210	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	5.727	1	
KIF-CRM1.5_CC.F.G.06-FH-041410	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	12.08	1	
KIF-CRM1.5_CC.F.G.01-FH-093010-A	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	8.338	1	
KIF-CRM1.5_CC.F.G.02-FH-093010-A	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	5.543	1	
KIF-CRM1.5_CC.F.G.03-FH-093010-A	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	5.275	1	
KIF-CRM1.5_CC.F.G.04-FH-100410-A	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.191	1	
KIF-CRM1.5_CC.F.G.05-FH-100410-A	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.677	1	
KIF-CRM1.5_CC.F.G.06-FH-100410-A	Channel Catfish	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.512	1	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CRM - Clinch River Mile
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ERM - Emory River Mile
ER_R - Emory River Reference Reach
LERM - Little Emory River Mile
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
ND - non-detect
PCB - polychlorinated biphenyl
TVA - Tennessee Valley Authority

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	alpha-Chlordane	Pesticides	ER_R	ERM8.0	Fall 2010	ug/kg	2.5	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	2.5	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	9.4	1	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_B	ERM3.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_B	ERM3.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	alpha-Chlordane	Pesticides	ER_B	ERM3.0	Fall 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	alpha-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	alpha-Chlordane	Pesticides	ER_A	ERM0.9	Fall 2010	ug/kg	2.5	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	alpha-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	alpha-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5.4	1	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	alpha-Chlordane	Pesticides	CR_R	CRM8.0	Fall 2010	ug/kg	2.5	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	alpha-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	5.6	1	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	alpha-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	alpha-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	alpha-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	alpha-Chlordane	Pesticides	CR_A	CRM1.5	Fall 2010	ug/kg	2.5	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.772	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	4.158	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.879	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	4.161	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	4.087	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.614	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	7.918	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.101	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.598	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.959	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.134	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.96	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.7	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.6	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.8	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.8	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	4.1	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.5	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.689	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.929	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.822	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	4.037	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.856	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	3.801	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.154	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.754	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.866	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.1	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.08	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.874	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.1	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.1	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.6	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.8	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	3.767	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	3.971	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	3.65	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.037	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.008	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.158	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.8	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	4	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.6	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.9	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	4	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	3.8	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	4	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	8.28	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.047	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.047	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.976	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.701	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.999	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.9	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.1	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.8	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.6	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.5	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.1	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.117	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.813	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.996	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.117	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.051	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.002	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.659	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.915	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.924	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.79	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.863	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.741	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.924	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.95	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.942	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	4.038	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.876	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.88	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.6	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.8	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.1	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.2	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.9	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.6	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.142	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.12	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.702	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.848	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.998	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.962	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.648	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.584	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	4.066	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.532	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.811	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.813	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01374	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01496	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01409	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0149	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01477	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01314	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01434	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01482	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01307	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01434	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01502	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01418	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01324	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01421	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01377	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0147	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01387	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0137	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01491	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01367	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01404	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01476	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01476	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01392	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01358	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01442	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01318	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01449	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01445	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01491	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02898	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0147	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0147	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01442	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01339	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01441	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01484	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01385	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01447	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01484	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01456	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01455	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01327	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01418	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01417	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0138	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01389	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01355	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01421	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01421	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01424	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01463	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01391	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.014	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01498	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01483	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01338	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01394	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0145	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01427	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01325	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01298	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01477	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01274	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0138	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01385	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1661	1	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1848	1	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1428	1	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1573	1	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1348	1	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09417	1	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02033	1	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03451	1	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1025	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08132	1	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1307	1	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1438	1	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.072	1	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	1	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.14	1	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.092	1	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.21	1	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.21	1	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01497	1	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03135	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01843	1	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02898	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02652	1	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03536	1	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1619	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1845	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2376	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1066	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1374	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.167	1	p < 0.05

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.26	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.41	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.21	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.31	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.33	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.27	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.173	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1965	1	p < 0.05
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1728	1	p < 0.05
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1283	1	p < 0.05
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1577	1	p < 0.05
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1743	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.2	1	p < 0.05
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	1	p < 0.05
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.18	1	p < 0.05
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.3	1	p < 0.05
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	1	p < 0.05
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	1	p < 0.05
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.3	1	p < 0.05
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3519	1	p < 0.05
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3408	1	p < 0.05
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3195	1	p < 0.05
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.206	1	p < 0.05
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0744	1	p < 0.05
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3654	1	p < 0.05
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.28	1	p < 0.05
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.34	1	p < 0.05
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.38	1	p < 0.05
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.35	1	p < 0.05
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.32	1	p < 0.05
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.14	1	p < 0.05
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3135	1	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2045	1	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.216	1	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2926	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1308	1	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2568	1	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2996	1	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3375	1	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3052	1	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1916	1	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2821	1	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1742	1	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3059	1	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2717	1	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2628	1	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2678	1	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.212	1	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.174	1	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.32	1	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.33	1	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.21	1	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.33	1	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.26	1	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2574	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2472	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3345	1	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09984	1	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0588	1	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2556	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1498	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.206	1	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2782	1	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1023	1	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1463	1	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2343	1	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04305	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0484	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04439	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04761	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04708	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04161	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04494	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04669	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04623	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04494	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0468	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04531	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.047	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.04	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04123	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04598	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04462	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0118	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04488	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0442	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04686	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0434	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0432	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0492	1	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0656	1	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04408	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.047	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.046	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.055	1	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.11	1	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.26	1	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.06	1	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0438	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04598	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04104	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04554	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04599	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0483	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.045	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09522	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04686	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04686	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04532	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04278	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04669	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.056	1	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.043	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.042	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.04	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04807	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04473	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04536	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04807	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04642	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04494	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0428	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.045	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04578	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04326	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0434	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.043	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5871	1	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04598	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1095	1	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04532	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04332	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.104	1	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.042	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.044	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.046	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.048	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.045	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.042	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0468	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04738	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04237	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04368	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04508	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04473	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04224	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0412	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04708	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04053	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04326	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04473	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05638	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06204	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02895	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0621	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02996	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02628	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1177	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03045	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02613	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02996	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0312	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02955	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.03	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.026	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02821	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02926	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0291	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02898	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02856	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02873	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02982	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02821	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02808	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03075	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03075	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02784	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.061	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.059	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.055	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.061	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.054	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.057	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02847	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05957	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02592	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02898	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02847	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0315	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.029	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.03	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.03	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.06003	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02982	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02982	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02884	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0279	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03045	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.028	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.027	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.026	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.03	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03135	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02769	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03024	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03135	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02954	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02996	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02782	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02925	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02834	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02884	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02821	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02795	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05871	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05894	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05869	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.06015	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05791	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0578	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.03	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.031	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03042	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0309	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02676	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02912	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0294	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02982	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05376	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05356	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.06206	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05211	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05768	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05751	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3895	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.44	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4053	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4347	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.428	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3723	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.8132	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4263	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3819	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4066	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.429	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4137	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.39	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.42	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.36	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3906	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.418	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.388	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.414	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.408	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3978	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.426	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3906	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3888	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4305	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4305	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3944	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.42	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.41	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.42	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.39	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3942	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.418	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3672	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.414	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4161	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.42	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.39	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.41	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.38	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.42	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.39	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.42	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.8487	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.426	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.426	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.412	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3906	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.406	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.41	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.43	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.39	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.38	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.36	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.42	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.418	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4047	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4104	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.418	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.422	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4066	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3852	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.405	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4142	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3914	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3906	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.387	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4017	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.418	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4161	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.412	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4104	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.38	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.42	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.43	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.38	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4212	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4326	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3791	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3952	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4116	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4047	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.384	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3708	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.428	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3667	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3914	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4047	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007175	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00792	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007334	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007866	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.007704	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.006789	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.00749	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.007917	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.006834	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.00749	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0078	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.007486	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.007	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0069	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0072	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0073	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0078	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0066	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.006944	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007524	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007372	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007659	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007344	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.007293	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007881	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007161	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007344	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00779	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00779	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.007424	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0078	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0076	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.007	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0078	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0069	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0072	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007227	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007524	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.006912	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007659	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.007665	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.00798	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0072	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0075	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0069	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0073	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0077	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0072	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0077	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01573	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007668	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007668	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007622	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007068	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.007511	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0075	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0078	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0072	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0069	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0067	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0078	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007942	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007242	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00756	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007942	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007807	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007704	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007062	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007425	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007412	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.00721	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007378	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.007095	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007416	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007524	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007446	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007622	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.007296	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0074	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0069	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0073	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0077	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0079	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0074	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0069	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007956	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007828	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007136	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.00728	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007644	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.007455	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.006912	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.006798	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007704	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.006755	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.00721	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.007242	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1189	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.132	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1235	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1325	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1305	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1139	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2568	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1299	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1146	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1263	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1307	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1261	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.11	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1172	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1254	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1222	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1283	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1224	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1216	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1321	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1432	1	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1231	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1292	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1292	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.123	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1183	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1254	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1166	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1283	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.127	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1323	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.11	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2691	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1278	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1278	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1257	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1172	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1259	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.11	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1317	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1214	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1274	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2508	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1287	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1263	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1156	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1238	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1243	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1195	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1215	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1183	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1236	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1254	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1248	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1277	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1231	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.122	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.131	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1318	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1182	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1227	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1274	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1257	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1152	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1133	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1284	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1119	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1215	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1214	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01333	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01452	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0137	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0147	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01434	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0127	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02782	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01441	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01266	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01391	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01463	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01399	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.012	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01302	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01379	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01339	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01428	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01346	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01348	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0147	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01324	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01361	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01435	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01435	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01369	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01314	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01274	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01428	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01402	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01617	1	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.016	1	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02898	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01427	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01427	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01401	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01302	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01401	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.012	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01442	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01342	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01404	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01442	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01414	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01412	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01284	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01373	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01373	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01339	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01367	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01355	1	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01761	1	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.014	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0138	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01421	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01368	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0136	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01451	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01442	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01293	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01352	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01411	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01385	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01286	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01257	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01434	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01235	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01339	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01342	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.246	1	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.352	1	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.579	1	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2484	1	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2568	1	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2628	1	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3852	1	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3045	1	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.193	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2782	1	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2145	1	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5319	1	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.24	1	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.27	1	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.26	1	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.18	1	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.32	1	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.36	1	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.07161	1	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3762	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0388	1	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.05175	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.3468	1	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.2431	1	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6177	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6076	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2808	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2665	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2665	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2018	1	p < 0.05
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.28	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.29	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.87	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.2	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.29	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.2	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2409	1	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2508	1	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	7.279	1	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1925	1	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.219	1	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.231	1	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.71	1	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.31	1	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.57	1	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.27	1	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.34	1	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2898	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.213	1	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2343	1	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2678	1	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1841	1	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2233	1	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.42	1	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.3	1	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.35	1	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.44	1	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.36	1	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.31	1	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3344	1	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2769	1	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2376	1	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3344	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1498	1	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1905	1	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3852	1	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3375	1	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.6104	1	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2884	1	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3255	1	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2365	1	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5562	1	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2926	1	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2059	1	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2266	1	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3648	1	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.196	1	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	9.7	1	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.41	1	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.35	1	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.33	1	

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KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.31	1	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.27	1	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4914	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.309	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5352	1	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2912	1	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.194	1	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3834	1	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2496	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2678	1	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.5778	1	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2509	1	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3708	1	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.5538	1	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_R	ERM8.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	gamma-Chlordane	Pesticides	ER_R	ERM8.0	Fall 2010	ug/kg	2.5	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	2.5	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_C	ERM4.5	Spring 2010	ug/kg	2.5	0	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_B	ERM3.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_B	ERM3.0	Spring 2010	ug/kg	2.5	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	gamma-Chlordane	Pesticides	ER_B	ERM3.0	Fall 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	gamma-Chlordane	Pesticides	ER_A	ERM0.9	Spring 2010	ug/kg	2.5	0	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	gamma-Chlordane	Pesticides	ER_A	ERM0.9	Fall 2010	ug/kg	2.5	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Fall 2010	ug/kg	2.5	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	gamma-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	gamma-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	gamma-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	gamma-Chlordane	Pesticides	CR_A	CRM1.5	Spring 2010	ug/kg	2.5	0	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	gamma-Chlordane	Pesticides	CR_A	CRM1.5	Fall 2010	ug/kg	2.5	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02665	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0286	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02702	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02898	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02782	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02409	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02782	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02842	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02412	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02782	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02925	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02955	1	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.025	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.024	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02604	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01944	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02716	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02898	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02652	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02652	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02982	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02604	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02592	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0287	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0287	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02784	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.039	1	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.041	1	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.025	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02628	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02717	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2376	1	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02898	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02847	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0294	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.03	1	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.027	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.026	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.028	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02898	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02769	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02769	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02678	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02604	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02842	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.027	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.026	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.025	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.024	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.029	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02926	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02556	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02808	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02926	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02743	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02782	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02568	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.027	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02834	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02678	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.02604	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0258	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02719	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02717	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02847	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02884	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02736	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.026	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.21	1	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.025	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02808	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02884	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02676	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02704	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02744	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02769	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02496	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02472	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02782	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02509	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02678	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02556	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.205	1	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.176	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.166	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.176	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1733	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1533	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3424	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1827	1	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1709	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1691	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1755	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1675	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.17	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.15	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1562	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.08987	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.163	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04968	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03876	1	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1613	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1768	0	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1606	0	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.175	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.246	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1804	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1647	0	p < 0.05
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.18	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.17	0	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.26	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.27	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.95	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.41	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1599	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2299	1	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1685	1	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1718	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1708	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1764	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	1	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.18	1	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.21	1	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.18	1	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.16	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.17	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3519	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1811	1	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1725	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1689	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1581	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1726	1	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.18	1	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.29	1	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.19	1	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.15	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.19	1	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.17	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2299	1	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1896	1	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2376	1	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1756	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.173	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1712	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.2354	1	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1823	1	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1679	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.171	1	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1649	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1591	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.719	1	0.05 < p < 0.1
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2299	1	0.05 < p < 0.1
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3066	1	0.05 < p < 0.1
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3708	1	0.05 < p < 0.1
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.228	1	0.05 < p < 0.1
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.28	1	0.05 < p < 0.1
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.19	1	0.05 < p < 0.1
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.16	0	0.05 < p < 0.1
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	0	0.05 < p < 0.1
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.18	0	0.05 < p < 0.1
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	0	0.05 < p < 0.1
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	0	0.05 < p < 0.1
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1778	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2884	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1695	1	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1643	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1705	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1874	1	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1882	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1751	1	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1733	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2702	1	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.2019	1	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1832	1	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1107	1	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1298	1	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2123	1	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1449	1	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1327	1	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1314	1	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2354	1	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1035	1	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0804	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1156	1	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0936	1	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08668	1	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.17	1	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.14	1	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	1	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.19	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	1	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.13	1	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.07161	1	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.06479	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02134	1	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01842	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0204	1	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02431	1	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09585	1	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.08897	1	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.06048	1	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1148	1	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1189	1	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1276	1	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.11	1	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.044	1	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.28	1	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.1	1	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.041	1	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.07	1	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05913	1	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1003	1	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.07992	1	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09729	1	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1862	1	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1512	1	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.12	1	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.1	1	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.14	1	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.047	1	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.089	1	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.098	1	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.095	1	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.08694	1	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0639	1	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07881	1	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09682	1	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2976	1	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07714	1	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.086	1	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.071	1	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.074	1	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.069	1	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.075	1	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.28	1	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1212	1	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1022	1	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1685	1	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08569	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1667	1	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1584	1	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.08132	1	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1125	1	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.05886	1	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1195	1	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.08246	1	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1462	1	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04017	1	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1296	1	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.138	1	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.06798	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1003	1	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.096	1	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.079	1	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.039	1	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	1	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.041	1	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.14	1	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.075	1	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04212	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.08034	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05798	1	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3952	1	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2156	1	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07455	1	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09792	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.06386	1	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0642	1	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1776	1	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09888	1	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.06177	1	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0328	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0374	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03474	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03726	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03638	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03066	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03424	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03654	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03216	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03424	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03705	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03546	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.033	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.032	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.033	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.036	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.031	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03255	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03553	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03298	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03519	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03468	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.03315	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03621	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03255	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03456	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0369	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03485	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0348	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.035	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.033	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03285	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03553	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0324	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03519	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03504	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0357	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.033	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.032	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.036	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.033	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.035	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07245	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03621	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03621	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03502	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03162	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03451	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.035	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.033	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.032	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.031	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03553	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03408	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03456	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03553	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03587	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03424	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0321	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03375	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03488	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03296	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03472	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03225	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03399	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03553	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03504	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03502	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0342	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.034	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.032	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.034	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.034	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.032	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03744	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03708	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03345	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03328	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03528	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03408	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03264	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0309	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03638	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03088	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03296	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03408	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09225	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1012	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09457	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1014	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1006	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0876	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1926	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.09947	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08844	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0963	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1014	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.09653	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.09	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.089	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.092	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.093	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.1	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.085	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.08897	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.5852	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09312	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04554	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09384	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09282	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1022	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1085	1	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09504	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1005	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1005	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09512	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.1	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.097	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.089	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.32	1	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.089	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.093	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09198	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09614	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.756	1	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09936	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09855	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1008	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.092	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.096	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.13	1	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.094	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.099	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.092	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.098	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2029	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09798	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09798	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09682	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09114	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09744	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.096	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.092	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.089	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.086	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1003	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09372	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0972	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1233	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09917	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09844	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.08988	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09675	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09592	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0927	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09331	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09245	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09579	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09614	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09636	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09888	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09348	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.094	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.089	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.094	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.099	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.51	1	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.16	1	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.089	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.103	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1339	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0892	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0936	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.098	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09585	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1094	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.08652	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09844	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.08685	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0927	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.09372	0	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	PCB-1016	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	PCB-1016	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	PCB-1016	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	PCB-1016	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	PCB-1016	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	100	0	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	PCB-1016	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	PCB-1016	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	PCB-1016	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1016	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	PCB-1016	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	PCB-1016	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	PCB-1016	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	PCB-1016	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	PCB-1016	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	PCB-1016	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1016	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	PCB-1016	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	PCB-1016	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	PCB-1016	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	PCB-1016	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	PCB-1221	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	PCB-1221	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	PCB-1221	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	PCB-1221	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	PCB-1221	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	100	0	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	PCB-1221	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	PCB-1221	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	PCB-1221	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1221	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	PCB-1221	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	PCB-1221	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	PCB-1221	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	PCB-1221	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	PCB-1221	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	PCB-1221	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1221	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	PCB-1221	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	PCB-1221	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	PCB-1221	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	PCB-1221	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	PCB-1232	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	PCB-1232	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	PCB-1232	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	PCB-1232	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	PCB-1232	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	100	0	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	PCB-1232	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	PCB-1232	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	PCB-1232	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1232	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	PCB-1232	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	PCB-1232	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	PCB-1232	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	PCB-1232	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	PCB-1232	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	PCB-1232	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1232	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	PCB-1232	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	PCB-1232	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	PCB-1232	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	PCB-1232	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	PCB-1242	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	PCB-1242	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	PCB-1242	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	PCB-1242	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	PCB-1242	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	100	0	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	PCB-1242	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	PCB-1242	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	PCB-1242	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1242	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	PCB-1242	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	PCB-1242	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	PCB-1242	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	PCB-1242	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	PCB-1242	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	PCB-1242	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1242	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	PCB-1242	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	PCB-1242	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	PCB-1242	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	PCB-1242	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	PCB-1248	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	PCB-1248	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	PCB-1248	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	PCB-1248	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	PCB-1248	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	100	0	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	PCB-1248	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	PCB-1248	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	PCB-1248	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1248	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	PCB-1248	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	PCB-1248	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	PCB-1248	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	PCB-1248	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	PCB-1248	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	PCB-1248	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1248	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	100	0	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	PCB-1248	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	PCB-1248	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	PCB-1248	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	PCB-1248	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	PCB-1254	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	PCB-1254	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	PCB-1254	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	PCB-1254	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	50	0	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	PCB-1254	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	213	1	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	PCB-1254	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	PCB-1254	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	50	0	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	PCB-1254	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1254	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	PCB-1254	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	PCB-1254	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	50	0	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	PCB-1254	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	PCB-1254	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	PCB-1254	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	69	1	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	PCB-1254	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	50	0	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1254	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	127	1	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	PCB-1254	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	50	0	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	PCB-1254	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	60	1	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	PCB-1254	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	83.3	1	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	PCB-1254	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	50	0	
KIF-ERM8.0_BS.F.G.01-FH-042010-P	Largemouth Bass	PCB-1260	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	97.6	1	
KIF-ERM8.0_BS.F.G.02-FH-041510-P	Largemouth Bass	PCB-1260	PCB	ER_R	ERM8.0	Spring 2010	ug/kg	105	1	
KIF-ERM8.0_BS.F.C.01-FH-101110-A	Largemouth Bass	PCB-1260	PCB	ER_R	ERM8.0	Fall 2010	ug/kg	61	1	
KIF-ERM4.5_BS.F.G.04-FH-042110-P	Largemouth Bass	PCB-1260	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	73.9	1	
KIF-ERM4.5_BS.F.G.06-FH-042110-P	Largemouth Bass	PCB-1260	PCB	ER_C	ERM4.5	Spring 2010	ug/kg	497	1	
KIF-ERM3.0_BS.F.G.01-FH-041410-P	Largemouth Bass	PCB-1260	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	152	1	
KIF-ERM3.0_BS.F.G.01-FH-041510-P	Largemouth Bass	PCB-1260	PCB	ER_B	ERM3.0	Spring 2010	ug/kg	100	1	
KIF-ERM3.0_BS.F.C.01-FH-100710-A	Largemouth Bass	PCB-1260	PCB	ER_B	ERM3.0	Fall 2010	ug/kg	68.6	1	
KIF-ERM0.9_BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1260	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	91.9	1	
KIF-ERM0.9_BS.F.G.02-FH-041210-P	Largemouth Bass	PCB-1260	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	60.3	1	
KIF-ERM0.9_BS.F.G.03-FH-041210-P	Largemouth Bass	PCB-1260	PCB	ER_A	ERM0.9	Spring 2010	ug/kg	158	1	
KIF-ERM0.9_BS.F.C.01-FH-092910-A	Largemouth Bass	PCB-1260	PCB	ER_A	ERM0.9	Fall 2010	ug/kg	105	1	
KIF-CRM8.0_BS.F.G.01-FH-041310-P	Largemouth Bass	PCB-1260	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	95.3	1	
KIF-CRM8.0_BS.F.G.02-FH-041310-P	Largemouth Bass	PCB-1260	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	192	1	
KIF-CRM8.0_BS.F.C.01-FH-092810-A	Largemouth Bass	PCB-1260	PCB	CR_R	CRM8.0	Fall 2010	ug/kg	81.3	1	
KIF-CRM3.5-BS.F.G.01-FH-041210-P	Largemouth Bass	PCB-1260	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	383	1	
KIF-CRM3.5-BS.F.G.06-FH-041210-P	Largemouth Bass	PCB-1260	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	90.3	1	
KIF-CRM1.5_BS.F.G.04-FH-041410-P	Largemouth Bass	PCB-1260	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	234	1	
KIF-CRM1.5_BS.F.G.05-FH-041410-P	Largemouth Bass	PCB-1260	PCB	CR_A	CRM1.5	Spring 2010	ug/kg	222	1	
KIF-CRM1.5_BS.F.C.01-FH-093010-A	Largemouth Bass	PCB-1260	PCB	CR_A	CRM1.5	Fall 2010	ug/kg	66.9	1	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.492	1	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.462	1	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3667	1	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4968	1	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4494	1	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.438	1	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4708	1	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5481	1	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4221	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5136	1	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4095	1	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.394	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.45	1	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.35	1	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.66	1	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.54	1	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1128	1	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.117	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.4462	1	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1159	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1142	1	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.09945	1	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5751	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6944	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.432	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.492	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5945	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3712	1	p < 0.05
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.46	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.7	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.46	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.76	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.7	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.64	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.876	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6479	1	p < 0.05
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4536	1	p < 0.05
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.7245	1	p < 0.05
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6132	1	p < 0.05
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.63	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.7	1	p < 0.05
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.74	1	p < 0.05
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.7	1	p < 0.05
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.77	1	p < 0.05
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.85	1	p < 0.05
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.8	1	p < 0.05
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.77	1	p < 0.05
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4968	1	p < 0.05
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6177	1	p < 0.05
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.5964	1	p < 0.05
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6386	1	p < 0.05
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.7254	1	p < 0.05
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6293	1	p < 0.05
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.81	1	p < 0.05
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.78	1	p < 0.05
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.73	1	p < 0.05
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.74	1	p < 0.05
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.77	1	p < 0.05
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.66	1	p < 0.05
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5852	1	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4473	1	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4752	1	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5643	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.422	1	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4922	1	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.7704	1	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.5625	1	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.6758	1	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.412	1	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4123	1	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4515	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5253	1	p < 0.05
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4807	1	p < 0.05
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5694	1	p < 0.05
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6592	1	p < 0.05
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6612	1	p < 0.05
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.48	1	p < 0.05
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.8	1	p < 0.05
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.62	1	p < 0.05
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.91	1	p < 0.05
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.66	1	p < 0.05
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.72	1	p < 0.05
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.67	1	p < 0.05
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4212	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3914	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.446	1	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3952	1	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4312	1	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5325	1	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.5184	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.8652	1	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.642	1	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.004	1	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.927	1	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.6816	1	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002665	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00308	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002895	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002898	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.009844	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00876	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002782	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.003045	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002613	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002782	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002925	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002758	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0027	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0026	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0027	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0025	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002604	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002926	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002716	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002898	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002856	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.002652	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002982	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002821	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002808	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00287	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00287	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002784	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.003	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.003	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002628	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002926	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002592	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002898	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.009636	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.00294	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0027	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0026	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0027	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.0029	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.006003	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002982	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002982	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002884	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002604	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002842	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0028	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.003	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0027	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0026	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0025	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.003	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002926	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002769	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002808	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002926	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002954	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002996	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002568	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002925	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002834	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002678	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002821	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.002795	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002843	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002926	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002847	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002884	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002736	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0028	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0026	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0028	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0028	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0026	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.003042	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002884	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002676	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.00936	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.009604	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.009585	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002688	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002678	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002996	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002509	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002678	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.002769	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06765	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1166	1	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4053	1	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06003	1	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1648	1	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1051	1	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1498	1	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1949	1	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5427	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1198	1	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04875	1	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2758	1	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	1	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.1	1	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.46	1	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.046	1	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.17	1	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.16	1	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.009548	1	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.07942	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01242	1	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.1387	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.02448	1	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04199	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1044	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.07595	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.432	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.8405	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.984	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1415	1	p < 0.05
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.68	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.51	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.96	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.8	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	5.1	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.75	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.08103	1	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3762	1	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1274	1	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3105	1	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1051	1	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1722	1	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.3	1	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.14	1	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.21	1	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.066	1	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.096	1	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.074	1	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.18	1	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2898	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3621	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07455	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.08858	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1395	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.201	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.28	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.75	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.23	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.24	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.18	1	0.05 < p < 0.1
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2299	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08307	1	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1814	1	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1317	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06541	1	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1562	1	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.5992	1	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.27	1	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09156	1	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.515	1	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.07595	1	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.344	1	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	15.82	1	p < 0.05
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6897	1	p < 0.05
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.431	1	p < 0.05
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.009	1	p < 0.05
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5472	1	p < 0.05
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.56	1	p < 0.05
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.57	1	p < 0.05
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.16	1	p < 0.05
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.34	1	p < 0.05
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	1	p < 0.05
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.26	1	p < 0.05
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.21	1	p < 0.05
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09126	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2884	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3345	1	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1518	1	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.08624	1	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1938	1	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3456	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3708	1	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1391	1	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.5983	1	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.3296	1	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1448	1	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01312	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01606	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01332	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01428	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01412	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01248	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0137	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01421	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01246	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0137	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01424	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01359	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.012	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0128	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01359	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01319	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01387	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01326	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.01304	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01598	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01541	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01339	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01415	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01415	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01322	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.016	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0219	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03971	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01253	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01615	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0138	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01428	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.012	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.019	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.017	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03519	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01363	0	
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01427	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0136	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01283	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01929	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.016	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01797	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01321	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01382	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01421	0	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01393	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0137	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01263	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0135	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01352	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01318	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.01324	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0129	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0136	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01359	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01358	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0138	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01482	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.015	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.017	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01474	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01421	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01271	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01331	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01372	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01363	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01267	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01236	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01412	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01216	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01318	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01321	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04305	0	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0484	0	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04439	0	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04761	0	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04708	0	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04161	0	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.08988	0	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1401	0	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0402	0	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1776	0	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0468	0	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04531	0	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.042	0	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.047	0	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.04	0	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04123	0	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04598	0	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04462	0	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04554	0	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.04488	0	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	0.0442	0	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05112	0	
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1606	0	
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.08424	0	
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04715	0	
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0533	0	
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1114	0	
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.047	0	
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.045	0	
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.042	0	
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.047	0	
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.042	0	
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	0	
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0438	0	
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04598	0	
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04104	0	
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04554	0	
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04599	0	
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0483	0	
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.045	0	
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.041	0	
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.044	0	
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.043	0	
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	0.046	0	
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09522	0	
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04686	0	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04686	0	
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04532	0	
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04278	0	
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04466	0	
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.045	0	
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	0	
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.043	0	
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.042	0	
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.04	0	
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.047	0	
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04807	0	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0426	0	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04536	0	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08151	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04642	0	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04494	0	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0428	0	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.045	0	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04578	0	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.04326	0	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0434	0	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.043	0	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04635	0	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04598	0	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04599	0	
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04532	0	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04332	0	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.044	0	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.042	0	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.044	0	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.046	0	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.047	0	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.044	0	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.042	0	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0468	0	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04738	0	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04237	0	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04368	0	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04508	0	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04473	0	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04224	0	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0412	0	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04708	0	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04053	0	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04326	0	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0426	0	
KIF-ERM8.0_BS.F.G.01-FH-041510	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	9.287	1	
KIF-ERM8.0_BS.F.G.01-FH-042010	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	9.526	1	
KIF-ERM8.0_BS.F.G.02-FH-041510	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	6.253	1	
KIF-ERM8.0_BS.F.G.02-FH-042010	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	10.1	1	
KIF-ERM8.0_BS.F.G.03-FH-042010	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	8.924	1	
KIF-ERM8.0_BS.F.G.04-FH-042010	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	8.125	1	
KIF-LERM2.0_BS.F.G.01-FH-041510	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	6.056	1	
KIF-LERM2.0_BS.F.G.01-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.101	1	
KIF-LERM2.0_BS.F.G.02-FH-041510	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	5.005	1	
KIF-LERM2.0_BS.F.G.02-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	7.019	1	
KIF-LERM2.0_BS.F.G.03-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	8.171	1	
KIF-LERM2.0_BS.F.G.04-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	6.56	1	
KIF-ERM8.0_BS.F.G.01-FH-101110-A	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	7.3	1	
KIF-ERM8.0_BS.F.G.02-FH-101110-A	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	12.5	1	
KIF-ERM8.0_BS.F.G.03-FH-101110-A	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	11.9	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BS.F.G.04-FH-101110-A	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	9.1	1	
KIF-ERM8.0_BS.F.G.05-FH-101110-A	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	10.5	1	
KIF-ERM8.0_BS.F.G.06-FH-101110-A	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	14.9	1	
KIF-LERM2.0_BS.F.G.01-FH-100410-A	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	1.996	1	
KIF-LERM2.0_BS.F.G.02-FH-100410-A	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	11.14	1	
KIF-LERM2.0_BS.F.G.03-FH-100410-A	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	1.727	1	
KIF-LERM2.0_BS.F.G.04-FH-100410-A	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	2.029	1	
KIF-LERM2.0_BS.F.G.05-FH-100410-A	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	8.017	1	
KIF-LERM2.0_BS.F.G.06-FH-100410-A	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2010	mg/kg	1.68	1	
KIF-ERM4.5_BS.F.G.01-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	12.91	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	10.44	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	9.31	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	8.61	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	10.33	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-042110	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	5.777	1	p < 0.05
KIF-ERM4.5_BS.F.G.01-FH-010411-A	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.9	1	p < 0.05
KIF-ERM4.5_BS.F.G.02-FH-010411-A	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	12.6	1	p < 0.05
KIF-ERM4.5_BS.F.G.03-FH-010411-A	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	8.6	1	p < 0.05
KIF-ERM4.5_BS.F.G.04-FH-010411-A	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	9.9	1	p < 0.05
KIF-ERM4.5_BS.F.G.05-FH-010411-A	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	11.6	1	p < 0.05
KIF-ERM4.5_BS.F.G.06-FH-010411-A	Largemouth Bass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	15.4	1	p < 0.05
KIF-ERM3.0_BS.F.G.01-FH-041410	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	6.482	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.01-FH-041510	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	8.465	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.02-FH-041410	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	10.58	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.02-FH-041510	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.968	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.03-FH-041410	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	6.263	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.03-FH-041510	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	7.182	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.01-FH-100710-A	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	14.1	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.02-FH-100710-A	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	10.5	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.03-FH-100710-A	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	10.8	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.04-FH-100710-A	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	10.6	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.05-FH-100710-A	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	10.4	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.06-FH-100710-A	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	7.7	1	0.05 < p < 0.1
KIF-ERM3.0_BS.F.G.07-FH-100710-A	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2010	mg/kg	15.6	1	0.05 < p < 0.1
KIF-ERM0.9_BS.F.G.01-FH-041210	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	13.95	1	p < 0.05
KIF-ERM0.9_BS.F.G.02-FH-041210	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	7.583	1	p < 0.05
KIF-ERM0.9_BS.F.G.03-FH-041210	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	6.859	1	p < 0.05
KIF-ERM0.9_BS.F.G.04-FH-041210	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	7.684	1	p < 0.05
KIF-ERM0.9_BS.F.G.05-FH-041210	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	5.673	1	p < 0.05
KIF-ERM0.9_BS.F.G.06-FH-041210	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	8.81	1	p < 0.05
KIF-ERM0.9_BS.F.G.01-FH-092910-A	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	9.1	1	p < 0.05
KIF-ERM0.9_BS.F.G.02-FH-092910-A	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	20.3	1	p < 0.05
KIF-ERM0.9_BS.F.G.03-FH-092910-A	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	12.9	1	p < 0.05
KIF-ERM0.9_BS.F.G.04-FH-092910-A	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	11.9	1	p < 0.05
KIF-ERM0.9_BS.F.G.05-FH-092910-A	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	9.6	1	p < 0.05
KIF-ERM0.9_BS.F.G.06-FH-092910-A	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	12.7	1	p < 0.05
KIF-CRM8.0_BS.F.G.01-FH-041310	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	8.694	1	
KIF-CRM8.0_BS.F.G.02-FH-041310	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	8.328	1	
KIF-CRM8.0_BS.F.G.03-FH-041310	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	7.43	1	
KIF-CRM8.0_BS.F.G.04-FH-041310	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	7.942	1	
KIF-CRM8.0_BS.F.G.05-FH-041310	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.136	1	
KIF-CRM8.0_BS.F.G.06-FH-041310	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	8.004	1	
KIF-CRM8.0_BS.F.G.01-FH-092810-A	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	19.13	1	
KIF-CRM8.0_BS.F.G.02-FH-092810-A	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	13.32	1	
KIF-CRM8.0_BS.F.G.03-FH-092810-A	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	11.79	1	
KIF-CRM8.0_BS.F.G.04-FH-092810-A	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	10.71	1	
KIF-CRM8.0_BS.F.G.05-FH-092810-A	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	10.68	1	
KIF-CRM8.0_BS.F.G.06-FH-092810-A	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	8.686	1	
KIF-CRM3.5-BS.F.G.01-FH-041210	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	16.22	1	
KIF-CRM3.5-BS.F.G.02-FH-041210	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	9.614	1	
KIF-CRM3.5-BS.F.G.03-FH-041210	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	6.351	1	

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Appendix A-3. TVA Largemouth Bass Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BS.F.G.04-FH-041210	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	8.734	1	
KIF-CRM3.5-BS.F.G.05-FH-041210	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	6.43	1	
KIF-CRM3.5-BS.F.G.06-FH-041210	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	10.92	1	
KIF-CRM3.5_BS.F.G.01-FH-121510-A	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	17.8	1	
KIF-CRM3.5_BS.F.G.02-FH-121510-A	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	11	1	
KIF-CRM3.5_BS.F.G.03-FH-121510-A	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	12.1	1	
KIF-CRM3.5_BS.F.G.04-FH-121510-A	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	6.5	1	
KIF-CRM3.5_BS.F.G.05-FH-121510-A	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	9.3	1	
KIF-CRM3.5_BS.F.G.06-FH-121510-A	Largemouth Bass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.9	1	
KIF-CRM1.5_BS.F.G.01-FH-041410	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	8.494	1	
KIF-CRM1.5_BS.F.G.02-FH-041410	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	17.51	1	
KIF-CRM1.5_BS.F.G.03-FH-041410	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	12.51	1	
KIF-CRM1.5_BS.F.G.04-FH-041410	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	7.592	1	
KIF-CRM1.5_BS.F.G.05-FH-041410	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	5.606	1	
KIF-CRM1.5_BS.F.G.06-FH-041410	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	10.29	1	
KIF-CRM1.5_BS.F.G.01-FH-093010-A	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	9.581	1	
KIF-CRM1.5_BS.F.G.02-FH-093010-A	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	10.9	1	
KIF-CRM1.5_BS.F.G.03-FH-093010-A	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	13.87	1	
KIF-CRM1.5_BS.F.G.04-FH-093010-A	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	13.61	1	
KIF-CRM1.5_BS.F.G.05-FH-093010-A	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	9.703	1	
KIF-CRM1.5_BS.F.G.06-FH-093010-A	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	16.17	1	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CRM - Clinch River Mile
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ERM - Emory River Mile
ER_R - Emory River Reference Reach
LERM - Little Emory River Mile
ug/kg - micrograms per kilogram
mg/kg - milligrams per kilogram
ND - non-detect
PCB - polychlorinated biphenyl
TVA - Tennessee Valley Authority

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	32.85	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	13.77	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	45.77	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	21.78	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	107	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	54.94	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	9.7	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	15.7	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	13.2	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	15.5	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	3.9	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	3.9	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	9.7	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	3.8	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	6.9	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	53.3	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	14.7	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	17.7	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	25.6	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	9.1	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3.9	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3.8	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	5.7	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	4.1	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	74.21	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	287	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	50.75	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	120.4	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	123.5	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	90.41	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	42.94	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	25.07	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	36.11	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.1	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.8	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	24.9	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	52.17	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	81.47	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	37.04	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	59.7	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	45.75	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	19.97	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	19.88	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	23.29	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	18.18	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	149.7	1	0.05 < p < 0.1
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	50.11	1	0.05 < p < 0.1
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	39.84	1	0.05 < p < 0.1
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	123.2	1	0.05 < p < 0.1
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	13.46	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	7.877	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	20.44	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	7.38	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	23.6	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	12.8	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	12.6	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.7	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.8	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.7	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	4.9	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.7	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	10	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	30.07	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	6.282	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	3.676	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	5.494	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	26.46	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	19.68	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	37.35	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	40.6	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	19.38	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	101.2	1	p < 0.05
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	221.2	1	p < 0.05
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	58.19	1	p < 0.05
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	11.7	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	8	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	19.4	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	10.9	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	25	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.5	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	4.2	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	4.1	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.8	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	4	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.6	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	4.957	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	61.45	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	23.94	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	23.65	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	20.56	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	24.53	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.046	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.117	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	25.95	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	10.56	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.073	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	45.07	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	32.71	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	34.54	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	4	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	4	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.5	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.6	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.5	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.8	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	5.686	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	30.51	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	54.47	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	74	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	25.88	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	21.59	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	23.26	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	82.67	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	40.86	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	69.62	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	75.1	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	398	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	584	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	6.8	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	66.22	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	25.12	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	19.68	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	28.98	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	4.1	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.8	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	4	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.6	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	4.957	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	61.45	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	23.94	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	23.65	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	20.56	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	24.53	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.046	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.117	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	25.95	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	10.56	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.073	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	45.07	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	32.71	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	34.54	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	4	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	4	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.5	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.6	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.5	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	3.8	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	5.686	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	30.51	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	54.47	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	74	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	25.88	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	21.59	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	23.26	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	82.67	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	40.86	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	69.62	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	75.1	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	398	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	584	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	6.8	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	66.22	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	25.12	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	19.68	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	28.98	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	30.81	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	19.89	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	125.7	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	453.4	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	54.97	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	59.05	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	4.3	0	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	9.1	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	9	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	5.5	0	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	5.5	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	3.9	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Aluminum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	7.102	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Aluminum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	30.15	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Aluminum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	5.711	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Aluminum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	9.506	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Aluminum	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	19.96	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Aluminum	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	19.02	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Aluminum	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	20.66	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01402	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01469	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01438	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01447	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01479	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01436	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01446	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Antimony	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01462	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04725	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01496	0	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01441	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02357	0	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01468	0	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01436	0	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01426	0	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.07392	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0693	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.07412	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.028	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.057	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.048	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.056	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.014	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.014	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.017	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.014	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Antimony	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.019	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.031	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.053	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.064	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.016	0	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.013	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.014	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.014	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.016	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Antimony	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.015	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01394	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01472	0	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0145	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01443	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01404	0	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01435	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01401	0	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01449	0	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01495	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.024	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Antimony	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Antimony	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Antimony	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.101	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Antimony	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09994	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Antimony	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09842	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01439	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01427	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01456	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.0132	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01389	0	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01392	0	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0132	0	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01434	0	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01508	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01432	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01466	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01336	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.085	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.046	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.03	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.013	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.014	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.013	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.014	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.013	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Antimony	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.021	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01411	0	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01462	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.0131	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01306	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01362	0	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01416	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01352	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01457	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01406	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01469	0	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01427	0	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0138	0	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.042	0	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.029	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.07	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.039	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.09	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.013	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.015	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.015	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.014	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.014	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Antimony	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.013	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.01316	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.0149	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.01256	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01364	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0149	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0136	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01462	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01494	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01397	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0143	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01465	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01443	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01438	0	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0143	0	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Antimony	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.014	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Antimony	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.015	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Antimony	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.013	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Antimony	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.013	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Antimony	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.024	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Antimony	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.014	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0135	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01395	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01465	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0149	0	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0142	0	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0133	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01446	0	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01362	0	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01385	0	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01493	0	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01368	0	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01351	0	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01362	0	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01481	0	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.021	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01357	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01433	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01416	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Antimony	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.0149	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01329	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01443	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01368	0	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01718	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01467	0	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01436	0	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Antimony	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.016	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Antimony	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.033	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Antimony	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.032	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Antimony	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.02	0	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Antimony	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.014	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Antimony	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.014	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Antimony	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01374	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Antimony	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01463	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Antimony	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01465	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Antimony	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01513	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Antimony	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01448	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Antimony	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.0138	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Antimony	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01485	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-S	Bluegill	Carcass	Arsenate	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.005	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-S	Bluegill	Carcass	Arsenate	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.004	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-S	Bluegill	Carcass	Arsenate	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.005	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-S	Bluegill	Carcass	Arsenate	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.004	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.2628	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.1067	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.174	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.2307	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.29	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.3393	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.392	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Arsenic	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.2871	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.104	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1632	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1415	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1373	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1002	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.114	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1127	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1417	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1348	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1439	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.14	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.27	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.11	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.12	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.047	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.029	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.06	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.19	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.1	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.12	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.047	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.025	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.027	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.027	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.03	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.032	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2583	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.608	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1653	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.246	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2616	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.221	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1469	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1656	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1472	1	0.05 < p < 0.1
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.068	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.045	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.071	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.066	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.061	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.2165	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.5397	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.5654	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.4662	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.6312	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.4522	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1404	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1395	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1531	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1458	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3472	1	p < 0.05
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2552	1	p < 0.05
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.288	1	p < 0.05
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.336	1	p < 0.05
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0718	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1364	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1435	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.173	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.17	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.3	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.57	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.029	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.026	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.026	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.083	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.069	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.23	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.392	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.4354	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.4368	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.4896	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04716	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1605	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.322	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2845	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2024	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3164	1	0.05 < p < 0.1
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4014	1	0.05 < p < 0.1
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.322	1	0.05 < p < 0.1
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.34	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.26	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.14	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.089	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.56	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.1	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.031	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.044	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.026	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.037	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.059	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.2417	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.3458	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.3792	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1364	1	
KIF-CRM8.0_BG.C.G.02-FH-041310-S	Bluegill	Carcass	Arsenic	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.174	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0894	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1316	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-S	Bluegill	Carcass	Arsenic	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.184	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2062	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1029	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2082	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2158	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2198	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1376	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1415	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1562	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.029	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.033	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.045	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.036	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.025	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.049	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3	1	
KIF-CRM3.5-BG.C.G.01-FH-041210-S	Bluegill	Carcass	Arsenic	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.236	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1897	1	
KIF-CRM3.5-BG.C.G.02-FH-041210-S	Bluegill	Carcass	Arsenic	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.145	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2285	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3864	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2893	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2359	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2712	1	p < 0.05
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2724	1	p < 0.05
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2497	1	p < 0.05
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2607	1	p < 0.05
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.228	1	p < 0.05
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2977	1	p < 0.05
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2951	1	p < 0.05
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3094	1	p < 0.05
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.53	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.41	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.97	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.23	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1938	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1433	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1947	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1435	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4017	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1408	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4947	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7328	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2847	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2964	1	0.05 < p < 0.1

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.092	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.064	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.091	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.11	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.16	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.043	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Arsenic	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.3685	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Arsenic	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.45	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Arsenic	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.3588	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Arsenic	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.3841	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Arsenic	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1397	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Arsenic	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.3282	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Arsenic	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.144	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-S	Bluegill	Carcass	Arsenite	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.005	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-S	Bluegill	Carcass	Arsenite	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.003	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-S	Bluegill	Carcass	Arsenite	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.012	1	
KIF-CRM3.5-BG.C.G.02-FH-041210-S	Bluegill	Carcass	Arsenite	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.009	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	1.358	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	1.967	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	2.459	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	2.737	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Barium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	7.859	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Barium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	3.628	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Barium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	6.86	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Barium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	5.82	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	5.135	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	2.557	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	11.79	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	7.744	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.887	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	2.075	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	2.116	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	5.174	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.813	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.578	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.098	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.15	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.19	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.14	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.24	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.1	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Barium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.14	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.24	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.17	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.2	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.37	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.31	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.21	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.2	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.39	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Barium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.31	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.469	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.736	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.857	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	6.199	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	6.795	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.961	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.305	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.392	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.691	1	0.05 < p < 0.1
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.3	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	2.4	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.7	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.1	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.2	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Barium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	2.508	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Barium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	2.724	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Barium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	3.521	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Barium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	2.538	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Barium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	3.919	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Barium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	3.032	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	3.896	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	1.585	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	4.794	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	2.723	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	3.732	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	1.879	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	2.352	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	2.979	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.488	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.569	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	3.962	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	2.54	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.41	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.21	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.16	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.25	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.37	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.24	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.72	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.32	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Barium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.27	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	3.763	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	5.038	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	5.387	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	4.869	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.755	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.351	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	5.925	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.06	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	2.504	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.051	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.036	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.955	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.13	0	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.092	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.22	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.13	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.29	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.29	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.13	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.2	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.17	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.23	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Barium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.24	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.8262	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	1.889	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	3.2	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.976	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.324	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.962	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.984	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.822	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.671	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.976	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.051	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.354	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.346	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.188	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Barium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.17	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Barium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.11	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Barium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.18	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Barium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.2	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Barium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.14	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Barium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.21	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.55	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.702	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.582	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.463	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.393	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.991	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.966	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.179	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.884	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.161	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.277	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.969	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.816	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.901	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.6	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	8.1	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.2	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.9	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Barium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	3.682	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Barium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	6.997	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Barium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	3.186	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Barium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	3.919	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	5.655	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	2.675	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	3.317	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	6.527	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	2.146	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.847	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Barium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.2	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Barium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.23	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Barium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.29	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Barium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.17	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Barium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.14	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Barium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.12	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Barium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	6.399	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Barium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.55	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Barium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.9	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Barium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	3.337	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Barium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	1.626	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Barium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	2.425	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Barium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	1.643	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.02847	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.03081	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.03016	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.02933	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.029	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.02871	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.0294	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Beryllium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.02871	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0945	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02992	0	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02882	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04921	0	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03029	0	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02964	0	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0299	0	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2988	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2888	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2921	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.057	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.097	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.11	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.028	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.029	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.035	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.028	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.039	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.063	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.11	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.13	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.033	0	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.026	0	

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Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.028	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.028	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.032	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.03	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1435	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0608	0	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.29	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1476	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1436	0	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1464	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02938	0	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0299	0	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0299	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.062	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.055	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.056	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.06	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.567	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.101	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09994	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09842	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1474	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1458	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1481	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1348	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02821	0	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02784	0	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0264	0	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02912	0	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.06103	0	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05797	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1498	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05475	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.17	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.094	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.06	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.028	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.027	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.028	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.043	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02901	0	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02986	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02694	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02666	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1127	0	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3068	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.5474	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.5899	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2881	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.06102	0	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02899	0	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0276	0	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.086	0	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.059	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.14	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.081	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.18	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.026	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.031	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.03	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.028	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.029	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.026	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.02662	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.02926	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.02607	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1395	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.152	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1383	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02871	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03054	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0274	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0286	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0293	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02886	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03016	0	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0286	0	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.029	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.03	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.026	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.027	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.026	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.028	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0275	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0279	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0293	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03036	0	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02893	0	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02761	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02938	0	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02724	0	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02724	0	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03081	0	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02736	0	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02748	0	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02724	0	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03094	0	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.031	0	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.053	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0607	0	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1389	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1461	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1446	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1518	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.136	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1478	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1397	0	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.04809	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03066	0	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02964	0	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.032	0	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.067	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.066	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.041	0	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.028	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.029	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Beryllium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.02814	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Beryllium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.03	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Beryllium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.0299	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Beryllium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.03065	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Beryllium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1473	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Beryllium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1417	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Beryllium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.153	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	beta-BHC	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	beta-BHC	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	4.6	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	beta-BHC	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	6.7	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	beta-BHC	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.5	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.3942	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4266	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4176	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4301	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Boron	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.435	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Boron	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4176	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Boron	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4165	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Boron	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4176	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.355	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4352	0	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4192	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.6734	0	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4194	0	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4104	0	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.414	0	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	2.094	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	2.002	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	2.136	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	2.5	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.6	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	3	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	2.8	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.3	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	5.1	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	6	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	3.3	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Boron	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	3.5	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3.7	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	7	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	11.3	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	5.5	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	4.3	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	2	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3.1	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	4.7	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Boron	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	4.4	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.009	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.832	0	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.176	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.066	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.01	0	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.066	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4068	0	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.414	0	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.437	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.43	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.39	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.41	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.39	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Boron	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.98	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Boron	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	2.005	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Boron	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.979	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Boron	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.994	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Boron	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.999	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Boron	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.995	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	2.071	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	2.061	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	2.083	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	1.87	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3906	0	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3944	0	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.384	0	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4032	0	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.8616	0	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.8184	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	2.122	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.7665	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	2.4	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	11.5	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.7	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.3	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	6.1	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	4.5	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.1	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	2.3	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Boron	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.3	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.392	0	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.4043	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.364	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.3808	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.786	0	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	2.03	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	3.864	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.199	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	2.024	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4294	0	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4014	0	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.391	0	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	4.2	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.83	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.1	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.5	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	7.6	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.2	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.3	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.3	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.1	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.81	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Boron	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.76	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.3672	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.4256	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.3555	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.984	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.116	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.94	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4176	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4316	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3836	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.416	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4102	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4218	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4176	0	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.418	0	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Boron	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.98	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Boron	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	2.2	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Boron	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	2.2	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Boron	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.5	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Boron	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.93	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Boron	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.2	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.375	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3906	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4102	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4416	0	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4208	0	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3765	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4068	0	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3859	0	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4086	0	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4266	0	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3876	0	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3893	0	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3859	0	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4199	0	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.43	0	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	0	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.58	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.42	0	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Boron	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	1.938	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Boron	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	2.051	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Boron	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	2.036	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Boron	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	2.125	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.916	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	2.077	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.95	0	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5038	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4161	0	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4104	0	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Boron	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	4.1	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Boron	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	5.8	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Boron	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	8.9	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Boron	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	12.3	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Boron	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	4.8	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Boron	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	12	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Boron	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.402	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Boron	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.4125	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Boron	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.4186	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Boron	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.4268	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Boron	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	2.057	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Boron	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	1.977	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Boron	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	2.138	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.1489	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.04977	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.03944	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.02737	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.0319	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.04437	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.03675	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Cadmium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.04959	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02457	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01197	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02882	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01295	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.009087	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00798	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00828	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.077	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.07315	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.07412	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.094	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.11	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.34	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0073	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0074	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0091	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0073	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.01	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.15	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.2	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.22	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0084	0	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0068	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0074	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0073	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0082	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0078	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01886	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0192	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01131	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02001	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03509	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01722	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01288	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01242	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01265	1	0.05 < p < 0.1
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0088	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.007	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0071	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0076	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0072	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.101	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09994	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09842	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.05616	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.07608	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.2761	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.06875	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01367	1	0.05 < p < 0.1
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01276	1	0.05 < p < 0.1
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.00912	1	0.05 < p < 0.1
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01501	1	0.05 < p < 0.1
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02369	0	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03342	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03744	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01905	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.32	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.44	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.18	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.007	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0072	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.007	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0072	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.007	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.03881	0	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02986	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.03458	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01006	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01729	0	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03776	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07084	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07634	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03773	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01424	1	p < 0.05
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01494	1	p < 0.05
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01656	1	p < 0.05
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.16	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.28	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.15	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.18	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.19	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0067	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0079	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0078	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0072	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0076	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0068	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.03672	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.02128	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.02844	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01209	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01758	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05575	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.008091	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01029	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01151	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01196	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007618	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007548	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01021	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00858	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0076	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0077	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0067	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0069	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0067	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0072	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00975	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01256	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01201	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01684	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01105	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01305	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01288	1	p < 0.05
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01453	1	p < 0.05
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01271	1	p < 0.05
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01375	1	p < 0.05
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0114	1	p < 0.05
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0229	1	p < 0.05
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01589	1	p < 0.05
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01613	1	p < 0.05
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.021	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.033	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.016	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0156	0	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.04845	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.07587	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.07375	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.07728	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07107	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07744	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07275	0	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03893	1	p < 0.05
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01599	1	p < 0.05
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01687	1	p < 0.05
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.014	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.017	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.017	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.011	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.0071	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.0074	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Cadmium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.0134	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Cadmium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.015	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Cadmium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01316	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Cadmium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.02328	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Cadmium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.0762	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Cadmium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.0746	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Cadmium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.07875	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	22557	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	18652	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	15660	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	24946	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	30160	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	23490	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	74725	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	26361	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	49140	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	35088	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	72836	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	72261	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	14796	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	14615	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	15479	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	60984	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	41965	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	57116	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	270	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	214	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	1340	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	357	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	1030	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	167	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	639	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	159	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	195	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	103	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	177	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	320	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	254	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	1040	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	232	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	1250	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	265	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	150	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	28987	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	25344	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	49300	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	34768	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	41151	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	33866	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	13515	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	15525	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	15985	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	14600	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	32100	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	23200	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	14700	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	41100	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Calcium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	27720	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	15035	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	17296	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	16628	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	14860	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	16944	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	38961	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	23395	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	40662	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	47850	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	20789	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	11600	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	13872	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	13328	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	46311	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	45012	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	52104	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	26718	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	2000	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	755	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	425	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	154	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	190	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	272	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	179	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	275	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	418	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	42336	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	54736	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	42224	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	49504	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	26095	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	52864	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	58926	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	69400	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	37387	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	21402	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	16725	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	15111	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	438	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	254	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	234	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	1390	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	2400	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	194	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	192	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	481	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	185	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	291	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	205	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	16799	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	31122	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	50955	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	46500	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	45892	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	34342	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	32886	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	18957	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	24797	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	42380	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	32816	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	15362	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	13665	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	14124	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	514	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	274	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	259	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	247	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	197	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	1230	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	27250	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	29574	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	27601	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	28704	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	31560	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	34136	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	18396	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	19658	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	19340	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	11779	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	13908	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	11519	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	14551	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	11735	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	23400	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	37600	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	40100	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	28100	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	40052	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	55076	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	58115	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	31464	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	50058	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	39072	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	25113	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	18709	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	20520	1	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	16165	1	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	451	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	389	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	1010	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	281	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	197	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Calcium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	235	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Calcium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	45895	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Calcium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	35175	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Calcium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	40664	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Calcium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	51604	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Calcium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	35306	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Calcium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	40284	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Calcium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	24975	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4599	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4266	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4176	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.5865	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.29	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.6003	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.539	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Chromium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.3132	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.008	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.68	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.6288	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.114	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1328	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1254	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.851	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.9856	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.964	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.482	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.25	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.5	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.42	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.49	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.16	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Chromium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.17	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.27	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.47	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.56	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.21	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.11	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.12	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.12	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.15	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Chromium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.13	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.312	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.384	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.276	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	4.789	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7337	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.722	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1311	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1794	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1311	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1399	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Chromium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1825	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Chromium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.2056	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Chromium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1476	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Chromium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1841	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Chromium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1676	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.6669	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.6974	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.6526	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.5775	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.3472	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.123	0	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1152	0	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.224	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.9334	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.9548	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6552	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6351	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.75	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.41	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.26	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Chromium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.85	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	1.098	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.426	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.728	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.176	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.8122	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.7788	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.191	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.284	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6517	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4972	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4014	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1794	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.37	0	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.25	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.61	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.35	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.79	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.11	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.13	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.13	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.12	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.13	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Chromium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.11	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.173	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.474	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.086	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.426	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.8046	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.338	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1279	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1394	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1671	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1898	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1289	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1376	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1879	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1518	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Chromium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.13	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Chromium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.13	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Chromium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.13	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Chromium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.11	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Chromium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.11	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Chromium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.14	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1175	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1535	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1289	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1656	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1657	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1155	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2486	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2951	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1952	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1304	0	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1186	0	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1695	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1203	0	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.137	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.94	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.95	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.28	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.5814	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.6182	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.6195	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Chromium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.8004	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5871	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.6336	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	2.561	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.6412	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1774	1	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1619	1	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Chromium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.14	0	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Chromium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.29	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Chromium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.28	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Chromium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.5	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Chromium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.12	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Chromium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.12	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Chromium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.312	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Chromium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	1.125	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Chromium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.422	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Chromium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.483	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Chromium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.635	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Chromium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.5968	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Chromium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.6525	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.03285	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.04977	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01624	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.04301	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.0348	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.08091	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.05635	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Cobalt	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.0248	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05355	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03264	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.07074	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03367	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05126	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03648	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0437	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.07084	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1271	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1003	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.13	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.2	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.13	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.021	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.043	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.045	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.046	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.033	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.29	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.095	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.17	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.074	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.052	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.024	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.033	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.031	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.04	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0861	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.384	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1421	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1837	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1404	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1119	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0565	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0529	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0552	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.024	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.022	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.019	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.034	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.101	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09994	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09842	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.0702	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.06974	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.07028	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.06325	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1215	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0464	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0432	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0896	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04667	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04433	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.07176	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03285	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.22	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.24	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.35	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.048	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.037	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.03	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.046	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.039	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.058	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02783	0	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.05287	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02148	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01986	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04978	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.06844	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.132	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1423	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0686	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1085	1	0.05 < p < 0.1
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1918	1	0.05 < p < 0.1
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0598	1	0.05 < p < 0.1
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.19	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.27	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.37	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.23	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.2	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.058	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.033	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.033	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.048	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.063	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.033	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.02876	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.04788	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.04266	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0682	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.07152	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0669	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04437	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0498	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0548	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.052	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03516	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05328	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03712	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0374	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.036	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.036	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.03	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.041	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.068	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.035	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0275	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03906	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0252	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0552	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05523	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04016	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.07006	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.08172	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0454	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03081	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02736	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.06183	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04767	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05746	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.088	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.23	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.43	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.06783	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.07025	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.06785	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.07176	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07107	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0704	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1339	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3206	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.05694	1	0.05 < p < 0.1

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.06156	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.043	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.057	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.048	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.08	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.057	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.037	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Cobalt	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01876	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Cobalt	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.04875	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Cobalt	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.02093	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Cobalt	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.0388	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Cobalt	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.07112	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Cobalt	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.08579	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Cobalt	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.072	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.438	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4503	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.3712	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.3871	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Copper	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.377	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Copper	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4437	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Copper	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4165	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Copper	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.3654	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4725	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3536	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.7074	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3626	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3495	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.342	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.391	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.7392	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.693	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.7412	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	2	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.7	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.7	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.8	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.79	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.1	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.79	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.72	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Copper	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.75	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.9	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.8	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.9	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.2	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.1	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.2	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.92	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Copper	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.85	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.697	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.768	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	1.45	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7216	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7337	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7175	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.452	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.391	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.506	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.36	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.3	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.34	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.31	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.33	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Copper	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.5016	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Copper	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.6168	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Copper	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.4883	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Copper	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.4921	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Copper	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.4997	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Copper	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.5054	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.7371	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.7291	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.7279	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.66	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.5208	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.6032	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.408	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.6272	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3554	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.341	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.7488	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.5475	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	2.6	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	2.4	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.9	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.2	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.2	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.1	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.2	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.98	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Copper	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.2	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.5096	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.426	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.22	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.176	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.524	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.708	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.352	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.457	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.686	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.565	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6467	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.667	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.9	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.8	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.1	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.9	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.1	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.1	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.2	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.95	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Copper	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.173	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.474	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.086	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.682	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.745	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.669	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2506	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3652	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3014	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2366	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2666	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.333	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4176	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.462	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Copper	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.1	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Copper	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.91	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Copper	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.3	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Copper	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Copper	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.99	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Copper	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.1	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.425	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3348	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4102	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.414	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3419	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3012	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4972	1	p < 0.05
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5902	1	p < 0.05
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.454	1	p < 0.05
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6162	1	p < 0.05
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6612	1	p < 0.05
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.107	1	p < 0.05
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.8626	1	p < 0.05
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.127	1	p < 0.05
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.2	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.2	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.67	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Copper	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.6783	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Copper	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.7868	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Copper	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.708	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Copper	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.7452	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.6798	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.704	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.873	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.397	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.657	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5016	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Copper	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.2	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Copper	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.2	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Copper	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.2	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Copper	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.1	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Copper	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.2	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Copper	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.3	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Copper	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.312	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Copper	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.475	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Copper	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.7176	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Copper	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.7372	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Copper	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.7112	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Copper	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.6714	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Copper	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.7425	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	delta-BHC	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	delta-BHC	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	4.6	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	delta-BHC	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	6.7	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	delta-BHC	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.5	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Dieldrin	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Dieldrin	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	9.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Dieldrin	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	13.4	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Dieldrin	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	9.1	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Endosulfan I	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Endosulfan I	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	4.6	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Endosulfan I	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	6.7	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Endosulfan I	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.5	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Endosulfan II	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Endosulfan II	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	9.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Endosulfan II	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	13.4	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Endosulfan II	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	9.1	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Endosulfan Sulfate	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Endosulfan Sulfate	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	9.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Endosulfan Sulfate	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	13.4	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Endosulfan Sulfate	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	9.1	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Endrin	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Endrin	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	9.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Endrin	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	13.4	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Endrin	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	9.1	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Endrin aldehyde	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Endrin aldehyde	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	9.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Endrin aldehyde	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	13.4	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Endrin aldehyde	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	9.1	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Endrin Ketone	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Endrin Ketone	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	9.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Endrin Ketone	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	13.4	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Endrin Ketone	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	9.1	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	gamma-BHC (Lindane)	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	gamma-BHC (Lindane)	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	4.6	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	gamma-BHC (Lindane)	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	6.7	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	gamma-BHC (Lindane)	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.5	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	gamma-Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	6.5	1	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	gamma-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	6.7	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	gamma-Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.5	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Heptachlor	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Heptachlor	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	4.6	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Heptachlor	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	6.7	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Heptachlor	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.5	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Heptachlor Epoxide	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	2.5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Heptachlor Epoxide	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	4.6	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Heptachlor Epoxide	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	6.7	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Heptachlor Epoxide	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	4.5	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-S	Bluegill	Carcass	Inorganic Arsenic	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.005	1	
KIF-CRM8.0_BG.C.G.05-FH-041310-S	Bluegill	Carcass	Inorganic Arsenic	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.004	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-S	Bluegill	Carcass	Inorganic Arsenic	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.015	1	
KIF-CRM3.5-BG.C.G.02-FH-041210-S	Bluegill	Carcass	Inorganic Arsenic	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.01	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	17.59	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	18.68	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	16.73	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	14.23	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	32.19	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	64.99	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	70.07	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	17.1	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	39.06	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	26.03	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	60	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	27.97	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	51.03	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	28.27	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	69.69	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	60.68	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	147.5	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	80.66	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	199	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	123	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	153	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	153	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	12	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	13.4	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	23.9	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	19.1	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	20.1	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	137	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	84.8	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	158	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	52.9	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	22.4	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	13.6	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	16.9	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	29	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	14.9	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	81.18	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	944	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	121.2	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	171.9	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	142.9	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	151	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	53.11	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	37.49	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	46.46	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	14.8	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	13.7	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	12.5	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	12.1	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	15.8	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Iron	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	27.19	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	67.85	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	87.89	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	49.99	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	79.16	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	63.04	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	60.02	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	59.91	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	60.99	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	54.73	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	122.4	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	38.74	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	34.56	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	94.08	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	25.52	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	23.7	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	61.46	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	22.12	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	131	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	90.6	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	160	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	16.1	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	13.4	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	15.3	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	13.9	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	18.5	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	48.2	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	44.3	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	29.7	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	29.63	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	11.83	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	41.13	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	59.24	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	112.4	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	121.8	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	58.31	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	93.11	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	238.6	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	65.09	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	95.3	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	137	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	73.2	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	103	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	107	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	15.6	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	12.5	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	14.3	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	15.6	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	12.1	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Iron	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	20.3	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	17.38	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	67.3	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	28.91	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	57.35	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	61.98	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	56.64	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	16.18	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	25.03	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	38.63	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	35.1	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	16.17	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	65.05	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	38.98	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	51.92	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	14.1	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	13.4	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	16.5	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	10.9	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	13.8	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	13.3	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	14.03	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	24.36	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	14.91	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	24.51	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	43.13	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	13.91	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	55.6	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	80.13	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	34.05	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	23.34	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	25.08	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	67.56	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	39.04	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	56.58	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	75.4	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	395	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	576	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	20.2	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	56.53	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	59.85	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	59.3	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	61.55	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	55.93	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	59.84	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	132.4	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	451.1	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	55.63	1	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	57.23	1	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	16.4	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	27.4	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	27.1	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	30.5	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	18.8	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Iron	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	21.5	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Iron	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	12.56	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Iron	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	65.63	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Iron	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	17.13	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Iron	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	35.54	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Iron	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	60.2	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Iron	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	57.44	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Iron	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	62.33	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.05694	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.1469	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.07656	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.06647	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Lead	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.1131	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Lead	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.261	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Lead	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.1789	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Lead	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.0783	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2489	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1061	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1913	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1735	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05359	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0456	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0759	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1786	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2195	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.157	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.054	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.11	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.092	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.11	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.033	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Lead	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.037	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.059	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.1	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.12	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.031	0	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.025	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.027	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.027	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.03	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Lead	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.029	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1927	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.352	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2059	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2066	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4147	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1148	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2102	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0414	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0506	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.052	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.054	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.064	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Lead	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Lead	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Lead	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1131	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Lead	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.101	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Lead	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09994	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Lead	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09842	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.09828	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.05072	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1004	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.11	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1953	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.05568	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0504	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1254	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1508	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1739	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2402	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09636	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.16	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.089	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.057	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.026	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.026	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.025	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.026	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.026	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Lead	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.04	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.09016	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.1275	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.1092	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.1306	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1231	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1959	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1707	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2082	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1887	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1672	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1873	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0851	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.081	0	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.056	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.14	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.076	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.17	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.024	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.029	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.028	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.026	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.028	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Lead	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.025	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.1071	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.1889	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.1446	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1457	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.149	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09366	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.07569	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03984	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.07672	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1612	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05274	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0666	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05104	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0572	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Lead	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.028	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Lead	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.028	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Lead	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.024	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Lead	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.025	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Lead	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.024	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Lead	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.026	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.045	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1758	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.06446	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0966	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0789	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1004	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09266	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1135	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09988	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04029	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04104	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1397	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.07037	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09724	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.51	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.65	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.086	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Lead	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.2455	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Lead	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1883	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Lead	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1564	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Lead	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1076	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2534	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1162	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2241	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4809	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0876	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09804	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Lead	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.03	0	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Lead	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.063	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Lead	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.063	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Lead	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.038	0	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Lead	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.14	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Lead	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.14	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Lead	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.04355	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Lead	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.0975	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Lead	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.08671	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Lead	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.08924	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Lead	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1067	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Lead	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1119	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Lead	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.03825	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	545.3	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	462.2	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	714.6	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	1118	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	1282	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	1248	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	1740	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	1188	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	1074	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	767	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	1381	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	924.6	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	440.4	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	410.4	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	441.6	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	1297	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	970.2	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	1195	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	619	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	436	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	473	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	595	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	320	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	340	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	319	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	338	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	378	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	382	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	405	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	415	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	326	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	371	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	315	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	323	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	324	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	338	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	619.1	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	579.2	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	890.3	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	754.4	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	835.8	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	743.3	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	438.4	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	450.8	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	453.1	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	458	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	706	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	493	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	476	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	852	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Magnesium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	609.8	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	442	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	488.3	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	484.3	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	441.8	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	484.1	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	895.1	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	586.5	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	906.1	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	1001	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	464.4	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	387.4	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	448.8	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	432.3	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	868.8	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	818.4	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	1023	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	619.8	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	532	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	557	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	605	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	364	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	386	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	385	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	374	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	334	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	351	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	960.4	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	1169	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	899.1	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	1017	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	565.9	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1053	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1140	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1048	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	799.2	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	562.7	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	477.2	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	414	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	421	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	640	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	489	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	526	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	589	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	370	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	403	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	362	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	365	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	350	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	362	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	452.9	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	688.9	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	1057	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	976.5	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1040	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	724.8	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	712.5	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	438.2	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	569.9	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	845	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	618.2	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	488.4	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	424.6	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	426.8	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	367	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	312	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	422	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	343	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	350	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	381	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	560	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	630.5	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	606.5	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	626.5	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	657.5	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	695.3	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	504	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	563	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	517.6	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	395.8	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	437.8	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	396.2	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	438.1	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	404.4	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	640	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	820	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	830	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	585	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	839.8	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	1090	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	1133	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	761.8	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	1156	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	756.8	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	660.6	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	565.6	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	530	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	499.3	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	323	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	348	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	386	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	389	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	346	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Magnesium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	316	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	961.5	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	765	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	909	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	1180	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	825.5	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	865.4	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Magnesium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	569.3	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	14.72	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	17.09	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	21.69	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	34.99	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	61.77	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	19.58	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	69.83	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Manganese	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	41.5	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	40.01	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	21.6	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	96.42	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	58.02	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	30.99	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	28.73	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	33.12	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	153.7	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	78.93	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	65.84	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	8	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	19.5	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	12.2	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	16.6	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	2.3	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	5.7	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	4.7	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	2	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Manganese	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	4.5	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	7.5	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	14.1	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	16.8	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3.2	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	2.9	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3.5	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.7	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	8.3	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Manganese	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3.7	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	35.1	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	74.88	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	49.3	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	72.82	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	77.2	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	51.09	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	26.22	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	34.5	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	38.87	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	14.3	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	18.3	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	17.7	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	15.7	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	39.5	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	40.66	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Manganese	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	72.47	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Manganese	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	76.07	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Manganese	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	66.82	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Manganese	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	90.47	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Manganese	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	65.7	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	33.27	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	13.79	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	21.79	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	19.11	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	18.99	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	20.56	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	27.36	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	27.78	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	18.09	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	17.39	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	32.45	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	9.811	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	21.7	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	11.4	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	8	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	2.2	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.1	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	6.1	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.2	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	2	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Manganese	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	6.1	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	30.5	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	34.52	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	16.74	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	21.71	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	13.62	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	30.92	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	38.32	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	30.08	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	24.63	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	19.8	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	36.57	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	17.02	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.2	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.8	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	5	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.2	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.5	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	4.4	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.6	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.8	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Manganese	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.9	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	13.95	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	24.34	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	43.85	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	27.31	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	22.83	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	30.55	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	26.62	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	13.74	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	28.77	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	23.74	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	14.18	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	15.36	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	13.11	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	13.29	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Manganese	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.88	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Manganese	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	7.1	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Manganese	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.5	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Manganese	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.85	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Manganese	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	4.6	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Manganese	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.6	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	9.4	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	15.68	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	13.19	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	16.26	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	16.02	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	15.36	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	15.87	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	16.84	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	13.85	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	12.28	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	13.11	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	21.96	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	21.07	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	19.54	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	62.5	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	88.6	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	69.9	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	14.3	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	20.19	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	43.27	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	26.82	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Manganese	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	19.43	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	54.08	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	32.03	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	32.3	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	36.64	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	15.15	1	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	11.65	1	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Manganese	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	5	0	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Manganese	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	10.8	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Manganese	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	8.3	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Manganese	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	5.1	0	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Manganese	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	2.1	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Manganese	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.9	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Manganese	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	22.68	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Manganese	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	20.21	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Manganese	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	30.2	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Manganese	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	20.84	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Manganese	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	35.31	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Manganese	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	15.82	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Manganese	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	15.57	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.0219	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.03318	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.07888	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.02893	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.0174	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.02036	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01936	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Mercury	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.02062	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0441	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03808	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0262	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03367	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03495	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03192	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0322	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0308	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02195	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0157	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.076	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.045	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.069	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.062	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.014	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.011	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Mercury	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.015	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.049	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.06	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.094	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.014	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.01	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.011	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.011	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.012	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Mercury	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.012	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02337	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02496	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01827	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01935	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01882	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02526	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02938	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0299	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0299	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.053	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.022	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.019	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.017	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.0264	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Mercury	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.02493	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Mercury	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.02287	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Mercury	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.02176	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Mercury	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.02183	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Mercury	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.02926	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.02808	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.02568	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.02134	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.02228	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02604	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02088	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02016	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01725	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03446	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03274	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03432	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04161	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.09	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.12	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.027	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.013	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Mercury	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.017	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01882	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02208	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.0182	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.02312	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0655	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03776	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02673	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0347	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0343	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02486	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0223	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01633	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.052	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.057	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.056	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.076	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.085	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.01	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.012	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.012	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.011	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.011	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Mercury	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.01	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.0306	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.0266	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.0237	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0372	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03874	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06021	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04437	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0498	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04384	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0598	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03516	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05106	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03944	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.033	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Mercury	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.014	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Mercury	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.012	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Mercury	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.01	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Mercury	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.01	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Mercury	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.01	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Mercury	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.011	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03069	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0293	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03588	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0263	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0251	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03164	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0227	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02951	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01849	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.004104	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01901	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02225	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02122	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.032	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.041	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.034	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.031	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.02972	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.02248	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01918	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Mercury	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.0276	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02966	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02147	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0291	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03664	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02847	1	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0342	1	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Mercury	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.013	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Mercury	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.026	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Mercury	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.026	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Mercury	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.016	0	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Mercury	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.011	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Mercury	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.011	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Mercury	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01106	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Mercury	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01238	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Mercury	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01166	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Mercury	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01203	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Mercury	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01676	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Mercury	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.02014	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Mercury	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01193	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Methoxychlor	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	25	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Methoxychlor	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	46.1	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Methoxychlor	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	66.8	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Methoxychlor	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	45.5	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.2409	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.0948	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.058	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.08602	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.1421	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.154	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.1054	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.1436	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.126	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1414	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1965	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1243	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03495	0	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0342	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0414	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2033	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1694	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1788	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.12	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.15	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.14	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.14	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.034	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.034	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.042	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.037	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.046	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.15	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.16	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.16	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.057	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.045	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.038	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.034	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.054	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.039	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0615	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1856	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1015	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1476	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1212	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09471	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0339	0	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0345	0	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0368	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.037	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.068	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.035	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.065	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.157	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.131	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.036	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.184	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.037	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1755	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1744	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1782	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.1595	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.05642	1	p < 0.05
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.04872	1	p < 0.05
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0528	1	p < 0.05
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.06048	1	p < 0.05
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1221	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.09548	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.181	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.08322	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.21	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.26	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.24	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.045	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.045	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.036	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.038	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.045	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.15	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.09016	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.1306	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.1165	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.1496	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.07336	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1723	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.322	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.347	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1715	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.08136	1	p < 0.05
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.06913	1	p < 0.05
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0506	1	p < 0.05
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.2	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.2	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.17	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.15	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.29	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.052	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.047	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.079	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.033	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.053	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.036	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.06426	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.1091	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.06162	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0868	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09238	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1004	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05481	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0664	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04658	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0572	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.05567	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03552	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0348	0	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0352	0	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.036	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.036	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.039	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.032	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.041	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.041	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.095	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1395	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.06739	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.08556	0	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1131	0	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1983	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.07006	0	p < 0.05
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.07718	0	p < 0.05
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.06129	0	p < 0.05
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03555	0	p < 0.05
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04332	1	p < 0.05
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04351	1	p < 0.05
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.06356	1	p < 0.05
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05083	1	p < 0.05
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.61	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.094	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.2	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.11	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1647	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1742	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1741	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.1794	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2379	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.176	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.195	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1122	0	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.08322	0	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07752	0	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.071	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.08	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.1	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.058	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.071	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.048	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Molybdenum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.1039	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Molybdenum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.0975	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Molybdenum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.1346	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Molybdenum	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.097	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Molybdenum	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1753	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Molybdenum	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1679	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Molybdenum	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.1823	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.2628	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.2607	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.348	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.4692	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.522	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.522	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.7105	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Nickel	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4698	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.315	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1578	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4978	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1735	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1002	0	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.09576	0	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1127	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4928	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5005	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4796	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.19	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.38	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.32	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

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Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.38	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.094	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.095	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.12	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.093	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Nickel	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.13	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.21	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.36	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.43	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.12	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.087	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.094	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.094	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.11	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Nickel	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.1	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.492	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.768	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.986	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6232	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4785	0	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4879	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1085	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0989	0	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1012	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.1	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.089	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.091	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.098	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.093	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Nickel	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1928	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Nickel	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1696	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Nickel	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1269	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Nickel	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.2236	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Nickel	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1224	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.4914	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.4755	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.502	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.44	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2062	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.5104	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.0888	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1814	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.201	0	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3308	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4992	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1796	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.58	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.31	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.2	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.09	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.092	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.089	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.092	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.09	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Nickel	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.24	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.4704	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.426	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.546	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.176	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2096	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.472	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.9016	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.9716	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4802	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.165	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2899	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1242	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.28	0	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.2	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.47	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.27	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.61	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.086	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.1	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.1	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.092	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.097	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Nickel	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.087	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.173	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.474	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	2.086	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.899	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.9238	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4683	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09918	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0996	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09316	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0962	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09962	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09768	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09744	0	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1628	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Nickel	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.097	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Nickel	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.099	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Nickel	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.085	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Nickel	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.088	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Nickel	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.086	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Nickel	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.092	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09207	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09962	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1104	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1236	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09036	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1107	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1476	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09307	0	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1019	0	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0912	0	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4122	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.09988	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1171	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.5	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.49	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.8	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.1	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.4522	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.4777	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.472	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Nickel	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.4968	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4635	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4928	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.873	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5954	1	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1205	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1117	1	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Nickel	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.11	0	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Nickel	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.22	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Nickel	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.22	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Nickel	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.27	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Nickel	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.091	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Nickel	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.095	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Nickel	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.312	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Nickel	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.475	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Nickel	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.422	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Nickel	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	2.483	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Nickel	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.4826	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Nickel	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.4476	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Nickel	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.495	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-S	Bluegill	Carcass	Organic Arsenic	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.174	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-S	Bluegill	Carcass	Organic Arsenic	Speciation	CR_R	CRM8.0	Spring 2010	mg/kg	0.184	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-S	Bluegill	Carcass	Organic Arsenic	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.221	1	
KIF-CRM3.5-BG.C.G.02-FH-041210-S	Bluegill	Carcass	Organic Arsenic	Speciation	CR_B	CRM3.5	Spring 2010	mg/kg	0.145	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	PCB-1016	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	PCB-1016	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	92.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	PCB-1016	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	134	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	PCB-1016	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	91	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	PCB-1221	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	PCB-1221	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	92.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	PCB-1221	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	134	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	PCB-1221	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	91	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	PCB-1232	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	PCB-1232	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	92.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	PCB-1232	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	134	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	PCB-1232	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	91	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	PCB-1242	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	PCB-1242	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	92.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	PCB-1242	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	134	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	PCB-1242	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	91	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	PCB-1248	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	PCB-1248	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	92.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	PCB-1248	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	134	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	PCB-1248	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	91	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	PCB-1254	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	PCB-1254	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	92.2	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	PCB-1254	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	134	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	PCB-1254	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	91	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	PCB-1260	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	50	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	PCB-1260	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	222	1	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	PCB-1260	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	157	1	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	PCB-1260	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	307	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	3460	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	2441	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	3294	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	3531	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	3741	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	3654	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	3553	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	3210	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	3339	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	2706	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	3589	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	2875	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	2633	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	2599	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	2645	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	2652	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	2221	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	2228	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3380	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3690	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3670	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3780	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	4280	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3460	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3110	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3430	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	3340	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3040	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3390	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3210	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3330	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3400	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3250	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3260	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3360	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	3190	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	3497	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	1670	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	7279	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	3575	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	3509	0	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	3616	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	2531	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	2691	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	2622	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	2450	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	2510	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	2610	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	2530	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	2630	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Potassium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	2368	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	2465	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	2596	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	2590	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	2583	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	2599	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	2152	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	2431	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	2038	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	2131	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	2517	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	2691	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	2688	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	2598	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	2804	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	2609	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	2181	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	2606	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	4260	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	3210	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	2610	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	3290	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	3380	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	3240	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	3190	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	3130	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	3350	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	2474	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	2535	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	2344	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	2366	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2450	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2478	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2299	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2540	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2524	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2644	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2743	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	2645	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	2810	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3690	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3500	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3160	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	4520	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3410	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3540	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3370	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3300	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3230	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	3220	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	2056	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	2375	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	2773	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2691	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2307	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2408	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2174	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2271	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2156	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1903	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2326	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2686	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2622	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2706	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	3250	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	3130	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	3400	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	3390	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	3460	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	3330	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2483	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2140	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2447	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2186	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2341	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2430	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2780	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2838	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2838	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2773	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2690	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2588	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2701	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	2608	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	2300	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	2180	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	2060	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	2140	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	2358	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	2226	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	2165	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	2354	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	2531	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	2256	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	2604	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	2931	1	p < 0.05
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	2847	1	p < 0.05
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	2873	1	p < 0.05
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	3310	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	3430	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	3660	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	3580	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	3060	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Potassium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	3270	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Potassium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	2472	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Potassium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	2531	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Potassium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	2527	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Potassium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	2805	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Potassium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	2510	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Potassium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	2835	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Potassium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	2086	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.7227	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.5451	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.2784	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.6256	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.464	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4698	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.49	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Selenium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4959	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5985	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.816	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.524	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5698	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3728	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3648	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.368	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5544	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5005	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.654	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.9	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.4	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.8	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.9	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.9	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	1.2	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.87	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.91	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Selenium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.98	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.7	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	2	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	3	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.1	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.3	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.1	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.2	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.2	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Selenium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.533	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.64	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.638	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.6232	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5423	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7175	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4294	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.414	1	0.05 < p < 0.1
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.437	1	0.05 < p < 0.1

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.71	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.54	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.48	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.66	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.63	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.082	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Selenium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.285	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Selenium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.259	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Selenium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.476	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Selenium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.315	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Selenium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	1.33	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.6318	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.7608	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.7279	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.605	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.9114	1	p < 0.05
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.6032	1	p < 0.05
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.576	1	p < 0.05
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.8064	1	p < 0.05
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.8616	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.7502	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.9048	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	1.183	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.9	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	3.9	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	2.4	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.7	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.8	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.6	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.7	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.7	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Selenium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.6	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.8624	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.9952	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.8008	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.7888	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6026	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6136	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.256	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.353	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6517	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.9266	1	0.05 < p < 0.1

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.026	1	0.05 < p < 0.1
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.713	1	0.05 < p < 0.1
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.1	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.8	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2.3	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	2	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	3.9	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.4	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.4	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.2	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.2	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.6	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Selenium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.2	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.6732	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.6118	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.5688	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.558	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5364	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.6244	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4959	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5312	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5206	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.546	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5274	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.6216	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.58	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.528	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Selenium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.9	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Selenium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Selenium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.99	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Selenium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.85	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Selenium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.2	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Selenium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.77	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.925	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6696	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7032	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.8556	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7364	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.9287	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.904	1	p < 0.05
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.9307	1	p < 0.05
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.908	1	p < 0.05

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6636	1	p < 0.05
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6612	1	p < 0.05
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6412	1	p < 0.05
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.681	1	p < 0.05
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7072	1	p < 0.05
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.3	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.61	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.93	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.8398	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.7587	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.7965	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Selenium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.7452	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7107	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.88	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7857	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.916	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7665	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.798	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Selenium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	2.1	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Selenium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	2	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Selenium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.9	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Selenium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.7	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Selenium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.9	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Selenium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.6	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Selenium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.603	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Selenium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.6375	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Selenium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.4485	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Selenium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.3647	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Selenium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.7112	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Selenium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.746	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Selenium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.405	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.002847	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.005451	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.002784	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.002893	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Silver	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.0029	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Silver	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.002871	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Silver	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.00294	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Silver	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.002871	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00945	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002992	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002882	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.004662	0	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.003029	0	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002964	0	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00276	0	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01448	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01386	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01482	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0056	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0096	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.011	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0028	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0028	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0034	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0034	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Silver	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.0038	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0062	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.011	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.013	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0038	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0026	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0028	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0034	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0053	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Silver	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.0065	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002788	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002912	0	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0029	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002854	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002807	0	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00287	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002712	0	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00299	0	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.00299	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.003	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0027	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0027	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Silver	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.05016	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Silver	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.04883	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Silver	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.04883	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Silver	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.04921	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Silver	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.04997	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Silver	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.05054	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01439	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01427	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01456	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.0132	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002821	0	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002784	0	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.00264	0	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.002912	0	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.006103	0	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.005797	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01466	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.005256	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.017	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0093	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0059	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0027	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0027	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0026	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.003	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0027	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Silver	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.0042	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.002862	0	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.002923	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.002657	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.002611	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.005502	0	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01416	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02705	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02915	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01406	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002938	0	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002899	0	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.00276	0	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0084	0	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0058	0	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.014	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0079	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.018	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0025	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.005	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0029	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.003	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0029	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Silver	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.0026	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.002632	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.002926	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.002607	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002759	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00298	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002676	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002871	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002988	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00274	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00286	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00293	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002886	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002784	0	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00286	0	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Silver	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0029	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Silver	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0029	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Silver	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0025	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Silver	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0047	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Silver	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0025	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Silver	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.0027	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00275	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002762	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00293	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.003036	0	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002893	0	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002761	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002938	0	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002724	0	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002724	0	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.003081	0	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002736	0	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002748	0	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002724	0	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002873	0	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0028	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Silver	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01357	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Silver	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01433	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Silver	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01416	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Silver	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.0149	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01329	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01443	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01368	0	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002977	0	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002847	0	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002964	0	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Silver	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.0031	0	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Silver	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.0066	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Silver	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.0065	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Silver	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.004	0	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Silver	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.0027	0	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Silver	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.0028	0	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Silver	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.002747	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Silver	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.002963	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Silver	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.00293	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Silver	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.002988	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Silver	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01448	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Silver	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.0138	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Silver	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01485	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	1240	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	1628	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	1768	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Fall 2009	mg/kg	1384	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	1868	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	2383	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	1656	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Fall 2009	mg/kg	1942	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	1981	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	1708	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	2196	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	1953	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	813.2	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	820.8	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2010	mg/kg	772.8	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	2156	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	1790	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2010	mg/kg	2027	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	711	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	1310	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	962	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	950	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	1150	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	885	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	817	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	736	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	ERM8.0	Spring 2011	mg/kg	779	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	979	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	802	1	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	1410	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	793	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	840	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	747	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	740	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	789	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_R	LERM2.0	Spring 2011	mg/kg	888	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	1415	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	1341	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	1720	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	1410	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	1550	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	1581	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	802.3	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	874	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Spring 2010	mg/kg	853.3	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	1340	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	1350	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	1210	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	1160	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_C	ERM4.5	Fall 2010	mg/kg	1400	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Sodium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	1199	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	925.2	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	984.3	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	922	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	917.9	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	EEMBAY	Spring 2009	mg/kg	978.9	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	1706	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	1721	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	1905	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Fall 2009	mg/kg	1898	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	833.3	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	863	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	861.6	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_B	ERM2.0	Spring 2010	mg/kg	763.8	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	1809	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	1831	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	1629	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2010	mg/kg	1380	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	1740	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	1020	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	1210	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	712	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	717	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	699	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	765	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	755	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_B	ERM3.0	Spring 2011	mg/kg	767	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	1889	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	2193	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	1980	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Fall 2009	mg/kg	1803	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1617	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1772	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1742	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1902	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1561	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	1078	1	0.05 < p < 0.1
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	956.7	1	0.05 < p < 0.1
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2010	mg/kg	862.5	1	0.05 < p < 0.1
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	851	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	726	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	1370	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	1040	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	1260	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	731	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	728	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	811	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	729	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	765	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	ER_A	ERM0.9	Spring 2011	mg/kg	835	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	1196	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	1612	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Fall 2009	mg/kg	2038	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1739	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1845	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1476	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1676	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1298	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1567	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	2236	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	1635	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	954.6	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	872.3	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2010	mg/kg	888.8	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	717	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	731	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	744	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	737	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	731	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_R	CRM8.0	Spring 2011	mg/kg	752	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1545	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1705	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1570	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1678	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1612	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1611	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1064	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1056	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	1071	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	798.7	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	832.2	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	796.9	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	853.5	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Spring 2010	mg/kg	846.4	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	1490	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	1490	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	1560	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_B	CRM3.5	Fall 2010	mg/kg	1510	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	1596	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	1953	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	1979	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Fall 2009	mg/kg	1579	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	1993	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	1637	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	1577	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	1076	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	1093	1	0.05 < p < 0.1
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2010	mg/kg	1056	1	0.05 < p < 0.1
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	819	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	964	1	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	912	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	705	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	712	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Sodium	Inorganic-cation/anion	CR_A	CRM1.5	Spring 2011	mg/kg	794	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Sodium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	2104	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Sodium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	1969	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Sodium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	2027	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Sodium	Inorganic-cation/anion	Positive control	CRM25.0	Fall 2009	mg/kg	2506	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Sodium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	1661	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Sodium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	1846	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Sodium	Inorganic-cation/anion	Positive control	CRM25.0	Spring 2010	mg/kg	1276	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	21.79	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	19.53	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	30.62	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	25.85	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	46.69	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	21.14	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	60.27	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Strontium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	47.5	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	39.38	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	38.35	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	68.12	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	72.52	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	12.98	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	13.77	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	13.36	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	52.36	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	37.27	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	48.4	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.16	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.17	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.56	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.71	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.23	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.56	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.17	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Strontium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.22	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.095	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.16	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.27	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.31	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.91	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.37	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	1.1	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.46	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Strontium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.23	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	30.83	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	28.58	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	47.56	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	41.33	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	45.94	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	37.6	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	14.4	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	16.08	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	15.76	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	13.6	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	28.6	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	22.2	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	15	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	38	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	36.17	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Strontium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	21.05	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Strontium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	23.18	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Strontium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	25.15	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Strontium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	23.7	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Strontium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	22.69	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	39.31	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	25.04	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	42.42	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	47.03	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	23.87	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	13.8	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	16.39	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	15.14	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	46.67	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	42.28	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	56.78	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	28.03	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	1.9	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.68	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.39	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.36	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.4	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.54	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.49	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.39	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Strontium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.68	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	53.31	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	58.47	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	48.41	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	46.51	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	19.7	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	45.55	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	54.74	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	64.2	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	32.21	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	20.07	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	17.91	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	15.59	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.36	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.19	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.21	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.3	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	1.4	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.39	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.35	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.56	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.32	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.41	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Strontium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.45	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	14.81	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	24.05	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	38.39	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	33.17	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	38.44	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	26.76	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	27.67	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	9.628	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	18.17	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	26.26	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	27.19	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	13.68	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	12.41	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	11.73	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Strontium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.58	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Strontium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.35	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Strontium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.3	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Strontium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.29	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Strontium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.25	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Strontium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	1.1	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	23.78	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	27.9	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	24.96	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	25.42	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	33.14	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	33.89	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	18.24	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	18.59	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	18.98	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	10.26	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	11.97	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	10.95	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	14.62	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	11.56	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	29.9	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	33.3	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	39	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	25	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	43.28	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	54.8	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	58.41	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Strontium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	34.78	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	51.6	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	39.07	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	25.14	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	19.58	1	$p < 0.05$
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	20.83	1	$p < 0.05$
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	15.87	1	$p < 0.05$
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Strontium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.55	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Strontium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.57	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Strontium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	1.1	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Strontium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.41	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Strontium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.34	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Strontium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.32	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Strontium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	44.89	1	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Strontium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	33.11	1	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Strontium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	32.29	1	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Strontium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	39.19	1	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Strontium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	22.96	1	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Strontium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	30.18	1	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Strontium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	19.91	1	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.03285	0	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01422	0	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01253	0	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.01329	0	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01421	0	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01383	0	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01348	0	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Thallium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.01227	0	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0441	0	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01414	0	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01362	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.02253	0	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01398	0	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01368	0	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01357	0	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01571	0	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01348	0	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01395	0	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.027	0	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.054	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.046	0	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.053	0	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.013	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.013	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.016	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.013	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Thallium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.018	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.029	0	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.051	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.061	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.015	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.012	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.013	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.013	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.015	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Thallium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.014	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01353	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01568	0	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01392	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01607	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0201	0	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01808	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01333	0	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01587	0	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01426	0	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1003	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Thallium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Thallium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.1002	0	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Thallium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.101	0	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Thallium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09994	0	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Thallium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.09842	0	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01369	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01363	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01406	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.01265	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.03255	0	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01346	0	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.01416	0	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.02218	0	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03267	0	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01364	0	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01435	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03066	0	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.081	0	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.055	0	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.093	0	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.033	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.037	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.021	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.028	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.02	0	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Thallium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.022	0	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01372	0	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.014	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01274	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.01251	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0131	0	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01345	0	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02737	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02082	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01338	0	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04068	0	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03568	0	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02139	0	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.046	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.058	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.067	0	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.038	0	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.086	0	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.02	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.021	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.014	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.013	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.026	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Thallium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.017	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.01255	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.0141	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.01185	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01302	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0143	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01293	0	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0167	0	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01428	0	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0137	0	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01352	0	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01406	0	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01376	0	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01694	0	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01364	0	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Thallium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.015	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Thallium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.014	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Thallium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.012	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Thallium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.012	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Thallium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.012	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Thallium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.013	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0165	0	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01311	0	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01612	0	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01656	0	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01368	0	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03012	0	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02486	0	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02497	0	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02724	0	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01872	0	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03876	0	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02519	0	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02497	0	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02431	0	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.025	0	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.035	0	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.025	0	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01292	0	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01377	0	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01357	0	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Thallium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.01408	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0309	0	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02042	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03783	0	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.06183	0	
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03504	0	
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02508	0	
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Thallium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.038	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Thallium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.031	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Thallium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.047	1	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Thallium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.045	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Thallium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.031	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Thallium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.018	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Thallium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01307	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Thallium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01425	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Thallium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01405	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Thallium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.01436	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Thallium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01372	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Thallium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.01753	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Thallium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.02025	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Total Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	5	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Total Chlordane	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	11.1	1	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Total Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	13.4	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Total Chlordane	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	9	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Total DDx	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	15	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Total DDx	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	30.6	1	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Total DDx	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	40.2	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Total DDx	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	27.3	0	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Total PCBs	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	350	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Total PCBs	PCB	CR_R	CRM8.0	Spring 2010	ug/kg	775.2	1	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Total PCBs	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	961	1	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Total PCBs	PCB	CR_B	CRM3.5	Spring 2010	ug/kg	853	1	
KIF-CRM8.0_BG.C.G.02-FH-041310-P	Bluegill	Carcass	Toxaphene	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	75	0	
KIF-CRM8.0_BG.C.G.05-FH-041310-P	Bluegill	Carcass	Toxaphene	Pesticides	CR_R	CRM8.0	Spring 2010	ug/kg	138	0	
KIF-CRM3.5-BG.C.G.01-FH-041210-P	Bluegill	Carcass	Toxaphene	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	200	0	
KIF-CRM3.5-BG.C.G.02-FH-041210-P	Bluegill	Carcass	Toxaphene	Pesticides	CR_B	CRM3.5	Spring 2010	ug/kg	136	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.3942	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.128	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.07424	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	0.08993	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.1566	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.4176	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.04655	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Vanadium	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	0.05481	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1985	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2448	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2279	0	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1787	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.07922	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.04788	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0828	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2526	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.539	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.436	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	0	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.21	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.18	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.044	0	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.044	0	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.054	0	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.044	0	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	0.06	0	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.17	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.17	0	
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.2	0	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.068	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.041	0	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.044	0	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.044	0	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.049	0	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	0.047	0	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2214	0	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.992	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.464	0	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2263	0	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.5104	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2296	0	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.104	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0828	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0897	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.067	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	0	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.046	0	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.067	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.198	0	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.2827	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.3598	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.2227	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.3156	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	0.25	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.4563	0	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.4438	0	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.4518	0	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	0.4125	0	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.4774	1	$p < 0.05$
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.1995	1	$p < 0.05$
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.2256	1	$p < 0.05$
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	0.448	1	$p < 0.05$

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2836	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1296	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.234	0	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1599	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.58	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.84	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.38	1	
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.042	0	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.043	0	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.042	0	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.043	0	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.067	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	0.15	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.1529	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.622	0	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.6916	0	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	0.6256	0	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1729	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3068	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4186	0	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4511	0	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2332	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3842	1	p < 0.05
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6244	1	p < 0.05
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.23	1	p < 0.05
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.29	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.2	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.24	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.32	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.4	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.04	0	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.047	0	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.047	0	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.043	0	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.045	0	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	0.041	0	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.3978	0	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.5586	0	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	0.4503	0	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.217	0	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2354	0	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2141	0	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1148	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1262	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.137	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1586	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06739	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1221	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06496	1	
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1034	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.045	0	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.046	0	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.04	0	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.041	0	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.04	0	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	0.043	0	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.145	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1088	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1201	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1656	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3419	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2761	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2486	1	0.05 < p < 0.1
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2724	1	0.05 < p < 0.1
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.193	1	0.05 < p < 0.1
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0948	1	0.05 < p < 0.1
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1026	1	0.05 < p < 0.1
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.229	1	0.05 < p < 0.1
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.193	1	0.05 < p < 0.1
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2873	1	0.05 < p < 0.1
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.5	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.1	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.7	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.35	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.2519	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.2529	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.5015	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	0.4692	0	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4635	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4506	0	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5238	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.305	1	p < 0.05
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2628	1	p < 0.05
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2736	1	p < 0.05

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_BG.O.G.17038V-FH-050311	Bluegill	Ovary	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.077	1	
KIF-CRM1.5_BG.O.G.17039V-FH-050311	Bluegill	Ovary	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.1	0	
KIF-CRM1.5_BG.O.G.17041V-FH-050311	Bluegill	Ovary	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.1	0	
KIF-CRM1.5_BG.O.G.17044V-FH-050311	Bluegill	Ovary	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.12	1	
KIF-CRM1.5_BG.O.G.17046V-FH-050311	Bluegill	Ovary	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.07	1	
KIF-CRM1.5_BG.O.G.17049V-FH-050311	Bluegill	Ovary	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2011	mg/kg	0.053	1	
KIF-CRM25.0_BG.C.G.01-FH-101909	Bluegill	Carcass	Vanadium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.3685	0	
KIF-CRM25.0_BG.C.G.02-FH-101909	Bluegill	Carcass	Vanadium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.5625	0	
KIF-CRM25.0_BG.C.G.03-FH-101909	Bluegill	Carcass	Vanadium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.4784	0	
KIF-CRM25.0_BG.C.G.04-FH-101909	Bluegill	Carcass	Vanadium	Inorganic	Positive control	CRM25.0	Fall 2009	mg/kg	0.5432	0	
KIF-CRM25.0_BG.C.G.01-FH-051710	Bluegill	Carcass	Vanadium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.4572	0	
KIF-CRM25.0_BG.C.G.02-FH-051710	Bluegill	Carcass	Vanadium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.4476	0	
KIF-CRM25.0_BG.C.G.03-FH-051710	Bluegill	Carcass	Vanadium	Inorganic	Positive control	CRM25.0	Spring 2010	mg/kg	0.4725	0	
KIF-ERM8.0_BG.C.G.01-FH-102009	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	22.34	1	
KIF-ERM8.0_BG.C.G.02-FH-102009	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	31.28	1	
KIF-ERM8.0_BG.C.G.03-FH-102009	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	51.97	1	
KIF-ERM8.0_BG.C.G.04-FH-102009	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Fall 2009	mg/kg	27.57	1	
KIF-LERM2.0_BG.C.G.01-FH-111709	Bluegill	Carcass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	41.76	1	
KIF-LERM2.0_BG.C.G.02-FH-111709	Bluegill	Carcass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	23.57	1	
KIF-LERM2.0_BG.C.G.03-FH-111709	Bluegill	Carcass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	49.25	1	
KIF-LERM2.0_BG.C.G.04-FH-111709	Bluegill	Carcass	Zinc	Inorganic	ER_R	LERM2.0	Fall 2009	mg/kg	45.41	1	
KIF-ERM8.0_BG.C.G.01-FH-051110	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	58.59	1	
KIF-ERM8.0_BG.C.G.02-FH-051110	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	42.98	1	
KIF-ERM8.0_BG.C.G.03-FH-051110	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	77.03	1	
KIF-ERM8.0_BG.C.G.04-FH-051110	Bluegill	Carcass	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	58.02	1	
KIF-ERM8.0-BG.W.C.01-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	34.95	1	
KIF-ERM8.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	33.06	1	
KIF-ERM8.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	32.2	1	
KIF-LERM2.0_BG.C.G.01-FH-051310	Bluegill	Carcass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	60.68	1	
KIF-LERM2.0_BG.C.G.02-FH-051310	Bluegill	Carcass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	54.29	1	
KIF-LERM2.0_BG.C.G.03-FH-051310	Bluegill	Carcass	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	61.48	1	
KIF-ERM8.0_BG.L.G.17130H-FH-042511	Bluegill	Liver	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	28.3	1	
KIF-ERM8.0_BG.L.G.17134H-FH-042511	Bluegill	Liver	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	45	1	
KIF-ERM8.0_BG.L.G.17135H-FH-042511	Bluegill	Liver	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	41.8	1	
KIF-ERM8.0_BG.L.G.17138H-FH-042511	Bluegill	Liver	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	37.2	1	
KIF-ERM8.0_BG.O.G.17130V-FH-042511	Bluegill	Ovary	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	28	1	
KIF-ERM8.0_BG.O.G.17133V-FH-042511	Bluegill	Ovary	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	31.8	1	
KIF-ERM8.0_BG.O.G.17134V-FH-042511	Bluegill	Ovary	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	35.8	1	
KIF-ERM8.0_BG.O.G.17135V-FH-042511	Bluegill	Ovary	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	36.8	1	
KIF-ERM8.0_BG.O.G.17138V-FH-042511	Bluegill	Ovary	Zinc	Inorganic	ER_R	ERM8.0	Spring 2011	mg/kg	33.2	1	
KIF-LERM2.0_BG.L.G.17071H-FH-042511	Bluegill	Liver	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	26.7	1	
KIF-LERM2.0_BG.L.G.17079H-FH-050211	Bluegill	Liver	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	27.1	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_BG.L.G.17080H-FH-050211	Bluegill	Liver	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	31.6	1	
KIF-LERM2.0_BG.O.G.17071V-FH-042511	Bluegill	Ovary	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	43.2	1	
KIF-LERM2.0_BG.O.G.17075V-FH-050211	Bluegill	Ovary	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	32.3	1	
KIF-LERM2.0_BG.O.G.17079V-FH-050211	Bluegill	Ovary	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	38.6	1	
KIF-LERM2.0_BG.O.G.17080V-FH-050211	Bluegill	Ovary	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	26.4	1	
KIF-LERM2.0_BG.O.G.17082V-FH-050211	Bluegill	Ovary	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	37.1	1	
KIF-LERM2.0_BG.O.G.17083V-FH-050211	Bluegill	Ovary	Zinc	Inorganic	ER_R	LERM2.0	Spring 2011	mg/kg	24.7	1	
KIF-ERM4.5_BG.C.G.01-FH-042110	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	42.64	1	
KIF-ERM4.5_BG.C.G.02-FH-042110	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	33.6	1	
KIF-ERM4.5_BG.C.G.03-FH-042110	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	45.53	1	
KIF-ERM4.5_BG.C.G.04-FH-042110	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	43.62	1	
KIF-ERM4.5_BG.C.G.05-FH-042110	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	49.45	1	
KIF-ERM4.5_BG.C.G.06-FH-042110	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	52.52	1	
KIF-ERM4.5-BG.W.C.01-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	35.48	1	
KIF-ERM4.5-BG.W.C.02-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	30.82	1	
KIF-ERM4.5-BG.W.C.03-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	35.88	1	
KIF-ERM4.5_BG.C.G.01-FH-010411-A	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	30.6	1	
KIF-ERM4.5_BG.C.G.02-FH-010411-A	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	36.7	1	
KIF-ERM4.5_BG.C.G.03-FH-010411-A	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	43.7	1	
KIF-ERM4.5_BG.C.G.04-FH-010411-A	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	37.1	1	
KIF-ERM4.5_BG.C.G.05-FH-010411-A	Bluegill	Carcass	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	34.3	1	
KIF-EEMBAY_BG.G.C.01-FH-063009	Bluegill	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	26.66	1	
KIF-EEMBAY_BG.W.C.01-FH-063009	Bluegill	Whole Body	Zinc	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	24.42	1	
KIF-EEMBAY_BG.W.C.02-FH-063009	Bluegill	Whole Body	Zinc	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	24.85	1	
KIF-EEMBAY_BG.W.C.03-FH-063009	Bluegill	Whole Body	Zinc	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	23.78	1	
KIF-EEMBAY_BG.W.C.04-FH-063009	Bluegill	Whole Body	Zinc	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	27.35	1	
KIF-EEMBAY_BG.W.C.05-FH-063009	Bluegill	Whole Body	Zinc	Inorganic	ER_B	EEMBAY	Spring 2009	mg/kg	22.9	1	
KIF-ERM3.0_BG.C.G.01-FH-101309	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	44.23	1	
KIF-ERM3.0_BG.C.G.02-FH-101309	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	39.31	1	
KIF-ERM3.0_BG.C.G.03-FH-101309	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	48.44	1	
KIF-ERM3.0_BG.C.G.04-FH-101309	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Fall 2009	mg/kg	48.13	1	
KIF-ERM2.0-BG.W.C.01-FH-041510	Bluegill	Whole Body	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	32.33	1	
KIF-ERM2.0-BG.W.C.02-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	26.68	1	
KIF-ERM2.0-BG.W.C.03-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	32.4	1	
KIF-ERM2.0-BG.W.C.04-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_B	ERM2.0	Spring 2010	mg/kg	32.03	1	
KIF-ERM3.0_BG.C.G.01-FH-050510	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	54.57	1	
KIF-ERM3.0_BG.C.G.02-FH-050510	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	48.42	1	
KIF-ERM3.0_BG.C.G.03-FH-050510	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	43.99	1	
KIF-ERM3.0_BG.C.G.04-FH-050510	Bluegill	Carcass	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	51.9	1	
KIF-ERM3.0_BG.L.G.17101H-FH-042911	Bluegill	Liver	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	54.6	1	
KIF-ERM3.0_BG.L.G.17109H-FH-042911	Bluegill	Liver	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	35.2	1	
KIF-ERM3.0_BG.L.G.17110H-FH-042911	Bluegill	Liver	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	25.9	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_BG.O.G.17101V-FH-042911	Bluegill	Ovary	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	33.2	1	
KIF-ERM3.0_BG.O.G.17102V-FH-042911	Bluegill	Ovary	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	38.5	1	
KIF-ERM3.0_BG.O.G.17105V-FH-042911	Bluegill	Ovary	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	30.7	1	
KIF-ERM3.0_BG.O.G.17106V-FH-042911	Bluegill	Ovary	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	38.6	1	
KIF-ERM3.0_BG.O.G.17109V-FH-042911	Bluegill	Ovary	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	31.6	1	
KIF-ERM3.0_BG.O.G.17110V-FH-042911	Bluegill	Ovary	Zinc	Inorganic	ER_B	ERM3.0	Spring 2011	mg/kg	51.5	1	
KIF-ERM0.9_BG.C.G.01-FH-093009	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	2.548	1	
KIF-ERM0.9_BG.C.G.02-FH-093009	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	55.67	1	
KIF-ERM0.9_BG.C.G.03-FH-093009	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	46.96	1	
KIF-ERM0.9_BG.C.G.04-FH-093009	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Fall 2009	mg/kg	48.69	1	
KIF-ERM0.9_BG.C.G.01-FH-051010	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	51.88	1	
KIF-ERM0.9_BG.C.G.02-FH-051010	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	54.52	1	
KIF-ERM0.9_BG.C.G.03-FH-051010	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	53.45	1	
KIF-ERM0.9_BG.C.G.04-FH-051010	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	50.66	1	
KIF-ERM0.9_BG.C.G.05-FH-051010	Bluegill	Carcass	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	52.14	1	
KIF-ERM0.9-BG.W.C.01-FH-041210	Bluegill	Whole Body	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	44.75	1	
KIF-ERM0.9-BG.W.C.02-FH-042010	Bluegill	Whole Body	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	37.69	1	
KIF-ERM0.9-BG.W.C.03-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	35.88	1	
KIF-ERM0.9_BG.L.G.17012H-FH-042611	Bluegill	Liver	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	27.1	1	
KIF-ERM0.9_BG.L.G.17014H-FH-042611	Bluegill	Liver	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	29	1	
KIF-ERM0.9_BG.L.G.17015H-FH-042611	Bluegill	Liver	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	33	1	
KIF-ERM0.9_BG.L.G.17017H-FH-042611	Bluegill	Liver	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	34.4	1	
KIF-ERM0.9_BG.L.G.17025H-FH-042611	Bluegill	Liver	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	36.4	1	
KIF-ERM0.9_BG.O.G.17012V-FH-042611	Bluegill	Ovary	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	36.4	1	
KIF-ERM0.9_BG.O.G.17014V-FH-042611	Bluegill	Ovary	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	33.1	1	
KIF-ERM0.9_BG.O.G.17015V-FH-042611	Bluegill	Ovary	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	33.7	1	
KIF-ERM0.9_BG.O.G.17017V-FH-042611	Bluegill	Ovary	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	40	1	
KIF-ERM0.9_BG.O.G.17019V-FH-042611	Bluegill	Ovary	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	36.7	1	
KIF-ERM0.9_BG.O.G.17025V-FH-042611	Bluegill	Ovary	Zinc	Inorganic	ER_A	ERM0.9	Spring 2011	mg/kg	32.2	1	
KIF-CRM8.0_BG.C.G.01-FH-100709	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	34.27	1	
KIF-CRM8.0_BG.C.G.02-FH-100709	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	36.71	1	
KIF-CRM8.0_BG.C.G.03-FH-100709	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Fall 2009	mg/kg	62.09	1	
KIF-CRM8.0_BG.C.G.01-FH-050610	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	57.97	1	
KIF-CRM8.0_BG.C.G.02-FH-050610	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	58.41	1	
KIF-CRM8.0_BG.C.G.03-FH-050610	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	46.61	1	
KIF-CRM8.0-BG.C.G.01-FH-041310	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	39.15	1	
KIF-CRM8.0-BG.C.G.02-FH-041310	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	22.94	1	
KIF-CRM8.0-BG.C.G.03-FH-041310	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	31.24	1	
KIF-CRM8.0-BG.C.G.04-FH-041310	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	37.7	1	
KIF-CRM8.0-BG.C.G.05-FH-041310	Bluegill	Carcass	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	32.23	1	
KIF-CRM8.0-BG.W.C.01-FH-041310	Bluegill	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	32.86	1	
KIF-CRM8.0-BG.W.C.02-FH-052010	Bluegill	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	29	1	

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Appendix B-1. TVA Bluegill Non-Fillet Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0-BG.W.C.03-FH-052010	Bluegill	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	33.44	1	
KIF-CRM8.0_BG.O.G.17407V-FH-050611	Bluegill	Ovary	Zinc	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	40	1	
KIF-CRM8.0_BG.O.G.17412V-FH-050611	Bluegill	Ovary	Zinc	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	28.7	1	
KIF-CRM8.0_BG.O.G.17417V-FH-050611	Bluegill	Ovary	Zinc	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	30.4	1	
KIF-CRM8.0_BG.O.G.17419V-FH-050611	Bluegill	Ovary	Zinc	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	28.7	1	
KIF-CRM8.0_BG.O.G.17420V-FH-050611	Bluegill	Ovary	Zinc	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	36.3	1	
KIF-CRM8.0_BG.O.G.17424V-FH-050611	Bluegill	Ovary	Zinc	Inorganic	CR_R	CRM8.0	Spring 2011	mg/kg	33.5	1	
KIF-CRM3.5-BG.C.G.01-FH-041210	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	36	1	
KIF-CRM3.5-BG.C.G.02-FH-041210	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	37.94	1	
KIF-CRM3.5-BG.C.G.03-FH-041210	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	36.04	1	
KIF-CRM3.5-BG.C.G.04-FH-041210	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	44.44	1	
KIF-CRM3.5-BG.C.G.05-FH-041210	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	42.87	1	
KIF-CRM3.5-BG.C.G.06-FH-041210	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	38.15	1	
KIF-CRM3.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	47.91	1	
KIF-CRM3.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	43.81	1	
KIF-CRM3.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	43.81	1	
KIF-CRM3.5-BG.W.C.04-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	28.68	1	
KIF-CRM3.5-BG.W.C.05-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	33.74	1	
KIF-CRM3.5-BG.W.C.06-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	30.23	1	
KIF-CRM3.5-BG.W.C.07-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	33.14	1	
KIF-CRM3.5-BG.W.C.08-FH-061710	Bluegill	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	27.18	1	
KIF-CRM3.5_BG.C.G.01-FH-121510-A	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	38	1	
KIF-CRM3.5_BG.C.G.02-FH-121510-A	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	43	1	
KIF-CRM3.5_BG.C.G.03-FH-121510-A	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	38.6	1	
KIF-CRM3.5_BG.C.G.07-FH-122110-A	Bluegill	Carcass	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	34	1	
KIF-CRM1.5_BG.C.G.01-FH-101609	Bluegill	Carcass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	46.84	1	
KIF-CRM1.5_BG.C.G.02-FH-101609	Bluegill	Carcass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	50.86	1	
KIF-CRM1.5_BG.C.G.03-FH-101609	Bluegill	Carcass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	45.73	1	
KIF-CRM1.5_BG.C.G.04-FH-101609	Bluegill	Carcass	Zinc	Inorganic	CR_A	CRM1.5	Fall 2009	mg/kg	45.82	1	
KIF-CRM1.5_BG.C.G.01-FH-051210	Bluegill	Carcass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	67.05	1	
KIF-CRM1.5_BG.C.G.02-FH-051210	Bluegill	Carcass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	41.89	1	
KIF-CRM1.5_BG.C.G.03-FH-051210	Bluegill	Carcass	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	46.27	1	
KIF-CRM1.5-BG.W.C.01-FH-041210	Bluegill	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	46.49	1	$p < 0.05$
KIF-CRM1.5-BG.W.C.02-FH-041210	Bluegill	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	44.46	1	$p < 0.05$
KIF-CRM1.5-BG.W.C.03-FH-041210	Bluegill	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	39.44	1	$p < 0.05$

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CRM - Clinch River Mile
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ERM - Emory River Mile
ER_R - Emory River Reference Reach
mg/kg - milligrams per kilogram
ND - non-detect
TVA - Tennessee Valley Authority

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0-BG.W.C.01-FH-061710	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	429.2	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	357.5	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	326.2	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	423.6	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	272.5	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	161	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	122.6	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	127.2	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	88.62	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	5.8	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.5	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.1	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	375.7	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	200	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	595.7	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	9.7	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	75.6	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	9.5	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	423.6	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	360.4	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	360.7	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	93.28	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	138.7	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	78.07	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	23.8	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	40.3	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	44.3	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	405.6	1	p < 0.05
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	360.5	1	p < 0.05
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	227	1	p < 0.05
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	132	1	p < 0.05
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	140	1	p < 0.05
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	147	1	p < 0.05
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	101	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	244.4	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	178.3	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	527	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	661	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	359	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01456	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0145	0	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01445	0	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01419	0	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01439	0	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01414	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0138	0	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01243	0	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01237	0	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02144	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01427	0	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0276	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01419	0	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01357	0	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01404	0	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01463	0	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01419	0	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01372	0	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.015	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02184	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01749	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01409	0	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01489	0	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01549	1	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01481	0	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.023	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	1	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3514	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.325	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3029	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.301	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2616	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2964	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.357	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2886	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2519	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.37	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.4	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.37	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.7735	1	p < 0.05
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.446	1	p < 0.05
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.989	1	p < 0.05
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.48	1	p < 0.05
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.43	1	p < 0.05
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.45	1	p < 0.05
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4515	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.424	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.432	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4028	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.387	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4431	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.44	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.44	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.43	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.806	1	p < 0.05
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.6725	1	p < 0.05
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4617	1	p < 0.05
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.6	1	p < 0.05
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.63	1	p < 0.05
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.59	1	p < 0.05
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3664	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.484	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5525	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.1	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.79	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	10.64	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	9.75	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	7.083	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	7.375	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	5.69	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	4.355	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.737	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.308	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.824	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	2.7	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	2.7	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	2.3	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	8.398	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	6.244	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	9.982	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Barium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	2.9	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	3.3	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	3.4	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	6.73	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	6.36	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	6.912	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.558	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.784	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.693	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	2.5	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.4	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	2.8	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	6.682	1	p < 0.05
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	5.272	1	p < 0.05
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	5.346	1	p < 0.05
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.7	1	p < 0.05
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4	1	p < 0.05
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	4.2	1	p < 0.05
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.145	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	6.147	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.729	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	9.1	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	9.3	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	6.8	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06024	0	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06	0	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06058	0	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02795	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02834	0	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02964	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02856	0	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02442	0	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05038	0	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.057	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.054	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.061	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03536	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02899	0	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0575	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.062	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.06	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.058	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0301	0	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02756	0	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02808	0	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02968	0	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02795	0	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02743	0	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.029	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0338	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0269	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02916	0	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1239	0	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1193	0	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.06144	0	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.058	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.035	1	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4267	0	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.425	0	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4194	0	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.892	0	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.918	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.892	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4046	0	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3552	0	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7099	0	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.37	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.42	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4862	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4014	0	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.506	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Boron	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.43	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.41	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4085	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.823	0	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.858	0	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.424	0	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4085	0	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4009	0	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.43	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.41	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.416	0	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3766	0	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4131	0	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.38	0	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.41	0	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.37	0	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.8473	0	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.8228	0	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4199	0	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.43	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.51	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.39	0	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.07279	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.0165	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01654	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02365	0	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02115	0	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01505	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01404	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01021	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01145	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.016	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02431	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01873	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0253	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.012	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01591	0	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01505	0	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01685	0	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01293	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01355	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01245	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.009	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02444	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01587	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01239	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.011	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.012	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01557	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02178	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01923	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.016	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.01	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.632	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.15	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.445	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.419	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.6758	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5928	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4284	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.444	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3435	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.11	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.8177	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.669	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.92	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.269	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.742	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.8856	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.212	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.43	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1836	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.13	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.12	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.13	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.092	1	p < 0.05
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.103	1	p < 0.05
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5589	1	p < 0.05
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.25	1	p < 0.05
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.28	1	p < 0.05
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.27	1	p < 0.05
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2519	0	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3872	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3757	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.87	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.6	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3765	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.325	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3029	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4515	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2616	0	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1847	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1357	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1443	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1122	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.05	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.048	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.045	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3315	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2096	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.506	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.058	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.073	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.046	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3655	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3392	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.324	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1081	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.129	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09495	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.073	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.078	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.083	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.416	1	p < 0.05
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3497	1	p < 0.05
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.192	1	p < 0.05
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	1	p < 0.05
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	1	p < 0.05
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	p < 0.05
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1076	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1791	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1525	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.41	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.44	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.28	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	2.962	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	9.375	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	1.188	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.484	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.286	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.14	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.9996	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.9324	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.9847	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.7	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1.2	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	2.011	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	1.271	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	1.679	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Copper	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	1.6	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	1.4	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	1.7	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.29	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.187	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.188	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	2.099	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	1.011	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.844	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	1.3	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	1.6	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	2.2	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.054	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	2.152	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.239	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.6	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2.1	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.7	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.237	1	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.549	1	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.238	1	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.2	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	2.9	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	2.3	1	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.753	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.925	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5825	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.516	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3488	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2029	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.169	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1576	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1511	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.045	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.05	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.442	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2899	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.644	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Lead	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.032	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.092	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.033	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.43	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3604	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3672	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1802	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2365	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1203	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.06	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.089	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.832	1	p < 0.05
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7801	1	p < 0.05
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2916	1	p < 0.05
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	1	p < 0.05
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.19	1	p < 0.05
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	p < 0.05
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1718	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3146	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2652	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.64	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.69	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.39	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	45.18	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	47.5	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	43.8	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	95.25	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	55.15	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	46.74	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	34.99	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	33.3	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	35.04	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	26.6	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	26	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	21.6	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	48.18	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	36.57	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	46.46	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	27.9	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	25	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	32.4	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	31.39	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	30.53	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	32.18	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	43.04	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	38.92	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	37.56	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	27.5	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	34.5	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	28.3	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	60.58	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	48.42	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	32.81	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	29.3	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	30.3	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	33.8	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	32.29	1	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	33.88	1	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	33.59	1	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	70.9	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	61.7	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	52.1	1	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01983	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.014	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01328	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01656	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01395	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01368	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01404	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.0131	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01282	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.011	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.01	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.012	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01768	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02052	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0207	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.012	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.012	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.011	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01505	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02014	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01318	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02332	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0215	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01393	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.012	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0286	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02125	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02138	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.012	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.011	0	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.01	0	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01374	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02662	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.021	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.032	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.03	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.019	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06777	0	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.055	0	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05359	0	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04515	0	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04796	0	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0342	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03332	0	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03108	0	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02977	0	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.05525	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03568	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0598	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.035	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0344	0	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03392	0	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03456	0	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03604	0	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0344	0	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03376	0	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.036	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.034	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.035	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0494	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.04035	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03402	0	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.032	0	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.035	0	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.032	0	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03664	0	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0363	0	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03536	0	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.035	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.039	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.033	0	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.087	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	8	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5359	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.8815	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5886	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.456	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1999	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.222	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1695	0	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.19	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.088	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.1	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	1.437	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4683	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.966	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.1	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.098	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.094	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.516	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4452	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4536	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.9328	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2795	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1287	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.093	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.097	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.598	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.533	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3402	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.23	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.32	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.25	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2748	1	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3388	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2873	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	2.7	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.89	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.5	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4769	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.475	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.5126	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4945	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5668	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.5016	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.476	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3996	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.458	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.65	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.71	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.59	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6188	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4906	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.575	1	0.05 < p < 0.1

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.73	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.81	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.68	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.43	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.4028	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.5832	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.6784	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.6235	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.7385	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.61	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.54	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.63	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.494	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5649	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3888	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.7	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.71	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.72	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.458	1	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.605	1	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.5525	1	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.69	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.74	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.74	1	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.003765	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.00375	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002796	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01978	0	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0109	0	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.007752	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002856	0	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002442	0	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002748	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.005083	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.004237	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.00506	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Silver	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.003	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.003225	0	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002756	0	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002808	0	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002968	0	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002795	0	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002743	0	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.003	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0032	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0029	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00364	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002556	0	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.002916	0	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0033	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0035	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0031	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.003435	1	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.003388	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002873	0	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0041	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0083	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0033	1	0.05 < p < 0.1
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	5.873	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	11.53	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	7.433	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	5.268	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	6.082	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	6.224	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	7.354	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	6.771	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	7.649	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.1	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.5	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	6.3	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	10.52	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	8.34	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	9.476	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	9.3	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	8.4	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	9.8	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	10.58	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	10.09	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	11.36	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	11.64	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	8.88	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	8.461	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	7.7	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	13	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	7.9	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	8.086	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	7.882	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	8.068	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.9	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	8.7	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	9.2	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	8.542	1	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	9.728	1	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	8.265	1	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	10.1	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	8.8	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	9.9	1	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01381	0	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.014	0	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01375	0	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01355	0	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01439	0	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01345	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.02071	0	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01177	0	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01191	0	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.012	0	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.04199	0	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02453	0	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.046	0	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.023	0	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.026	0	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.013	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04515	0	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03392	0	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.04104	0	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01399	0	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01527	0	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01308	0	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.013	0	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0416	0	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02206	0	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.02163	0	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0246	0	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0267	0	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0243	0	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0229	0	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03388	0	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02431	0	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.034	0	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.031	0	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.028	0	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.9538	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.775	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.7922	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.645	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3924	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1961	0	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.238	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.222	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.158	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.058	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.064	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.047	0	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.9945	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.5352	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	1.449	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.069	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.16	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.075	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6665	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.5936	1	
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.5832	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2544	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3225	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.211	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.087	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.13	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.12	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.988	1	p < 0.05
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.7801	1	p < 0.05
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.5346	1	p < 0.05
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	1	p < 0.05
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.43	1	p < 0.05
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.44	1	p < 0.05
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2519	1	p < 0.05
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.6534	1	p < 0.05
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4862	1	p < 0.05
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.3	1	p < 0.05
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.5	1	p < 0.05
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.85	1	p < 0.05
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	18.05	1	
KIF-ERM8.0_GZ.W.C.01-FH-051110	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	22.88	1	
KIF-ERM8.0_GZ.W.C.02-FH-051110	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	16.19	1	
KIF-ERM8.0_GZ.W.C.03-FH-051110	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	15.24	1	
KIF-LERM2.0_GZ.W.C.01-FH-042610	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	16.37	1	
KIF-LERM2.0_GZ.W.C.02-FH-042610	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	16.55	1	
KIF-LERM2.0_GZ.W.C.03-FH-042610	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	17.8	1	
KIF-ERM4.5_GZ.W.C.01-FH-051910	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	16.41	1	
KIF-ERM4.5_GZ.W.C.02-FH-051910	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	16.99	1	
KIF-ERM4.5_GZ.W.C.03-FH-051910	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	21.2	1	
KIF-ERM4.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	21.5	1	
KIF-ERM4.5_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	20.9	1	
KIF-ERM4.5_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	30.72	1	
KIF-ERM3.0_GZ.W.C.01-FH-042110	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	18.29	1	
KIF-ERM3.0_GZ.W.C.02-FH-042110	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	17.18	1	
KIF-ERM3.0_GZ.W.C.03-FH-042110	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	24.1	1	
KIF-ERM2.5_GZ.W.C.04-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	22.7	1	
KIF-ERM2.5_GZ.W.C.05-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	24.5	1	
KIF-ERM2.5_GZ.W.C.06-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	19.67	1	
KIF-ERM0.9_GZ.W.C.01-FH-040710	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	18.57	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_GZ.W.C.02-FH-040710	Gizzard Shad	Whole Body	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	18.75	1	
KIF-ERM0.9_GZ.W.C.03-FH-040710	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	20.22	1	
KIF-CRM8.0_GZ.W.C.01-FH-041310	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	18.47	1	
KIF-CRM8.0_GZ.W.C.02-FH-041310	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	17.41	1	
KIF-CRM8.0_GZ.W.C.03-FH-041310	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	25.5	1	
KIF-CRM8.0_GZ.W.C.07-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	23.8	1	
KIF-CRM8.0_GZ.W.C.08-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	23.8	1	
KIF-CRM8.0_GZ.W.C.09-FH-122010-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	18.28	1	
KIF-CRM3.5_GZ.W.C.01-FH-061510	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	17.86	1	
KIF-CRM3.5_GZ.W.C.02-FH-061510	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	12.2	1	
KIF-CRM3.5_GZ.W.C.03-FH-061510	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	23.8	1	
KIF-CRM3.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	23.6	1	
KIF-CRM3.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	23.9	1	
KIF-CRM3.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	19.56	1	
KIF-CRM1.5_GZ.W.C.01-FH-041210	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	19.17	1	
KIF-CRM1.5_GZ.W.C.02-FH-041210	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	16.29	1	
KIF-CRM1.5_GZ.W.C.03-FH-041210	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	28.4	1	
KIF-CRM1.5_GZ.W.C.07-FH-122110-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	25.3	1	
KIF-CRM1.5_GZ.W.C.08-FH-122110-A	Gizzard Shad	Whole Body	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	26.5	1	
KIF-CRM1.5_GZ.W.C.09-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	127.1	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	34.22	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	91.58	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	11.54	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	9.968	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	11.44	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.8	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.9	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	3.6	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	15.52	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	38.45	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	21.75	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.1	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.6	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.7	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	8.1	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	9.2	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	133.1	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	58.83	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	109.1	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	4.1	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	3.9	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	3.8	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	59.3	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	47.96	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	63.43	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	4.8	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.8	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	6.1	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	3.774	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	19.82	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	7.19	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	8.6	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	7.2	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	5.2	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	14.1	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	6	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	9.3	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	49.41	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	53.75	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	48.68	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	13.6	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.3	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	48.3	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	8.6	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	12.1	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	10.6	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	11.91	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	34.43	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	144.8	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	29.7	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	11.9	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	26.9	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	5.9	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	6.1	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Aluminum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	7.2	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01397	0	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01494	0	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01398	0	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0135	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01463	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01462	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.014	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01258	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01491	0	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01386	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01316	0	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01487	0	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01338	0	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.015	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01286	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01408	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01484	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.015	0	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01356	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01446	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01299	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.015	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.015	0	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01485	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01375	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0143	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01491	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01485	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0147	0	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.015	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Antimony	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1924	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1567	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1832	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2892	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2138	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.2552	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.25	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.2	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.2	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.219	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1561	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2294	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.34	1	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.38	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.21	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4237	1	p < 0.05
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1887	1	p < 0.05
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.209	1	p < 0.05
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.34	1	p < 0.05
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.37	1	p < 0.05
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.35	1	p < 0.05
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3052	1	p < 0.05
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.286	1	p < 0.05
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2795	1	p < 0.05
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.32	1	p < 0.05
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.28	1	p < 0.05
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.35	1	p < 0.05

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2486	1	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2712	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3136	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.34	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.38	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.35	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.3	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.27	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.24	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3584	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.325	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.3575	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.22	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.18	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.27	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.25	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.42	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1957	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2475	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3856	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.38	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.28	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.32	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.41	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.34	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Arsenic	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.24	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	5.153	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	3.037	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	4.266	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.543	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	2.948	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	3.364	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	2.6	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	2.4	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	2.1	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	2.796	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.518	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	3.896	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	2.8	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	4.4	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	3.3	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	5.107	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	4.151	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	5.246	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	3	1	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	3	1	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	3.3	1	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	5.276	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	5.214	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	4.386	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	3.3	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	2.4	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	2.6	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04294	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.249	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	4.099	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	2.8	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.2	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	2.8	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.8	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.3	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	3.5	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	4.147	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	3.25	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	4.345	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2.9	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.1	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.3	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2.1	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2.8	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	3.4	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.078	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	4.208	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	6.001	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.7	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	2.9	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.1	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.1	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	3.1	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Barium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	2.8	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05725	0	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06266	0	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.05784	0	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02651	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.02925	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03016	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.057	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.058	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.054	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05126	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03029	0	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05736	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.061	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.053	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.056	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.054	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.056	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02676	0	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03108	0	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.02717	0	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.03	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.029	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.028	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02616	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0286	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0301	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.062	0	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.056	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.061	0	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02712	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02938	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02688	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.031	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.03	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.028	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05888	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.055	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.05775	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.027	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.029	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0589	0	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.03	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.03	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1237	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1229	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1207	0	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.062	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0587	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0609	0	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0615	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0571	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Beryllium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0591	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.3893	0	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4338	0	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4097	0	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.808	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.958	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	1.949	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.4	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.37	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7223	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4194	0	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7887	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.42	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.37	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.39	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.37	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.39	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3791	0	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4218	0	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3971	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.42	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.4	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.7	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.716	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.978	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.43	0	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.39	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.42	0	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3842	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.4068	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.3808	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.43	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.39	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.42	0	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.4	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.8448	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.8	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.825	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.41	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.39	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.41	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.41	0	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.42	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.42	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.8621	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.855	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.8435	0	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.43	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.41	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.42	0	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.43	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.4	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Boron	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.41	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.009847	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01591	0	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.008435	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.00723	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.00765	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.007656	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0073	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0074	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0069	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01351	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.008621	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.008126	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.016	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0069	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0072	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01182	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.009768	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01359	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0078	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0074	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0073	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.009374	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.00902	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.00903	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.023	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0071	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0078	0	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007232	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.007684	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.00672	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0072	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0073	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0073	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0077	0	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0074	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01562	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01475	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01513	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0075	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0071	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0075	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0152	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0078	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0077	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.008621	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.008775	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01856	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.011	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0151	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0157	0	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0158	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0147	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cadmium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0152	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4809	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1832	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2651	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1181	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1283	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1276	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.12	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.11	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2214	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2563	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.2629	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.11	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.11	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2899	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2442	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3344	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.13	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.12	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1897	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2002	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.2365	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.12	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.13	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1198	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1266	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.1142	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.13	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.12	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.12	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.12	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.13	0	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.12	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.256	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2425	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2503	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2563	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.27	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3615	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.12	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Chromium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.13	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.126	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.06507	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1085	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0482	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04275	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04408	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.037	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.032	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.038	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.04427	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.07223	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05258	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.038	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.038	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.043	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.052	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1249	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.0888	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1484	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.045	1	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.044	1	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.041	1	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0872	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0836	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.09675	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.048	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.048	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.051	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01333	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04746	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0448	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.05	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.054	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.045	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.06	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.046	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.051	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0768	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0725	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.066	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.049	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.058	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.04	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.045	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.055	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03728	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.054	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.1277	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.059	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.047	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.044	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Cobalt	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.04	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.7786	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.6266	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.9399	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.9881	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.6975	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.7192	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.51	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	1	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	6.3	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.9087	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.8388	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.7409	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.76	1	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	2.1	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	1	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.54	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.65	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.9589	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.6882	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	1.129	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.95	1	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	1.3	1	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.79	1	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.6976	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.814	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.774	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.79	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.58	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	12.2	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.339	1	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.7232	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.7168	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.88	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.93	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.98	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.85	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.63	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.66	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.768	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	1.025	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.99	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.69	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	2.1	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.73	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.87	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	1.1	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.83	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.699	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.9	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	1.542	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.5	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.3	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.98	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	1.9	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Copper	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.61	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2244	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.08676	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2073	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0482	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04725	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0464	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.041	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.045	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.039	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.05825	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.09087	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.06931	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.038	1	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.053	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.047	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.059	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.052	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1806	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1021	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1756	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.035	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.061	1	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.033	1	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.109	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1078	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1032	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.046	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.045	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.54	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.02712	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0678	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.06944	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.049	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.06	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.05	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.089	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.064	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.07	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1434	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.125	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.132	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.056	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.15	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.078	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.051	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.069	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.06	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.07456	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.108	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2193	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.088	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.048	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.059	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.058	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.043	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Lead	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.05	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	37.1	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	24.82	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	28.92	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	34.7	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	29.93	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	33.64	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	25.3	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	19.5	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	20.1	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	27.26	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	31.22	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	35.37	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	29	1	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	29.3	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	27.4	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	27.7	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	27.7	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	37.69	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	31.75	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	32.81	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	31.1	1	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	33.3	1	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	33.6	1	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	20.99	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	23.76	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	41.28	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	27	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	22.9	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	23.1	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.2486	1	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	39.32	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	40.77	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	32.5	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	36.1	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	33.3	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	35.1	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	28	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	33.7	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	38.4	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	31	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	41.8	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	26.3	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	17.2	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	21.8	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	19.1	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	22.6	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	32.6	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	33.09	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	35.78	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	29.88	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	41.1	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	32.6	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	34.2	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	29.7	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	29.6	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Manganese	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	22.4	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01695	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01205	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01639	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01085	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01283	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0116	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.012	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.015	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01072	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01398	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01362	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.012	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.01	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.011	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.012	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01516	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01931	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01547	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.012	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.011	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.011	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01134	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01144	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01376	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.016	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.013	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04068	1	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01605	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01366	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.012	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.018	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.013	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.011	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01178	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01225	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01485	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.011	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.012	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.012	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01188	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01508	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.004579	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.012	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.011	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.012	0	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.012	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.012	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Mercury	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.012	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03893	0	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03615	0	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.03374	0	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.03374	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.036	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0348	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.034	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.032	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03029	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03495	0	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.03346	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.036	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.031	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.033	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.032	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.033	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03122	0	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03552	0	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.03344	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.036	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.034	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03052	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0352	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.03655	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.033	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.036	0	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.0339	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03616	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.03136	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.036	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.033	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.034	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.034	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.036	0	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.034	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03584	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.0325	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.03575	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.035	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.033	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.034	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.035	0	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03728	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.036	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.03615	0	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.035	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.036	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.036	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.034	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Molybdenum	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.035	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2519	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1326	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2024	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1277	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1665	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.1253	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.094	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.095	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.25	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1701	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.219	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1864	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.099	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.087	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.091	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.088	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.092	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2163	0	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1332	0	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2717	0	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.1	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.094	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.093	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1373	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	1.254	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.1742	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.1	0	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.092	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	2.4	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09266	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.09718	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08736	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.1	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.092	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.093	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.093	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.099	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.094	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1997	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.185	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1925	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.097	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.091	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.096	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.096	0	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.17	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.099	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2027	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2003	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.2892	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.15	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.096	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.17	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.12	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Nickel	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.097	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4351	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4338	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.4338	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.4338	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.405	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.3944	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.46	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.38	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3961	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.3961	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.4063	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.62	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.55	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.64	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.61	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.49	1	0.05 < p < 0.1
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4683	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.4218	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.5434	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.54	1	0.05 < p < 0.1

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.56	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.56	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3924	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.44	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.3655	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.78	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.4	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.45	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.452	1	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.5198	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.448	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.65	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.52	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.52	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.49	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.51	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.47	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.384	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.4	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.44	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.56	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.53	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.4	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.59	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.51	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.3961	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.405	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.7471	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.63	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.5	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.59	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.59	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.52	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Selenium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.45	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002748	0	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002892	0	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.002892	0	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002651	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.002925	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.003016	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.0026	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002563	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.003029	0	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.002868	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0027	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0026	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.0027	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002676	0	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002886	0	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.002717	0	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0029	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.0028	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.002616	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.00286	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.00301	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0031	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.0027	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.003	0	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002712	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002938	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.002688	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.003	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0027	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0029	0	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.0028	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.003072	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00275	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.00275	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0027	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0028	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0029	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.003029	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002925	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.002892	0	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0028	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.003	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0028	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Silver	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.0029	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	9.504	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	6.796	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	7.423	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	8.7	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	7.448	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	9.419	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	8.2	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	6.6	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	5.3	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	7.223	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	8.598	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	11.81	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.9	1	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	9	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	7.6	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	10.7	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	8.4	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	9.277	1	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	9.768	1	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	9.05	1	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	9.7	1	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	9.8	1	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	8.3	1	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	13.52	1	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	13.4	1	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	11.78	1	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	9.6	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	7.9	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	8	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08136	1	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	10.64	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	10.91	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	8.3	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	9.9	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	7.9	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	10.3	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	12.5	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	10.5	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	10.55	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	8.45	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	11.91	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	9.2	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.7	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.2	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	6.1	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	7.6	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	11.2	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	9.972	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	10.46	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	10.19	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	8.3	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	6.8	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	7.6	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	8.7	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	10.1	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Strontium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	7.9	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01328	0	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01422	0	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.01326	0	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01759	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01395	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.01392	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.013	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.012	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01212	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01421	0	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.01315	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.014	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.012	0	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.012	0	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01316	0	
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01421	0	
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.01275	0	
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.014	0	
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.013	0	
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.02398	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0264	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.01914	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.017	0	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.014	0	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01288	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01379	0	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.01232	0	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.013	0	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.013	0	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.013	0	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.014	0	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.013	0	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01408	0	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01325	0	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.01375	0	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0276	0	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.0274	0	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.01794	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0225	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.02651	0	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.02	0	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	0	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.013	0	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Thallium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.014	0	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.2977	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1012	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	0.1952	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04338	0	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.04725	0	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	0.0464	0	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.06	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.045	0	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	0.041	0	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1584	0	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1095	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	0.1721	0	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.064	1	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.06	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.064	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.1	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	0.066	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.3791	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.1332	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	0.2508	1	0.05 < p < 0.1
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.077	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.082	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	0.071	1	0.05 < p < 0.1
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.05014	0	
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.044	0	
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	0.0473	0	
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.093	1	
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.046	1	
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	0.061	1	
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.04294	0	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08588	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	0.08064	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.077	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.072	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.063	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.09	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.082	1	

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	0.074	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1331	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.1525	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	0.2008	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.088	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.084	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.16	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.054	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.08	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	0.1	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.09553	0	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.0945	0	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	0.4338	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.11	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.061	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.1	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.069	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.062	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Vanadium	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	0.065	1	
KIF-CRM1.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	18	1	
KIF-ERM8.0_GZ.G.C.04-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	13.47	1	
KIF-ERM8.0_GZ.G.C.05-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	ERM8.0	Spring 2010	mg/kg	13.91	1	
KIF-ERM8.0_GZ.G.C.06-FH-051110	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	17.18	1	
KIF-LERM2.0_GZ.G.C.04-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	16.13	1	
KIF-LERM2.0_GZ.G.C.05-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	LERM2.0	Spring 2010	mg/kg	15.38	1	
KIF-LERM2.0_GZ.G.C.06-FH-042610	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	16	1	
KIF-ERM8.0_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	14.8	1	
KIF-ERM8.0_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_R	ERM8.0	Fall 2010	mg/kg	15.9	1	
KIF-ERM8.0_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	16.33	1	
KIF-ERM4.5_GZ.G.C.04-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	14.56	1	
KIF-ERM4.5_GZ.G.C.05-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Spring 2010	mg/kg	16.73	1	
KIF-ERM4.5_GZ.G.C.06-FH-051910	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	20.8	1	
KIF-ERM4.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	21.2	1	
KIF-ERM4.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	22.2	1	
KIF-ERM4.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	18	1	
KIF-ERM4.5_GZ.G.C.04-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_C	ERM4.5	Fall 2010	mg/kg	16.7	1	
KIF-ERM4.5_GZ.G.C.05-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	16.44	1	p < 0.05
KIF-ERM3.0_GZ.G.C.01-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	16.81	1	p < 0.05
KIF-ERM3.0_GZ.G.C.02-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	ERM3.0	Spring 2010	mg/kg	15.45	1	p < 0.05
KIF-ERM3.0_GZ.G.C.03-FH-042110	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	24.2	1	p < 0.05

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Appendix B-2. TVA Gizzard Shad Whole Body and Whole Body Without Gut Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Tissue Type	Analyte Name	Parameter Group	Reach	Location	Event	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
KIF-ERM2.5_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	23.6	1	p < 0.05
KIF-ERM2.5_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_B	ERM2.5	Fall 2010	mg/kg	22.6	1	p < 0.05
KIF-ERM2.5_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	19.38	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.G.C.04-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	19.21	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.G.C.05-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	ERM0.9	Spring 2010	mg/kg	18.71	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.G.C.06-FH-040710	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	15.7	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.G.C.01-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	17.4	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.G.C.02-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	ER_A	ERM0.9	Fall 2010	mg/kg	23.7	1	0.05 < p < 0.1
KIF-ERM0.9_GZ.G.C.03-FH-010411-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	10.55	1	
KIF-CRM8.0_GZ.G.C.04-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	18.1	1	
KIF-CRM8.0_GZ.G.C.05-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Spring 2010	mg/kg	18.64	1	
KIF-CRM8.0_GZ.G.C.06-FH-041310	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	22.1	1	
KIF-CRM8.0_GZ.G.C.01-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	22.8	1	
KIF-CRM8.0_GZ.G.C.02-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	23	1	
KIF-CRM8.0_GZ.G.C.03-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	19.8	1	
KIF-CRM8.0_GZ.G.C.04-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	16.2	1	
KIF-CRM8.0_GZ.G.C.05-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_R	CRM8.0	Fall 2010	mg/kg	17	1	
KIF-CRM8.0_GZ.G.C.06-FH-122010-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	16.97	1	
KIF-CRM3.5_GZ.G.C.04-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	17.6	1	
KIF-CRM3.5_GZ.G.C.05-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Spring 2010	mg/kg	17.38	1	
KIF-CRM3.5_GZ.G.C.06-FH-061510	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	18.4	1	
KIF-CRM3.5_GZ.G.C.01-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	16.2	1	
KIF-CRM3.5_GZ.G.C.02-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	15.8	1	
KIF-CRM3.5_GZ.G.C.03-FH-121510-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	14.5	1	
KIF-CRM3.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	16.6	1	
KIF-CRM3.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_B	CRM3.5	Fall 2010	mg/kg	24	1	
KIF-CRM3.5_GZ.G.C.06-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	17.89	1	
KIF-CRM1.5_GZ.G.C.04-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	18.36	1	
KIF-CRM1.5_GZ.G.C.05-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Spring 2010	mg/kg	19.04	1	
KIF-CRM1.5_GZ.G.C.06-FH-041210	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	30.2	1	
KIF-CRM1.5_GZ.G.C.01-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	22.3	1	
KIF-CRM1.5_GZ.G.C.02-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	23.4	1	
KIF-CRM1.5_GZ.G.C.03-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	25.1	1	
KIF-CRM1.5_GZ.G.C.04-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	21.2	1	
KIF-CRM1.5_GZ.G.C.05-FH-122110-A	Gizzard Shad	Whole Body (minus gut content)	Zinc	Inorganic	CR_A	CRM1.5	Fall 2010	mg/kg	17	1	

Notes:

CR_A - Clinch Reach A
CR_B - Clinch Reach B
CRM - Clinch River Mile
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ER_C - Emory Reach C
ERM - Emory River Mile
ER_R - Emory River Referer
LERM - Little Emory River Mile
mg/kg - milligrams per kilogram
ND - non-detect
TVA - Tennessee Valley Authority

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15740L	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	8.1	1	
15741L	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	3.3	1	
15742L	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	5	1	
15787L	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	5.4	1	
15788L	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	5	1	
15789L	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.6	1	
15405L	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	4.7	1	
15406L	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	5	1	
15407L	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	4.5	1	
15760L	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.5	1	
15761L	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	5.6	1	
15764L	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	6.4	1	
15423L	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	4.6	1	
15427L	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	3.3	1	
15429L	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	5	1	
15724L	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	35	1	0.05 < p < 0.1
15726L	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	3	1	0.05 < p < 0.1
15731L	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	14	1	0.05 < p < 0.1
15740L	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.67	0	
15741L	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.3	0	
15742L	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.41	0	
15787L	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0081	1	
15788L	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0065	1	
15789L	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0089	1	
15405L	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.012	1	
15406L	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0081	1	
15407L	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.012	1	
15760L	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0048	1	
15761L	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.013	1	
15764L	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.017	1	
15423L	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.015	1	
15427L	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0033	1	
15429L	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.004	1	
15724L	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.013	1	
15726L	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.19	0	
15731L	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	0	
15740L	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.28	1	
15741L	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.22	1	
15742L	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.13	1	
15787L	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.078	1	
15788L	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.085	1	
15789L	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.19	1	
15405L	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.34	1	p < 0.05
15406L	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.32	1	p < 0.05
15407L	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.52	1	p < 0.05
15760L	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.31	1	0.05 < p < 0.1
15761L	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.31	1	0.05 < p < 0.1

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15764L	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.44	1	0.05 < p < 0.1
15423L	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.23	1	
15427L	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.11	1	
15429L	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.25	1	
15724L	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.1	1	p < 0.05
15726L	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.25	1	p < 0.05
15731L	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.95	1	p < 0.05
15740L	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.67	0	
15741L	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.011	1	
15742L	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.035	1	
15787L	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.35	0	
15788L	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.029	1	
15789L	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.37	0	
15405L	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.3	0	
15406L	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.079	1	
15407L	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.097	1	
15760L	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.044	1	
15761L	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.066	1	
15764L	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.028	1	
15423L	Bluegill	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.084	1	
15427L	Bluegill	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.038	1	
15429L	Bluegill	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.056	1	
15724L	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.35	1	
15726L	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.035	1	
15731L	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.18	1	
15740L	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.33	0	
15741L	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.15	0	
15742L	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.2	0	
15787L	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.18	0	
15788L	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.13	0	
15789L	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.19	0	
15405L	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	0	
15406L	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.12	0	
15407L	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	0	
15760L	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.18	0	
15761L	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.15	0	
15764L	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.14	0	
15423L	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.28	0	
15427L	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.097	0	
15429L	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.11	0	
15724L	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.19	0	
15726L	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.093	0	
15731L	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.79	0	
15740L	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.65	1	
15741L	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.5	0	
15742L	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	2	0	
15787L	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.25	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15788L	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.3	0	
15789L	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.9	0	
15405L	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.21	1	
15406L	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.2	0	
15407L	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.2	1	
15760L	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.8	0	
15761L	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.39	1	
15764L	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.21	1	
15423L	Bluegill	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.8	0	
15427L	Bluegill	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.16	1	
15429L	Bluegill	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.47	1	
15724L	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.38	1	
15726L	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.93	0	
15731L	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.7	1	
15740L	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.16	1	
15741L	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.27	1	
15742L	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.17	1	
15787L	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.11	1	
15788L	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.12	1	
15789L	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.083	1	
15405L	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.16	1	
15406L	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.18	1	
15407L	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	1	
15760L	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.24	1	0.05 < p < 0.1
15761L	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.28	1	0.05 < p < 0.1
15764L	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.28	1	0.05 < p < 0.1
15423L	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.13	1	
15427L	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.2	1	
15429L	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.11	1	
15724L	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.44	1	0.05 < p < 0.1
15726L	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.14	1	0.05 < p < 0.1
15731L	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.43	1	0.05 < p < 0.1
15740L	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	170	1	
15741L	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	140	1	
15742L	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	240	1	
15787L	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	91	1	
15788L	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	510	1	
15789L	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	180	1	
15405L	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	69	1	
15406L	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1500	1	
15407L	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	450	1	
15760L	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	85	1	
15761L	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	200	1	
15764L	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	130	1	
15423L	Bluegill	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	850	1	
15427L	Bluegill	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	480	1	
15429L	Bluegill	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	280	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15724L	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	390	1	
15726L	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	81	1	
15731L	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	220	1	
15740L	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.082	1	
15741L	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.094	1	
15742L	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.037	1	
15787L	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.057	1	
15788L	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.03	1	
15789L	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.066	1	
15405L	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.048	1	
15406L	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.11	1	
15407L	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.031	1	
15760L	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.038	1	
15761L	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.058	1	
15764L	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.048	1	
15423L	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.067	1	
15427L	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.042	1	
15429L	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.028	1	
15724L	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.096	1	
15726L	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.037	1	
15731L	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.27	1	
15740L	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.22	1	
15741L	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.2	1	
15742L	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.12	1	
15787L	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.16	1	
15788L	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.16	1	
15789L	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.12	1	
15405L	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.098	1	
15406L	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.17	1	
15407L	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.21	1	
15760L	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.12	1	
15761L	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.16	1	
15764L	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.14	1	
15423L	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.091	1	
15427L	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.14	1	
15429L	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.15	1	
15724L	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.26	1	
15726L	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.055	1	
15731L	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.18	1	
15740L	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.6	1	
15741L	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.2	1	
15742L	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.8	1	
15787L	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.6	1	
15788L	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.4	1	
15789L	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.4	1	
15405L	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.3	1	
15406L	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.6	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15407L	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.7	1	
15760L	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.4	1	
15761L	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.7	1	
15764L	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.4	1	
15423L	Bluegill	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.5	1	
15427L	Bluegill	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.2	1	
15429L	Bluegill	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.5	1	
15724L	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.7	1	
15726L	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	
15731L	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	
15740L	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	140	1	
15741L	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	150	1	
15742L	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	110	1	
15787L	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	110	1	
15788L	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	220	1	
15789L	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	44	1	
15405L	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	54	1	
15406L	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	68	1	
15407L	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	29	1	
15760L	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	61	1	
15761L	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	150	1	
15764L	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	71	1	
15423L	Bluegill	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	110	1	
15427L	Bluegill	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	76	1	
15429L	Bluegill	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	110	1	
15724L	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	160	1	
15726L	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	69	1	
15731L	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	80	1	
15740L	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0087	1	
15741L	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.1	1	
15742L	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.014	1	
15787L	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0074	1	
15788L	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0089	1	
15789L	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0048	1	
15405L	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.011	1	
15406L	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0097	1	
15407L	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.013	1	
15760L	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0092	1	
15761L	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.016	1	
15764L	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.012	1	
15423L	Bluegill	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.012	1	
15427L	Bluegill	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0064	1	
15429L	Bluegill	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.011	1	
15724L	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.055	1	
15726L	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0071	1	
15731L	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.022	1	
15740L	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	310	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15741L	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	400	1	
15742L	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	290	1	
15787L	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	310	1	
15788L	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	530	1	
15789L	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	310	1	
15405L	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	340	1	
15406L	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	340	1	
15407L	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	470	1	
15760L	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	320	1	
15761L	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	330	1	
15764L	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	320	1	
15423L	Bluegill	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	440	1	
15427L	Bluegill	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1100	1	
15429L	Bluegill	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	550	1	
15724L	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	840	1	
15726L	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	310	1	
15731L	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	550	1	
15740L	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	8.6	1	
15741L	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	6.5	1	
15742L	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	5.3	1	
15787L	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.9	1	
15788L	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	3.6	1	
15789L	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	5.4	1	
15405L	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	3.4	1	
15406L	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.7	1	
15407L	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	3.5	1	
15760L	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.5	1	
15761L	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.9	1	
15764L	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	3	1	
15423L	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	4.5	1	
15427L	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.2	1	
15429L	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	3.7	1	
15724L	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	6.2	1	
15726L	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	5.7	1	
15731L	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.7	1	
15740L	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.15	1	
15741L	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.13	1	
15742L	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.13	1	
15787L	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.13	1	
15788L	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.14	1	
15789L	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.058	1	
15405L	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.12	1	
15406L	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.14	1	
15407L	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	1	
15760L	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.14	1	
15761L	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.18	1	
15764L	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.14	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15423L	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.18	1	
15427L	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.12	1	
15429L	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.15	1	
15724L	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.21	1	
15726L	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.081	1	
15731L	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.12	1	
15740L	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	3.3	0	
15741L	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.5	0	
15742L	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	2	0	
15787L	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.8	0	
15788L	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.3	0	
15789L	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.9	0	
15405L	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.5	0	
15406L	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.2	0	
15407L	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.032	1	
15760L	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.8	0	
15761L	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.5	0	
15764L	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.4	0	
15423L	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.8	0	
15427L	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.97	0	
15429L	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.1	0	
15724L	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.9	0	
15726L	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.93	0	
15731L	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	7.9	0	
15740L	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2300	1	
15741L	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3100	1	
15742L	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2700	1	
15787L	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	3100	1	
15788L	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	3000	1	
15789L	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2900	1	
15405L	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2900	1	
15406L	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2600	1	
15407L	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	4200	1	
15760L	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3600	1	
15761L	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3200	1	
15764L	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3100	1	
15423L	Bluegill	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2800	1	
15427L	Bluegill	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2200	1	
15429L	Bluegill	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2700	1	
15724L	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	2900	1	
15726L	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	2900	1	
15731L	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3000	1	
15740L	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.8	1	
15741L	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.7	1	
15742L	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.5	1	
15787L	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.2	1	
15788L	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.3	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15789L	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1	1	
15405L	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.3	1	p < 0.05
15406L	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.9	1	p < 0.05
15407L	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.9	1	p < 0.05
15760L	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.8	1	p < 0.05
15761L	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.5	1	p < 0.05
15764L	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.7	1	p < 0.05
15423L	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.7	1	
15427L	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.4	1	
15429L	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.6	1	
15724L	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.1	1	
15726L	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	
15731L	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	2	1	
15740L	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.33	0	
15741L	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0015	1	
15742L	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0016	1	
15787L	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.18	0	
15788L	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0013	1	
15789L	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.19	0	
15405L	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	0	
15406L	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0094	1	
15407L	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0026	1	
15760L	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.18	0	
15761L	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0012	1	
15764L	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0011	1	
15423L	Bluegill	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.28	0	
15427L	Bluegill	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.097	0	
15429L	Bluegill	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.11	0	
15724L	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.19	0	
15726L	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.093	0	
15731L	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.79	0	
15740L	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1300	1	
15741L	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	740	1	
15742L	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	900	1	
15787L	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	460	1	
15788L	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	650	1	
15789L	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	870	1	
15405L	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	740	1	
15406L	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	900	1	
15407L	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1100	1	
15760L	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	540	1	
15761L	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	540	1	
15764L	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	570	1	
15423L	Bluegill	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	910	1	
15427L	Bluegill	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1100	1	
15429L	Bluegill	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	960	1	
15724L	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	790	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15726L	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	840	1	
15731L	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1100	1	
15740L	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.029	1	
15741L	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.027	1	
15742L	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.024	1	
15787L	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.023	1	
15788L	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.015	1	
15789L	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.042	1	
15405L	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.12	1	p < 0.05
15406L	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.064	1	p < 0.05
15407L	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.13	1	p < 0.05
15760L	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.09	1	p < 0.05
15761L	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.079	1	p < 0.05
15764L	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.072	1	p < 0.05
15423L	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.021	1	
15427L	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.019	1	
15429L	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.035	1	
15724L	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.098	1	p < 0.05
15726L	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.082	1	p < 0.05
15731L	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.098	1	p < 0.05
15740L	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.22	1	
15741L	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.065	1	
15742L	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.07	1	
15787L	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.16	1	
15788L	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.18	1	
15789L	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.12	1	
15405L	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.24	1	
15406L	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.24	1	
15407L	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.18	1	
15760L	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.035	1	
15761L	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.12	1	
15764L	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.25	1	
15423L	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.077	1	
15427L	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.093	1	
15429L	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.099	1	
15724L	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.82	1	p < 0.05
15726L	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.21	1	p < 0.05
15731L	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.36	1	p < 0.05
15740L	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	19	1	
15741L	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	20	1	
15742L	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	22	1	
15787L	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	20	1	
15788L	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	20	1	
15789L	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	20	1	
15405L	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	18	1	
15406L	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	20	1	
15407L	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	32	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15760L	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	22	1	
15761L	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	27	1	
15764L	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	25	1	
15423L	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	23	1	
15427L	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	19	1	
15429L	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	21	1	
15724L	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	22	1	
15726L	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	18	1	
15731L	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	21	1	
15523L	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.3	1	
15524L	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	3.5	1	
15525L	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.6	1	
15527L	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.5	1	
15528L	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.1	1	
15539L	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	1	1	
15560L	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.6	1	
15561L	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.5	1	
15562L	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.7	1	
15361L	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.2	1	
15362L	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	4.4	1	
15364L	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.9	1	
15280L	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.2	1	
15284L	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.5	1	
15285L	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.8	1	
15565L	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	3.3	1	
15567L	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.7	1	
15568L	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.1	1	
15523L	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0061	1	
15524L	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0078	1	
15525L	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0041	1	
15527L	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.099	0	
15528L	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0081	1	
15539L	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.11	0	
15560L	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0031	1	
15561L	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0046	1	
15562L	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0025	1	
15361L	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0017	1	
15362L	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0028	1	
15364L	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.003	1	
15280L	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0015	1	
15284L	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0011	1	
15285L	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0021	1	
15565L	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0019	1	
15567L	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0013	1	
15568L	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0012	1	
15523L	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.4	1	
15524L	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.29	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15525L	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.15	1	
15527L	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.12	1	
15528L	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.19	1	
15539L	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.25	1	
15560L	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.21	1	
15561L	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	1	
15562L	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	1	
15361L	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.3	1	
15362L	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.21	1	
15364L	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.37	1	
15280L	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.4	1	
15284L	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.43	1	
15285L	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.16	1	
15565L	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.2	1	
15567L	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.49	1	
15568L	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.48	1	
15523L	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0042	1	
15524L	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0071	1	
15525L	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0066	1	
15527L	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.017	1	
15528L	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0051	1	
15539L	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.11	0	
15560L	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.082	1	
15561L	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.013	1	
15562L	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.017	1	
15361L	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0083	1	
15362L	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.012	1	
15364L	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0063	1	
15280L	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.052	1	
15284L	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.01	1	
15285L	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.013	1	
15565L	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.021	1	
15567L	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.022	1	
15568L	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.012	1	
15523L	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.049	0	
15524L	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.049	0	
15525L	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.05	0	
15527L	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.05	0	
15528L	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.053	0	
15539L	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.053	0	
15560L	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.053	0	
15561L	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.05	0	
15562L	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.047	0	
15361L	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.047	0	
15362L	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.047	0	
15364L	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.049	0	
15280L	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.05	0	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15284L	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.052	0	
15285L	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.047	0	
15565L	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.05	0	
15567L	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.049	0	
15568L	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.051	0	
15523L	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.49	0	
15524L	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.49	0	
15525L	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.5	0	
15527L	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.14	1	
15528L	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.53	0	
15539L	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.096	1	
15560L	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.53	0	
15561L	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.073	1	
15562L	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.47	0	
15361L	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.087	1	
15362L	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.068	1	
15364L	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.49	0	
15280L	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.1	1	
15284L	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.52	0	
15285L	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.47	0	
15565L	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.21	1	
15567L	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.14	1	
15568L	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.092	1	
15523L	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.092	1	
15524L	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.17	1	
15525L	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.25	1	
15527L	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.086	1	
15528L	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.061	1	
15539L	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.057	1	
15560L	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.12	1	
15561L	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.13	1	
15562L	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	1	
15361L	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.15	1	
15362L	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.41	1	
15364L	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.092	1	
15280L	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.11	1	
15284L	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.092	1	
15285L	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.064	1	
15565L	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.36	1	
15567L	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.093	1	
15568L	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.076	1	
15523L	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	63	1	
15524L	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	99	1	
15525L	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	180	1	
15527L	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	71	1	
15528L	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	99	1	
15539L	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	86	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15560L	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	130	1	
15561L	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	79	1	
15562L	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	70	1	
15361L	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	70	1	
15362L	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	59	1	
15364L	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	81	1	
15280L	Largemouth Bass	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	110	1	
15284L	Largemouth Bass	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	88	1	
15285L	Largemouth Bass	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	78	1	
15565L	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	52	1	
15567L	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	270	1	
15568L	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	79	1	
15523L	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.014	1	
15524L	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.012	1	
15525L	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.019	1	
15527L	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.018	1	
15528L	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.013	1	
15539L	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.017	1	
15560L	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.032	1	
15561L	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.01	1	
15562L	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0088	1	
15361L	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0073	1	
15362L	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.017	1	
15364L	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0098	1	
15280L	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.027	1	
15284L	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.015	1	
15285L	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.013	1	
15565L	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.023	1	
15567L	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.021	1	
15568L	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.018	1	
15523L	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.23	1	
15524L	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.075	1	
15525L	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.13	1	
15527L	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.08	1	
15528L	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.056	1	
15539L	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.074	1	
15560L	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.069	1	
15561L	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.054	1	
15562L	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.076	1	
15361L	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.062	1	
15362L	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.06	1	
15364L	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.074	1	
15280L	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.046	1	
15284L	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.083	1	
15285L	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.031	1	
15565L	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.055	1	
15567L	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.044	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15568L	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.056	1	
15523L	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	17	1	
15524L	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	8.6	1	
15525L	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	3.6	1	
15527L	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	7.8	1	
15528L	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.4	1	
15539L	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.4	1	
15560L	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	4.8	1	
15561L	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	2	1	
15562L	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.3	1	
15361L	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.1	1	
15362L	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	7.5	1	
15364L	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.1	1	
15280L	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.4	1	0.05 < p < 0.1
15284L	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.6	1	0.05 < p < 0.1
15285L	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	3	1	0.05 < p < 0.1
15565L	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	4	1	
15567L	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	9.3	1	
15568L	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	8.2	1	
15523L	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	370	1	
15524L	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	320	1	
15525L	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	260	1	
15527L	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	310	1	
15528L	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	140	1	
15539L	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	61	1	
15560L	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	160	1	
15561L	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	53	1	
15562L	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	140	1	
15361L	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	79	1	
15362L	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	180	1	
15364L	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	24	1	
15280L	Largemouth Bass	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	44	1	
15284L	Largemouth Bass	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	75	1	
15285L	Largemouth Bass	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	65	1	
15565L	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	120	1	
15567L	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	160	1	
15568L	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	120	1	
15523L	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0062	1	
15524L	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0058	1	
15525L	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0083	1	
15527L	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0089	1	
15528L	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0047	1	
15539L	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0025	1	
15560L	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.013	1	
15561L	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0068	1	
15562L	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0053	1	
15361L	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0056	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15362L	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0056	1	
15364L	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0041	1	
15280L	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0075	1	
15284L	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0046	1	
15285L	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0056	1	
15565L	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.014	1	
15567L	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0087	1	
15568L	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0067	1	
15523L	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	200	1	
15524L	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	210	1	
15525L	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	260	1	
15527L	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	260	1	
15528L	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	300	1	
15539L	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	260	1	
15560L	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	260	1	
15561L	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	240	1	
15562L	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	240	1	
15361L	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	240	1	
15362L	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	230	1	
15364L	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	250	1	
15280L	Largemouth Bass	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	290	1	
15284L	Largemouth Bass	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	270	1	
15285L	Largemouth Bass	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	170	1	
15565L	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	230	1	
15567L	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	260	1	
15568L	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	240	1	
15523L	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	3.1	1	
15524L	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.9	1	
15525L	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	2	1	
15527L	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	3.2	1	
15528L	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.7	1	
15539L	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	3.5	1	
15560L	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	3.3	1	
15561L	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.6	1	
15562L	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	3.9	1	
15361L	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.7	1	
15362L	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.1	1	
15364L	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.5	1	
15280L	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.8	1	
15284L	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.2	1	
15285L	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.6	1	
15565L	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.2	1	
15567L	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	3	1	
15568L	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.8	1	
15523L	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.34	1	
15524L	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.17	1	
15525L	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.12	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15527L	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.14	1	
15528L	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.12	1	
15539L	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.16	1	
15560L	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	1	
15561L	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	1	
15562L	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	1	
15361L	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.14	1	
15362L	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.19	1	
15364L	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.18	1	
15280L	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.091	1	$p < 0.05$
15284L	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.16	1	$p < 0.05$
15285L	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.1	1	$p < 0.05$
15565L	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.26	1	
15567L	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.17	1	
15568L	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.2	1	
15523L	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.49	0	
15524L	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.49	0	
15525L	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.5	0	
15527L	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.5	0	
15528L	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0079	1	
15539L	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.53	0	
15560L	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.53	0	
15561L	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.5	0	
15562L	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.47	0	
15361L	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.47	0	
15362L	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.47	0	
15364L	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.49	0	
15280L	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.5	0	
15284L	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.52	0	
15285L	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.47	0	
15565L	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.5	0	
15567L	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.49	0	
15568L	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.51	0	
15523L	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2600	1	
15524L	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2700	1	
15525L	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2600	1	
15527L	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2600	1	
15528L	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	3300	1	
15539L	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3300	1	
15560L	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2800	1	
15561L	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2800	1	
15562L	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3100	1	
15361L	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3100	1	
15362L	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2700	1	
15364L	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3200	1	
15280L	Largemouth Bass	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2600	1	
15284L	Largemouth Bass	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	3400	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15285L	Largemouth Bass	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2300	1	
15565L	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3400	1	
15567L	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	2700	1	
15568L	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3300	1	
15523L	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.1	1	
15524L	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.3	1	
15525L	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2	1	
15527L	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.9	1	
15528L	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.3	1	
15539L	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.6	1	
15560L	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.1	1	
15561L	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.8	1	
15562L	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.6	1	
15361L	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2	1	
15362L	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.2	1	
15364L	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2	1	
15280L	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.6	1	
15284L	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.6	1	
15285L	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.5	1	
15565L	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	
15567L	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.3	1	
15568L	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	
15523L	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.08	1	
15524L	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.01	1	
15525L	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0098	1	
15527L	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.018	1	
15528L	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.053	0	
15539L	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.053	0	
15560L	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0022	1	
15561L	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.00091	1	
15562L	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.047	0	
15361L	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.047	0	
15362L	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0026	1	
15364L	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.00087	1	
15280L	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.05	0	
15284L	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.052	0	
15285L	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0019	1	
15565L	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0012	1	
15567L	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.006	1	
15568L	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0048	1	
15523L	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	920	1	
15524L	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	740	1	
15525L	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1000	1	
15527L	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1200	1	
15528L	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	740	1	
15539L	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	700	1	
15560L	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1100	1	

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Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15561L	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1100	1	
15562L	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	910	1	
15361L	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	820	1	
15362L	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1100	1	
15364L	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1000	1	
15280L	Largemouth Bass	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1200	1	
15284L	Largemouth Bass	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	840	1	
15285L	Largemouth Bass	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1000	1	
15565L	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	760	1	
15567L	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1300	1	
15568L	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	840	1	
15523L	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.033	1	
15524L	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.047	1	
15525L	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.025	1	
15527L	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.02	1	
15528L	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.022	1	
15539L	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.036	1	
15560L	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.078	1	p < 0.05
15561L	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.048	1	p < 0.05
15562L	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.055	1	p < 0.05
15361L	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.064	1	p < 0.05
15362L	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.056	1	p < 0.05
15364L	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.085	1	p < 0.05
15280L	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.049	1	
15284L	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.056	1	
15285L	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.022	1	
15565L	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.022	1	
15567L	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.035	1	
15568L	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.058	1	
15523L	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.051	1	
15524L	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.088	1	
15525L	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.052	1	
15527L	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.04	1	
15528L	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.048	1	
15539L	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0029	1	
15560L	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.054	1	
15561L	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.048	1	
15562L	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.033	1	
15361L	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.084	1	
15362L	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.26	1	
15364L	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.051	1	
15280L	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.019	1	
15284L	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.024	1	
15285L	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.078	1	
15565L	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.27	1	
15567L	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.1	1	
15568L	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.063	1	

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Appendix C. TVA Liver Individual Samples

Tennessee Valley Authority **Kingston, Tennessee**

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15523L	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	33	1	
15524L	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	29	1	
15525L	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	20	1	
15527L	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	25	1	
15528L	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	20	1	
15539L	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	19	1	
15560L	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	32	1	
15561L	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	21	1	
15562L	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	20	1	
15361L	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	23	1	
15362L	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	25	1	
15364L	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	24	1	
15280L	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	24	1	
15284L	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	22	1	
15285L	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	16	1	
15565L	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	25	1	
15567L	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	28	1	
15568L	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	26	1	

Notes:

CR_A - Clinch Reach A
CRM - Clinch River Mile
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ERM - Emory River Mile
ER_R - Emory River Reference Reach
LERM - Little Emory River Mile
mg/kg - milligrams per kilogram
ND - non-detect
TVA - Tennessee Valley Authority

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15740V	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.91	1	
15741V	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.4	1	
15742V	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.6	1	
15743V	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.3	1	
15750V	Bluegill	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.1	1	
15787V	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.7	1	
15788V	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.8	1	
15789V	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.5	1	
15790V	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.7	1	
15791V	Bluegill	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	3.6	1	
15405V	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.8	1	
15406V	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.8	1	
15407V	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.1	1	
15408V	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.65	1	
15409V	Bluegill	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.61	1	
15760V	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.5	1	
15761V	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	8.5	1	
15764V	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.4	1	
15770V	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.95	1	
15777V	Bluegill	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.91	1	
15423V	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.8	1	
15427V	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.79	1	
15429V	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.9	1	
15433V	Bluegill	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.3	1	
15724V	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	5.3	1	$p < 0.05$
15725V	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.3	1	$p < 0.05$
15726V	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.7	1	$p < 0.05$
15731V	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.5	1	$p < 0.05$
15737V	Bluegill	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	5.4	1	$p < 0.05$
15740V	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.11	0	
15741V	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.13	0	
15742V	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0027	1	
15743V	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.004	1	
15750V	Bluegill	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.55	0	
15787V	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0047	1	
15788V	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0033	1	
15789V	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0053	1	
15790V	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0052	1	
15791V	Bluegill	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0033	1	
15405V	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.011	1	
15406V	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.008	1	
15407V	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0084	1	
15408V	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0066	1	
15409V	Bluegill	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.003	1	
15760V	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0042	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15761V	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0087	1	
15764V	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0045	1	
15770V	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0044	1	
15777V	Bluegill	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.017	1	
15423V	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0051	1	
15427V	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0021	1	
15429V	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.3	0	
15433V	Bluegill	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.01	1	
15724V	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.57	0	
15725V	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.37	0	
15726V	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0018	1	
15731V	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0012	1	
15737V	Bluegill	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.16	0	
15740V	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.11	1	
15741V	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.048	1	
15742V	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.028	1	
15743V	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.077	1	
15750V	Bluegill	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.074	1	
15787V	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.017	1	
15788V	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.021	1	
15789V	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.094	1	
15790V	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.046	1	
15791V	Bluegill	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.046	1	
15405V	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.11	1	
15406V	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.067	1	
15407V	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.084	1	
15408V	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.097	1	
15409V	Bluegill	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.025	1	
15760V	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.083	1	
15761V	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.066	1	
15764V	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.13	1	
15770V	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.069	1	
15777V	Bluegill	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.1	1	
15423V	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.093	1	
15427V	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.031	1	
15429V	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.094	1	
15433V	Bluegill	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.05	1	
15724V	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.39	1	$p < 0.05$
15725V	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.11	1	$p < 0.05$
15726V	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.095	1	$p < 0.05$
15731V	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.18	1	$p < 0.05$
15737V	Bluegill	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.48	1	$p < 0.05$
15740V	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.16	1	
15741V	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.11	1	
15742V	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.1	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15743V	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.17	1	
15750V	Bluegill	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.48	1	
15787V	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.15	1	
15788V	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.07	1	
15789V	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.2	1	
15790V	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.17	1	
15791V	Bluegill	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.18	1	
15405V	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.093	1	
15406V	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.11	1	
15407V	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.2	1	
15408V	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.16	1	
15409V	Bluegill	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.092	1	
15760V	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.13	1	
15761V	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.11	1	
15764V	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.091	1	
15770V	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.21	1	
15777V	Bluegill	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.13	1	
15423V	Bluegill	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.12	1	
15427V	Bluegill	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.068	1	
15429V	Bluegill	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.14	1	
15433V	Bluegill	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.068	1	
15724V	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.22	1	
15725V	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.12	1	
15726V	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.11	1	
15731V	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.11	1	
15737V	Bluegill	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.21	1	
15740V	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.056	0	
15741V	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.064	0	
15742V	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.074	0	
15743V	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.1	0	
15750V	Bluegill	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.27	0	
15787V	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.091	0	
15788V	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.087	0	
15789V	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.089	0	
15790V	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.1	0	
15791V	Bluegill	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.087	0	
15405V	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.23	0	
15406V	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.11	0	
15407V	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.11	0	
15408V	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.1	0	
15409V	Bluegill	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.049	0	
15760V	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.048	0	
15761V	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.047	0	
15764V	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.098	0	
15770V	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.087	0	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15777V	Bluegill	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.096	0	
15423V	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.2	0	
15427V	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.094	0	
15429V	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.15	0	
15433V	Bluegill	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.14	0	
15724V	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.28	0	
15725V	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.18	0	
15726V	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.047	0	
15731V	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.051	0	
15737V	Bluegill	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.082	0	
15740V	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.086	1	
15741V	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.64	0	
15742V	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.27	1	
15743V	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.19	1	
15750V	Bluegill	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.69	1	
15787V	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.91	0	
15788V	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.87	0	
15789V	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.89	0	
15790V	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	1	0	
15791V	Bluegill	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.87	0	
15405V	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.3	0	
15406V	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.18	1	
15407V	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.1	0	
15408V	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	1	0	
15409V	Bluegill	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.49	0	
15760V	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.2	1	
15761V	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.12	1	
15764V	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.98	0	
15770V	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.87	0	
15777V	Bluegill	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.23	1	
15423V	Bluegill	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	2	0	
15427V	Bluegill	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.15	1	
15429V	Bluegill	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.4	1	
15433V	Bluegill	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.32	1	
15724V	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.8	0	
15725V	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.8	0	
15726V	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.16	1	
15731V	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.11	1	
15737V	Bluegill	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.14	1	
15740V	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0027	1	
15741V	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0071	1	
15742V	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0093	1	
15743V	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0038	1	
15750V	Bluegill	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.27	0	
15787V	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0055	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15788V	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.004	1	
15789V	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0025	1	
15790V	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.005	1	
15791V	Bluegill	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.003	1	
15405V	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0064	1	
15406V	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0041	1	
15407V	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0041	1	
15408V	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0056	1	
15409V	Bluegill	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0014	1	
15760V	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0032	1	
15761V	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0032	1	
15764V	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0057	1	
15770V	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.003	1	
15777V	Bluegill	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0052	1	
15423V	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0031	1	
15427V	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0055	1	
15429V	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0036	1	
15433V	Bluegill	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0033	1	
15724V	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.016	1	
15725V	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0066	1	
15726V	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0037	1	
15731V	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0045	1	
15737V	Bluegill	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0026	1	
15740V	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	220	1	
15741V	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	150	1	
15742V	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	100	1	
15743V	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	200	1	
15750V	Bluegill	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	550	1	
15787V	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	140	1	
15788V	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	220	1	
15789V	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	160	1	
15790V	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	490	1	
15791V	Bluegill	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	140	1	
15405V	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	160	1	
15406V	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	120	1	
15407V	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	690	1	
15408V	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	120	1	
15409V	Bluegill	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	41	1	
15760V	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	130	1	
15761V	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	180	1	
15764V	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	96	1	
15770V	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	140	1	
15777V	Bluegill	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	130	1	
15423V	Bluegill	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	130	1	
15427V	Bluegill	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	140	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15429V	Bluegill	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	170	1	
15433V	Bluegill	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	140	1	
15724V	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	160	1	
15725V	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	120	1	
15726V	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	160	1	
15731V	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	90	1	
15737V	Bluegill	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	220	1	
15740V	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.027	1	
15741V	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.033	1	
15742V	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.054	1	
15743V	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.079	1	
15750V	Bluegill	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.21	1	
15787V	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.068	1	
15788V	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.038	1	
15789V	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.04	1	
15790V	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.048	1	
15791V	Bluegill	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.038	1	
15405V	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.045	1	
15406V	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.024	1	
15407V	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.027	1	
15408V	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.018	1	
15409V	Bluegill	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.036	1	
15760V	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.018	1	
15761V	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0087	1	
15764V	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.032	1	
15770V	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.052	1	
15777V	Bluegill	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.037	1	
15423V	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.075	1	
15427V	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.044	1	
15429V	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.021	1	
15433V	Bluegill	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.074	1	
15724V	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.12	1	
15725V	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.14	1	
15726V	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.02	1	
15731V	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.034	1	
15737V	Bluegill	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.094	1	
15740V	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.029	1	
15741V	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.05	1	
15742V	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.036	1	
15743V	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.051	1	
15750V	Bluegill	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.048	1	
15787V	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.057	1	
15788V	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.045	1	
15789V	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.04	1	
15790V	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.03	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15791V	Bluegill	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.037	1	
15405V	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.037	1	
15406V	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.039	1	
15407V	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.035	1	
15408V	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.046	1	
15409V	Bluegill	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.013	1	
15760V	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.02	1	
15761V	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.042	1	
15764V	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.039	1	
15770V	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.032	1	
15777V	Bluegill	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.041	1	
15423V	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.02	1	
15427V	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.033	1	
15429V	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.036	1	
15433V	Bluegill	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.035	1	
15724V	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.066	1	
15725V	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.034	1	
15726V	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.027	1	
15731V	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.033	1	
15737V	Bluegill	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.042	1	
15740V	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.9	1	
15741V	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.74	1	
15742V	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.94	1	
15743V	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.93	1	
15750V	Bluegill	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.4	1	
15787V	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.83	1	
15788V	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.97	1	
15789V	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.8	1	
15790V	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.93	1	
15791V	Bluegill	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.8	1	
15405V	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.78	1	
15406V	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.93	1	
15407V	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.55	1	
15408V	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.72	1	
15409V	Bluegill	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.35	1	
15760V	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.62	1	
15761V	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.89	1	
15764V	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.75	1	
15770V	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1	1	
15777V	Bluegill	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1	1	
15423V	Bluegill	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.98	1	
15427V	Bluegill	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.7	1	
15429V	Bluegill	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.68	1	
15433V	Bluegill	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.9	1	
15724V	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.85	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15725V	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.78	1	
15726V	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.1	1	
15731V	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.9	1	
15737V	Bluegill	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.8	1	
15740V	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	17	1	
15741V	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	16	1	
15742V	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	19	1	
15743V	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	14	1	
15750V	Bluegill	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	15	1	
15787V	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	20	1	
15788V	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	37	1	
15789V	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	10	1	
15790V	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	9.8	1	
15791V	Bluegill	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	15	1	
15405V	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	9.2	1	
15406V	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	14	1	
15407V	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	11	1	
15408V	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	9.2	1	
15409V	Bluegill	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	5.5	1	
15760V	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	7.5	1	
15761V	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	11	1	
15764V	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	14	1	
15770V	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	14	1	
15777V	Bluegill	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	16	1	
15423V	Bluegill	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	13	1	
15427V	Bluegill	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	11	1	
15429V	Bluegill	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	11	1	
15433V	Bluegill	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	11	1	
15724V	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	21	1	
15725V	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	12	1	
15726V	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	13	1	
15731V	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	13	1	
15737V	Bluegill	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	15	1	
15740V	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.01	1	
15741V	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0053	1	
15742V	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0035	1	
15743V	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0048	1	
15750V	Bluegill	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0049	1	
15787V	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0064	1	
15788V	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.003	1	
15789V	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0036	1	
15790V	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0073	1	
15791V	Bluegill	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0092	1	
15405V	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.45	0	
15406V	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.23	0	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15407V	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.011	1	
15408V	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0026	1	
15409V	Bluegill	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0019	1	
15760V	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0029	1	
15761V	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0026	1	
15764V	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0031	1	
15770V	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0037	1	
15777V	Bluegill	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0035	1	
15423V	Bluegill	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0051	1	
15427V	Bluegill	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0026	1	
15429V	Bluegill	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0042	1	
15433V	Bluegill	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0069	1	
15724V	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.015	1	
15725V	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0077	1	
15726V	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0032	1	
15731V	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0038	1	
15737V	Bluegill	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0083	1	
15740V	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	310	1	
15741V	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	260	1	
15742V	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	290	1	
15743V	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	320	1	
15750V	Bluegill	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	330	1	
15787V	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	240	1	
15788V	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	270	1	
15789V	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	260	1	
15790V	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	290	1	
15791V	Bluegill	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	290	1	
15405V	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	250	1	
15406V	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	310	1	
15407V	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	210	1	
15408V	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	320	1	
15409V	Bluegill	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	100	1	
15760V	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	290	1	
15761V	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	270	1	
15764V	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	320	1	
15770V	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	350	1	
15777V	Bluegill	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	310	1	
15423V	Bluegill	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	270	1	
15427V	Bluegill	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	330	1	
15429V	Bluegill	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	290	1	
15433V	Bluegill	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	310	1	
15724V	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	320	1	
15725V	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	310	1	
15726V	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	270	1	
15731V	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	340	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15737V	Bluegill	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	340	1	
15740V	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.8	1	
15741V	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	4.5	1	
15742V	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	5.4	1	
15743V	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.7	1	
15750V	Bluegill	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.4	1	
15787V	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.1	1	
15788V	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.6	1	
15789V	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.3	1	
15790V	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.4	1	
15791V	Bluegill	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.4	1	
15405V	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.2	1	
15406V	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.9	1	
15407V	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.3	1	
15408V	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.3	1	
15409V	Bluegill	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.69	1	
15760V	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	2.2	1	
15761V	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.87	1	
15764V	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.2	1	
15770V	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.5	1	
15777V	Bluegill	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	5.9	1	
15423V	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.7	1	
15427V	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.1	1	
15429V	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.1	1	
15433V	Bluegill	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.2	1	
15724V	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	5.3	1	0.05 < p < 0.1
15725V	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	3.1	1	0.05 < p < 0.1
15726V	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	3.8	1	0.05 < p < 0.1
15731V	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	0.05 < p < 0.1
15737V	Bluegill	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	5	1	0.05 < p < 0.1
15740V	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.041	1	
15741V	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.03	1	
15742V	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.03	1	
15743V	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.054	1	
15750V	Bluegill	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.03	1	
15787V	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.027	1	
15788V	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.033	1	
15789V	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.023	1	
15790V	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.027	1	
15791V	Bluegill	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.035	1	
15405V	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.046	1	
15406V	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.027	1	
15407V	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.025	1	
15408V	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.032	1	
15409V	Bluegill	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.012	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15760V	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.027	1	
15761V	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.027	1	
15764V	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.02	1	
15770V	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.03	1	
15777V	Bluegill	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.033	1	
15423V	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.032	1	
15427V	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.022	1	
15429V	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.035	1	
15433V	Bluegill	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.031	1	
15724V	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.07	1	$p < 0.05$
15725V	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.048	1	$p < 0.05$
15726V	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.049	1	$p < 0.05$
15731V	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.04	1	$p < 0.05$
15737V	Bluegill	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.052	1	$p < 0.05$
15740V	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.56	0	
15741V	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.64	0	
15742V	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.74	0	
15743V	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	1	0	
15750V	Bluegill	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.7	0	
15787V	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.91	0	
15788V	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.87	0	
15789V	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.89	0	
15790V	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	1	0	
15791V	Bluegill	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.87	0	
15405V	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.14	1	
15406V	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.08	1	
15407V	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.1	0	
15408V	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	1	0	
15409V	Bluegill	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.49	0	
15760V	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.48	0	
15761V	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.47	0	
15764V	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.98	0	
15770V	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.87	0	
15777V	Bluegill	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.96	0	
15423V	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	2	0	
15427V	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.94	0	
15429V	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.5	0	
15433V	Bluegill	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.4	0	
15724V	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.8	0	
15725V	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.8	0	
15726V	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.47	0	
15731V	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.51	0	
15737V	Bluegill	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.82	0	
15740V	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3000	1	
15741V	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2900	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15742V	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3000	1	
15743V	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3100	1	
15750V	Bluegill	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3400	1	
15787V	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2900	1	
15788V	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2600	1	
15789V	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2400	1	
15790V	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2900	1	
15791V	Bluegill	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2700	1	
15405V	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3100	1	
15406V	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	2900	1	
15407V	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1900	1	
15408V	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3100	1	
15409V	Bluegill	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	980	1	
15760V	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2800	1	
15761V	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2700	1	
15764V	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2800	1	
15770V	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3300	1	
15777V	Bluegill	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3000	1	
15423V	Bluegill	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2200	1	
15427V	Bluegill	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2800	1	
15429V	Bluegill	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2100	1	
15433V	Bluegill	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2900	1	
15724V	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3000	1	
15725V	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3200	1	
15726V	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	2900	1	
15731V	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3000	1	
15737V	Bluegill	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3100	1	
15740V	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.1	1	
15741V	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.2	1	
15742V	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.1	1	
15743V	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.1	1	
15750V	Bluegill	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.99	1	
15787V	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.78	1	
15788V	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.78	1	
15789V	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.75	1	
15790V	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.1	1	
15791V	Bluegill	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.95	1	
15405V	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.5	1	
15406V	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.3	1	
15407V	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.94	1	
15408V	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.4	1	
15409V	Bluegill	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.45	1	
15760V	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	
15761V	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.4	1	
15764V	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.1	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15770V	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.2	1	
15777V	Bluegill	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	
15423V	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.1	1	
15427V	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.91	1	
15429V	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.95	1	
15433V	Bluegill	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.1	1	
15724V	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.2	1	
15725V	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.3	1	
15726V	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.2	1	
15731V	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	
15737V	Bluegill	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.3	1	
15740V	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0056	1	
15741V	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0052	1	
15742V	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0034	1	
15743V	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0033	1	
15750V	Bluegill	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0049	1	
15787V	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0011	1	
15788V	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0016	1	
15789V	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0034	1	
15790V	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0044	1	
15791V	Bluegill	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.003	1	
15405V	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0023	1	
15406V	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0016	1	
15407V	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0013	1	
15408V	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0016	1	
15409V	Bluegill	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0013	1	
15760V	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0026	1	
15761V	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0034	1	
15764V	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.098	0	
15770V	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0012	1	
15777V	Bluegill	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0025	1	
15423V	Bluegill	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.002	1	
15427V	Bluegill	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.00075	1	
15429V	Bluegill	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0012	1	
15433V	Bluegill	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0019	1	
15724V	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.28	0	
15725V	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.18	0	
15726V	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.047	0	
15731V	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.051	0	
15737V	Bluegill	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.082	0	
15740V	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	700	1	
15741V	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	800	1	
15742V	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	740	1	
15743V	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	730	1	
15750V	Bluegill	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	890	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15787V	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	700	1	
15788V	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	690	1	
15789V	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	880	1	
15790V	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	670	1	
15791V	Bluegill	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	680	1	
15405V	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	940	1	
15406V	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	660	1	
15407V	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	510	1	
15408V	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	730	1	
15409V	Bluegill	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	230	1	
15760V	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	780	1	
15761V	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	650	1	
15764V	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	750	1	
15770V	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	770	1	
15777V	Bluegill	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	770	1	
15423V	Bluegill	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1200	1	
15427V	Bluegill	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	840	1	
15429V	Bluegill	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1200	1	
15433V	Bluegill	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	730	1	
15724V	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	850	1	
15725V	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	810	1	
15726V	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	720	1	
15731V	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	810	1	
15737V	Bluegill	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	720	1	
15740V	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.011	1	
15741V	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.01	1	
15742V	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0083	1	
15743V	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0098	1	
15750V	Bluegill	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.012	1	
15787V	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.006	1	
15788V	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0049	1	
15789V	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.011	1	
15790V	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0083	1	
15791V	Bluegill	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.011	1	
15405V	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.07	1	
15406V	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.019	1	
15407V	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.021	1	
15408V	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.03	1	
15409V	Bluegill	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0061	1	
15760V	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.03	1	
15761V	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.024	1	
15764V	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.022	1	
15770V	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.025	1	
15777V	Bluegill	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.017	1	
15423V	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.009	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15427V	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0089	1	
15429V	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.011	1	
15433V	Bluegill	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0094	1	
15724V	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.043	1	p < 0.05
15725V	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.025	1	p < 0.05
15726V	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.026	1	p < 0.05
15731V	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.03	1	p < 0.05
15737V	Bluegill	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.046	1	p < 0.05
15740V	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.22	0	
15741V	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.25	0	
15742V	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.3	0	
15743V	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.42	0	
15750V	Bluegill	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.1	0	
15787V	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.033	1	
15788V	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.037	1	
15789V	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.028	1	
15790V	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.034	1	
15791V	Bluegill	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.024	1	
15405V	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.092	1	
15406V	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.044	1	
15407V	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.047	1	
15408V	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.043	1	
15409V	Bluegill	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.017	1	
15760V	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.19	0	
15761V	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0096	1	
15764V	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.39	0	
15770V	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.35	0	
15777V	Bluegill	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.026	1	
15423V	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.78	0	
15427V	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.38	0	
15429V	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.6	0	
15433V	Bluegill	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.56	0	
15724V	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.1	0	
15725V	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.74	0	
15726V	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.018	1	
15731V	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.029	1	
15737V	Bluegill	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.016	1	
15740V	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	31	1	
15741V	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	42	1	
15742V	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	32	1	
15743V	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	31	1	
15750V	Bluegill	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	37	1	
15787V	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	35	1	
15788V	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	27	1	
15789V	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	30	1	

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Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15790V	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	26	1	
15791V	Bluegill	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	27	1	
15405V	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	31	1	
15406V	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	31	1	
15407V	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	22	1	
15408V	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	31	1	
15409V	Bluegill	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	9.6	1	
15760V	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	26	1	
15761V	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	26	1	
15764V	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	25	1	
15770V	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	32	1	
15777V	Bluegill	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	30	1	
15423V	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	35	1	
15427V	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	25	1	
15429V	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	31	1	
15433V	Bluegill	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	27	1	
15724V	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	37	1	
15725V	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	28	1	
15726V	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	38	1	
15731V	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	30	1	
15737V	Bluegill	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	32	1	
15523V	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.3	1	
15524V	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.34	1	
15525V	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.42	1	
15527V	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	1	1	
15528V	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.2	1	
15529V	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	1	1	
15531V	Largemouth Bass	Aluminum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.66	1	
15539V	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.64	1	
15542V	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.44	1	
15543V	Largemouth Bass	Aluminum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.52	1	
15560V	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.63	1	
15561V	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.88	1	
15562V	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.47	1	
15572V	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.66	1	
15574V	Largemouth Bass	Aluminum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.69	1	
15361V	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.45	1	
15362V	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.8	1	
15364V	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.35	1	
15370V	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.28	1	
15371V	Largemouth Bass	Aluminum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.45	1	
15280V	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.59	1	
15284V	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.34	1	
15285V	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.64	1	
15287V	Largemouth Bass	Aluminum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.35	1	

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Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15565V	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.7	1	
15567V	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.62	1	
15568V	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.52	1	
15570V	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.1	1	
15571V	Largemouth Bass	Aluminum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.82	1	
15523V	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0073	1	
15524V	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0079	1	
15525V	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.095	0	
15527V	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.1	0	
15528V	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0081	1	
15529V	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0075	1	
15531V	Largemouth Bass	Antimony	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0066	1	
15539V	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.14	0	
15542V	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.11	0	
15543V	Largemouth Bass	Antimony	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.11	0	
15560V	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.003	1	
15561V	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0096	1	
15562V	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0054	1	
15572V	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0061	1	
15574V	Largemouth Bass	Antimony	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0051	1	
15361V	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0017	1	
15362V	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0046	1	
15364V	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.002	1	
15370V	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0039	1	
15371V	Largemouth Bass	Antimony	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0013	1	
15280V	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0013	1	
15284V	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0048	1	
15285V	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0012	1	
15287V	Largemouth Bass	Antimony	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0013	1	
15565V	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0036	1	
15567V	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0011	1	
15568V	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.099	0	
15570V	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.096	0	
15571V	Largemouth Bass	Antimony	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.098	0	
15523V	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.2	1	
15524V	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.2	1	
15525V	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.098	1	
15527V	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.1	1	
15528V	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.14	1	
15529V	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.11	1	
15531V	Largemouth Bass	Arsenic	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.19	1	
15539V	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.084	1	
15542V	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.14	1	
15543V	Largemouth Bass	Arsenic	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.14	1	
15560V	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.15	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15561V	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.095	1	
15562V	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.14	1	
15572V	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	1	
15574V	Largemouth Bass	Arsenic	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	1	
15361V	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.18	1	p < 0.05
15362V	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.17	1	p < 0.05
15364V	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.24	1	p < 0.05
15370V	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.34	1	p < 0.05
15371V	Largemouth Bass	Arsenic	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.26	1	p < 0.05
15280V	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.27	1	
15284V	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.27	1	
15285V	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.2	1	
15287V	Largemouth Bass	Arsenic	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.3	1	
15565V	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.14	1	
15567V	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.35	1	
15568V	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.34	1	
15570V	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.26	1	
15571V	Largemouth Bass	Arsenic	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.25	1	
15523V	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.018	1	
15524V	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.03	1	
15525V	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.03	1	
15527V	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.069	1	
15528V	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0072	1	
15529V	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.013	1	
15531V	Largemouth Bass	Barium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.049	1	
15539V	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.012	1	
15542V	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.03	1	
15543V	Largemouth Bass	Barium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.016	1	
15560V	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.072	1	p < 0.05
15561V	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.028	1	p < 0.05
15562V	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.046	1	p < 0.05
15572V	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.032	1	p < 0.05
15574V	Largemouth Bass	Barium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.051	1	p < 0.05
15361V	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.025	1	
15362V	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.041	1	
15364V	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.046	1	
15370V	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.036	1	
15371V	Largemouth Bass	Barium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.029	1	
15280V	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.037	1	
15284V	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.03	1	
15285V	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.037	1	
15287V	Largemouth Bass	Barium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.023	1	
15565V	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.033	1	
15567V	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.055	1	
15568V	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.07	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15570V	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.067	1	
15571V	Largemouth Bass	Barium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.033	1	
15523V	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.057	0	
15524V	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.055	0	
15525V	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.048	0	
15527V	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.052	0	
15528V	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.05	0	
15529V	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.058	0	
15531V	Largemouth Bass	Beryllium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.051	0	
15539V	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.069	0	
15542V	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.056	0	
15543V	Largemouth Bass	Beryllium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.054	0	
15560V	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.049	0	
15561V	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.05	0	
15562V	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.048	0	
15572V	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.049	0	
15574V	Largemouth Bass	Beryllium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.048	0	
15361V	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.049	0	
15362V	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.049	0	
15364V	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.05	0	
15370V	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.053	0	
15371V	Largemouth Bass	Beryllium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.051	0	
15280V	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.048	0	
15284V	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.048	0	
15285V	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.048	0	
15287V	Largemouth Bass	Beryllium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.052	0	
15565V	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.049	0	
15567V	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.048	0	
15568V	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.05	0	
15570V	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.048	0	
15571V	Largemouth Bass	Beryllium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.049	0	
15523V	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.57	0	
15524V	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.55	0	
15525V	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.2	1	
15527V	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.098	1	
15528V	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.081	1	
15529V	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.58	0	
15531V	Largemouth Bass	Boron	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.51	0	
15539V	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.14	1	
15542V	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.091	1	
15543V	Largemouth Bass	Boron	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.077	1	
15560V	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.11	1	
15561V	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.071	1	
15562V	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.12	1	
15572V	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.097	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15574V	Largemouth Bass	Boron	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.073	1	
15361V	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.071	1	
15362V	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.073	1	
15364V	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.5	0	
15370V	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.53	0	
15371V	Largemouth Bass	Boron	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.51	0	
15280V	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.08	1	
15284V	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.48	0	
15285V	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.068	1	
15287V	Largemouth Bass	Boron	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.52	0	
15565V	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.16	1	
15567V	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.12	1	
15568V	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.095	1	
15570V	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.16	1	
15571V	Largemouth Bass	Boron	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.13	1	
15523V	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0021	1	
15524V	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0036	1	
15525V	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.003	1	
15527V	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0015	1	
15528V	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0011	1	
15529V	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.00093	1	
15531V	Largemouth Bass	Cadmium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.00081	1	
15539V	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0014	1	
15542V	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0019	1	
15543V	Largemouth Bass	Cadmium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0025	1	
15560V	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0036	1	
15561V	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0036	1	
15562V	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0025	1	
15572V	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0029	1	
15574V	Largemouth Bass	Cadmium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0015	1	
15361V	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0045	1	0.05 < p < 0.1
15362V	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0069	1	0.05 < p < 0.1
15364V	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0033	1	0.05 < p < 0.1
15370V	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0013	1	0.05 < p < 0.1
15371V	Largemouth Bass	Cadmium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0016	1	0.05 < p < 0.1
15280V	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0023	1	
15284V	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0029	1	
15285V	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0045	1	
15287V	Largemouth Bass	Cadmium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0038	1	
15565V	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0034	1	
15567V	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0022	1	
15568V	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0026	1	
15570V	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0011	1	
15571V	Largemouth Bass	Cadmium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0024	1	
15523V	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	410	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15524V	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	82	1	
15525V	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	130	1	
15527V	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	110	1	
15528V	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	120	1	
15529V	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	280	1	
15531V	Largemouth Bass	Calcium	Inorganic	ER_R	ERM8.0	2010	mg/kg	95	1	
15539V	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	130	1	
15542V	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	120	1	
15543V	Largemouth Bass	Calcium	Inorganic	ER_R	LERM2.0	2010	mg/kg	100	1	
15560V	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	140	1	
15561V	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	200	1	
15562V	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	100	1	
15572V	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	150	1	
15574V	Largemouth Bass	Calcium	Inorganic	ER_B	ERM3.0	2010	mg/kg	100	1	
15361V	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	94	1	
15362V	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	82	1	
15364V	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	170	1	
15370V	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	81	1	
15371V	Largemouth Bass	Calcium	Inorganic	ER_A	ERM0.9	2010	mg/kg	74	1	
15280V	Largemouth Bass	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	89	1	
15284V	Largemouth Bass	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	96	1	
15285V	Largemouth Bass	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	390	1	
15287V	Largemouth Bass	Calcium	Inorganic	CR_R	CRM8.0	2010	mg/kg	83	1	
15565V	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	81	1	
15567V	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	83	1	
15568V	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	81	1	
15570V	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	120	1	
15571V	Largemouth Bass	Calcium	Inorganic	CR_A	CRM1.5	2010	mg/kg	120	1	
15523V	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.011	1	
15524V	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.021	1	
15525V	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.017	1	
15527V	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.017	1	
15528V	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.022	1	
15529V	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.02	1	
15531V	Largemouth Bass	Chromium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.075	1	
15539V	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.028	1	
15542V	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.023	1	
15543V	Largemouth Bass	Chromium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.075	1	
15560V	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.22	1	
15561V	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.014	1	
15562V	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.015	1	
15572V	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.015	1	
15574V	Largemouth Bass	Chromium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.013	1	
15361V	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.017	1	
15362V	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.087	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15364V	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.021	1	
15370V	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0088	1	
15371V	Largemouth Bass	Chromium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.015	1	
15280V	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.019	1	
15284V	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.017	1	
15285V	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.021	1	
15287V	Largemouth Bass	Chromium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.022	1	
15565V	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.032	1	
15567V	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.019	1	
15568V	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.023	1	
15570V	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.031	1	
15571V	Largemouth Bass	Chromium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.022	1	
15523V	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.063	1	
15524V	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.021	1	
15525V	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.062	1	
15527V	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.035	1	
15528V	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.041	1	
15529V	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.041	1	
15531V	Largemouth Bass	Cobalt	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.019	1	
15539V	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.038	1	
15542V	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.031	1	
15543V	Largemouth Bass	Cobalt	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.051	1	
15560V	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.035	1	
15561V	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.042	1	
15562V	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.057	1	
15572V	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.023	1	
15574V	Largemouth Bass	Cobalt	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.028	1	
15361V	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.033	1	
15362V	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.025	1	
15364V	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.044	1	
15370V	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.026	1	
15371V	Largemouth Bass	Cobalt	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.02	1	
15280V	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.026	1	
15284V	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.044	1	
15285V	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.034	1	
15287V	Largemouth Bass	Cobalt	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.017	1	
15565V	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.025	1	
15567V	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.017	1	
15568V	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.02	1	
15570V	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.034	1	
15571V	Largemouth Bass	Cobalt	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.025	1	
15523V	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.3	1	
15524V	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.97	1	
15525V	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.2	1	
15527V	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.2	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15528V	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.1	1	
15529V	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.2	1	
15531V	Largemouth Bass	Copper	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.6	1	
15539V	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.97	1	
15542V	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.4	1	
15543V	Largemouth Bass	Copper	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.3	1	
15560V	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.5	1	
15561V	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.1	1	
15562V	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.1	1	
15572V	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.7	1	
15574V	Largemouth Bass	Copper	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.6	1	
15361V	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	
15362V	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	
15364V	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	
15370V	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.5	1	
15371V	Largemouth Bass	Copper	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.4	1	
15280V	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.4	1	
15284V	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.4	1	
15285V	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.99	1	
15287V	Largemouth Bass	Copper	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.3	1	
15565V	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.2	1	$p < 0.05$
15567V	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.9	1	$p < 0.05$
15568V	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	$p < 0.05$
15570V	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.9	1	$p < 0.05$
15571V	Largemouth Bass	Copper	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.8	1	$p < 0.05$
15523V	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	35	1	
15524V	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	27	1	
15525V	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	21	1	
15527V	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	20	1	
15528V	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	24	1	
15529V	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	22	1	
15531V	Largemouth Bass	Iron	Inorganic	ER_R	ERM8.0	2010	mg/kg	15	1	
15539V	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	13	1	
15542V	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	27	1	
15543V	Largemouth Bass	Iron	Inorganic	ER_R	LERM2.0	2010	mg/kg	17	1	
15560V	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	19	1	
15561V	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	16	1	
15562V	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	18	1	
15572V	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	21	1	
15574V	Largemouth Bass	Iron	Inorganic	ER_B	ERM3.0	2010	mg/kg	16	1	
15361V	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	16	1	
15362V	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	28	1	
15364V	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	15	1	
15370V	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	15	1	
15371V	Largemouth Bass	Iron	Inorganic	ER_A	ERM0.9	2010	mg/kg	17	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15280V	Largemouth Bass	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	14	1	
15284V	Largemouth Bass	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	16	1	
15285V	Largemouth Bass	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	19	1	
15287V	Largemouth Bass	Iron	Inorganic	CR_R	CRM8.0	2010	mg/kg	16	1	
15565V	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	26	1	
15567V	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	15	1	
15568V	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	18	1	
15570V	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	15	1	
15571V	Largemouth Bass	Iron	Inorganic	CR_A	CRM1.5	2010	mg/kg	17	1	
15523V	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.001	1	
15524V	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0016	1	
15525V	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0018	1	
15527V	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.03	1	
15528V	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.00099	1	
15529V	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.12	0	
15531V	Largemouth Bass	Lead	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.001	1	
15539V	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.14	0	
15542V	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.021	1	
15543V	Largemouth Bass	Lead	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0089	1	
15560V	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0032	1	
15561V	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0019	1	
15562V	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0014	1	
15572V	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0012	1	
15574V	Largemouth Bass	Lead	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.001	1	
15361V	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0013	1	
15362V	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.00098	1	
15364V	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.001	1	
15370V	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0017	1	
15371V	Largemouth Bass	Lead	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0016	1	
15280V	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0062	1	
15284V	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.014	1	
15285V	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.002	1	
15287V	Largemouth Bass	Lead	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0016	1	
15565V	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0056	1	
15567V	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0025	1	
15568V	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0026	1	
15570V	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0021	1	
15571V	Largemouth Bass	Lead	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0011	1	
15523V	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	180	1	
15524V	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	230	1	
15525V	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	210	1	
15527V	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	280	1	
15528V	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	240	1	
15529V	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	240	1	
15531V	Largemouth Bass	Magnesium	Inorganic	ER_R	ERM8.0	2010	mg/kg	280	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15539V	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	250	1	
15542V	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	280	1	
15543V	Largemouth Bass	Magnesium	Inorganic	ER_R	LERM2.0	2010	mg/kg	270	1	
15560V	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	230	1	
15561V	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	250	1	
15562V	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	250	1	
15572V	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	230	1	
15574V	Largemouth Bass	Magnesium	Inorganic	ER_B	ERM3.0	2010	mg/kg	260	1	
15361V	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	250	1	
15362V	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	270	1	
15364V	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	280	1	
15370V	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	240	1	
15371V	Largemouth Bass	Magnesium	Inorganic	ER_A	ERM0.9	2010	mg/kg	290	1	
15280V	Largemouth Bass	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	260	1	
15284V	Largemouth Bass	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	320	1	
15285V	Largemouth Bass	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	230	1	
15287V	Largemouth Bass	Magnesium	Inorganic	CR_R	CRM8.0	2010	mg/kg	270	1	
15565V	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	280	1	
15567V	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	280	1	
15568V	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	280	1	
15570V	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	300	1	
15571V	Largemouth Bass	Magnesium	Inorganic	CR_A	CRM1.5	2010	mg/kg	300	1	
15523V	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	3	1	
15524V	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.2	1	
15525V	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.5	1	
15527V	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	3	1	
15528V	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	2.3	1	
15529V	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.5	1	
15531V	Largemouth Bass	Manganese	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.8	1	
15539V	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	2.1	1	
15542V	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	3.8	1	
15543V	Largemouth Bass	Manganese	Inorganic	ER_R	LERM2.0	2010	mg/kg	3.7	1	
15560V	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.6	1	
15561V	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	2.3	1	
15562V	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	3.8	1	
15572V	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	3.3	1	
15574V	Largemouth Bass	Manganese	Inorganic	ER_B	ERM3.0	2010	mg/kg	4	1	
15361V	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	3.1	1	
15362V	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	4.3	1	
15364V	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	4.4	1	
15370V	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.9	1	
15371V	Largemouth Bass	Manganese	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.4	1	
15280V	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.7	1	
15284V	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	3.9	1	
15285V	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	2.8	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15287V	Largemouth Bass	Manganese	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.8	1	
15565V	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	2.9	1	
15567V	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	3.8	1	
15568V	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.6	1	
15570V	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	3.6	1	
15571V	Largemouth Bass	Manganese	Inorganic	CR_A	CRM1.5	2010	mg/kg	3.6	1	
15523V	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.025	1	
15524V	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.015	1	
15525V	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.014	1	
15527V	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.016	1	
15528V	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.016	1	
15529V	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.028	1	
15531V	Largemouth Bass	Molybdenum	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.016	1	
15539V	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.024	1	
15542V	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.017	1	
15543V	Largemouth Bass	Molybdenum	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.019	1	
15560V	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.032	1	
15561V	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.024	1	
15562V	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.029	1	
15572V	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.013	1	
15574V	Largemouth Bass	Molybdenum	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.014	1	
15361V	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.012	1	
15362V	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.03	1	
15364V	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.013	1	
15370V	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0086	1	
15371V	Largemouth Bass	Molybdenum	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.013	1	
15280V	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0052	1	
15284V	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.01	1	
15285V	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.012	1	
15287V	Largemouth Bass	Molybdenum	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.013	1	
15565V	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.027	1	$p < 0.05$
15567V	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.022	1	$p < 0.05$
15568V	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.014	1	$p < 0.05$
15570V	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.036	1	$p < 0.05$
15571V	Largemouth Bass	Molybdenum	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.022	1	$p < 0.05$
15523V	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.57	0	
15524V	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.55	0	
15525V	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.48	0	
15527V	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.52	0	
15528V	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.01	1	
15529V	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.014	1	
15531V	Largemouth Bass	Nickel	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0081	1	
15539V	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.69	0	
15542V	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.56	0	
15543V	Largemouth Bass	Nickel	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.54	0	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15560V	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.49	0	
15561V	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.5	0	
15562V	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.48	0	
15572V	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.49	0	
15574V	Largemouth Bass	Nickel	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.48	0	
15361V	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.49	0	
15362V	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.49	0	
15364V	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.5	0	
15370V	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.53	0	
15371V	Largemouth Bass	Nickel	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.51	0	
15280V	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.48	0	
15284V	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.48	0	
15285V	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.48	0	
15287V	Largemouth Bass	Nickel	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.52	0	
15565V	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.49	0	
15567V	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.48	0	
15568V	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.5	0	
15570V	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.48	0	
15571V	Largemouth Bass	Nickel	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.49	0	
15523V	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1900	1	
15524V	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2600	1	
15525V	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3100	1	
15527V	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3000	1	
15528V	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	2500	1	
15529V	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	3200	1	
15531V	Largemouth Bass	Potassium	Inorganic	ER_R	ERM8.0	2010	mg/kg	3000	1	
15539V	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2900	1	
15542V	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	2900	1	
15543V	Largemouth Bass	Potassium	Inorganic	ER_R	LERM2.0	2010	mg/kg	3000	1	
15560V	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3200	1	0.05 < p < 0.1
15561V	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3300	1	0.05 < p < 0.1
15562V	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3000	1	0.05 < p < 0.1
15572V	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3100	1	0.05 < p < 0.1
15574V	Largemouth Bass	Potassium	Inorganic	ER_B	ERM3.0	2010	mg/kg	3300	1	0.05 < p < 0.1
15361V	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3300	1	
15362V	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2800	1	
15364V	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2900	1	
15370V	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	2900	1	
15371V	Largemouth Bass	Potassium	Inorganic	ER_A	ERM0.9	2010	mg/kg	3400	1	
15280V	Largemouth Bass	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2800	1	
15284V	Largemouth Bass	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	3000	1	
15285V	Largemouth Bass	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	2500	1	
15287V	Largemouth Bass	Potassium	Inorganic	CR_R	CRM8.0	2010	mg/kg	3000	1	
15565V	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	2900	1	
15567V	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3100	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15568V	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3300	1	
15570V	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3200	1	
15571V	Largemouth Bass	Potassium	Inorganic	CR_A	CRM1.5	2010	mg/kg	3100	1	
15523V	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.97	1	
15524V	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.8	1	
15525V	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.1	1	
15527V	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1.1	1	
15528V	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.95	1	
15529V	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1	1	
15531V	Largemouth Bass	Selenium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1.1	1	
15539V	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.99	1	
15542V	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.91	1	
15543V	Largemouth Bass	Selenium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.94	1	
15560V	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.3	1	0.05 < p < 0.1
15561V	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.2	1	0.05 < p < 0.1
15562V	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.1	1	0.05 < p < 0.1
15572V	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.1	1	0.05 < p < 0.1
15574V	Largemouth Bass	Selenium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1.2	1	0.05 < p < 0.1
15361V	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	p < 0.05
15362V	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.7	1	p < 0.05
15364V	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.2	1	p < 0.05
15370V	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	p < 0.05
15371V	Largemouth Bass	Selenium	Inorganic	ER_A	ERM0.9	2010	mg/kg	1.3	1	p < 0.05
15280V	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.1	1	
15284V	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.1	1	
15285V	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.5	1	
15287V	Largemouth Bass	Selenium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1.4	1	
15565V	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.2	1	
15567V	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.91	1	
15568V	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.77	1	
15570V	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.5	1	
15571V	Largemouth Bass	Selenium	Inorganic	CR_A	CRM1.5	2010	mg/kg	1.3	1	
15523V	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.00091	1	
15524V	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.00098	1	
15525V	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0071	1	
15527V	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0035	1	
15528V	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.00069	1	
15529V	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0007	1	
15531V	Largemouth Bass	Silver	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.0026	1	
15539V	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0019	1	
15542V	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0023	1	
15543V	Largemouth Bass	Silver	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0022	1	
15560V	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.00099	1	
15561V	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0014	1	
15562V	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0013	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15572V	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0015	1	
15574V	Largemouth Bass	Silver	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.0019	1	
15361V	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.049	0	
15362V	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.049	0	
15364V	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0009	1	
15370V	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0011	1	
15371V	Largemouth Bass	Silver	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.051	0	
15280V	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.00038	1	
15284V	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.00067	1	
15285V	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.048	0	
15287V	Largemouth Bass	Silver	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.00042	1	
15565V	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.00069	1	
15567V	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.00087	1	
15568V	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.05	0	
15570V	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.048	0	
15571V	Largemouth Bass	Silver	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.00069	1	
15523V	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1500	1	
15524V	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	700	1	
15525V	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	1000	1	
15527V	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	940	1	
15528V	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	1000	1	
15529V	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	960	1	
15531V	Largemouth Bass	Sodium	Inorganic	ER_R	ERM8.0	2010	mg/kg	870	1	
15539V	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	860	1	
15542V	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	820	1	
15543V	Largemouth Bass	Sodium	Inorganic	ER_R	LERM2.0	2010	mg/kg	900	1	
15560V	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1100	1	
15561V	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1100	1	
15562V	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	870	1	
15572V	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1000	1	
15574V	Largemouth Bass	Sodium	Inorganic	ER_B	ERM3.0	2010	mg/kg	1100	1	
15361V	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	830	1	
15362V	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	870	1	
15364V	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	830	1	
15370V	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	840	1	
15371V	Largemouth Bass	Sodium	Inorganic	ER_A	ERM0.9	2010	mg/kg	870	1	
15280V	Largemouth Bass	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	890	1	
15284V	Largemouth Bass	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	870	1	
15285V	Largemouth Bass	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	1100	1	
15287V	Largemouth Bass	Sodium	Inorganic	CR_R	CRM8.0	2010	mg/kg	840	1	
15565V	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	910	1	
15567V	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	870	1	
15568V	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	960	1	
15570V	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	900	1	
15571V	Largemouth Bass	Sodium	Inorganic	CR_A	CRM1.5	2010	mg/kg	920	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15523V	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.011	1	
15524V	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.011	1	
15525V	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.011	1	
15527V	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0062	1	
15528V	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.005	1	
15529V	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.01	1	
15531V	Largemouth Bass	Thallium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.016	1	
15539V	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.0085	1	
15542V	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.018	1	
15543V	Largemouth Bass	Thallium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.016	1	
15560V	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.045	1	p < 0.05
15561V	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.014	1	p < 0.05
15562V	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.017	1	p < 0.05
15572V	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.031	1	p < 0.05
15574V	Largemouth Bass	Thallium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.047	1	p < 0.05
15361V	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.041	1	p < 0.05
15362V	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.024	1	p < 0.05
15364V	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.029	1	p < 0.05
15370V	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.023	1	p < 0.05
15371V	Largemouth Bass	Thallium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.06	1	p < 0.05
15280V	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.019	1	
15284V	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.017	1	
15285V	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.0069	1	
15287V	Largemouth Bass	Thallium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.021	1	
15565V	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.0056	1	
15567V	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.012	1	
15568V	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.033	1	
15570V	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.024	1	
15571V	Largemouth Bass	Thallium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.021	1	
15523V	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.014	1	
15524V	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.015	1	
15525V	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.19	0	
15527V	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.21	0	
15528V	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.021	1	
15529V	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.029	1	
15531V	Largemouth Bass	Vanadium	Inorganic	ER_R	ERM8.0	2010	mg/kg	0.023	1	
15539V	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.27	0	
15542V	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.22	0	
15543V	Largemouth Bass	Vanadium	Inorganic	ER_R	LERM2.0	2010	mg/kg	0.21	0	
15560V	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.2	0	
15561V	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.011	1	
15562V	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	0	
15572V	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.2	0	
15574V	Largemouth Bass	Vanadium	Inorganic	ER_B	ERM3.0	2010	mg/kg	0.19	0	
15361V	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.2	0	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15362V	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.0034	1	
15364V	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.2	0	
15370V	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.21	0	
15371V	Largemouth Bass	Vanadium	Inorganic	ER_A	ERM0.9	2010	mg/kg	0.2	0	
15280V	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.19	0	
15284V	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.19	0	
15285V	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.19	0	
15287V	Largemouth Bass	Vanadium	Inorganic	CR_R	CRM8.0	2010	mg/kg	0.21	0	
15565V	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.2	0	
15567V	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.19	0	
15568V	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.2	0	
15570V	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.19	0	
15571V	Largemouth Bass	Vanadium	Inorganic	CR_A	CRM1.5	2010	mg/kg	0.2	0	
15523V	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	57	1	
15524V	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	41	1	
15525V	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	27	1	
15527V	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	28	1	
15528V	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	26	1	
15529V	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	26	1	
15531V	Largemouth Bass	Zinc	Inorganic	ER_R	ERM8.0	2010	mg/kg	30	1	
15539V	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	26	1	
15542V	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	32	1	
15543V	Largemouth Bass	Zinc	Inorganic	ER_R	LERM2.0	2010	mg/kg	29	1	
15560V	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	27	1	
15561V	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	25	1	
15562V	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	32	1	
15572V	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	31	1	
15574V	Largemouth Bass	Zinc	Inorganic	ER_B	ERM3.0	2010	mg/kg	30	1	
15361V	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	29	1	
15362V	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	31	1	
15364V	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	33	1	
15370V	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	33	1	
15371V	Largemouth Bass	Zinc	Inorganic	ER_A	ERM0.9	2010	mg/kg	35	1	
15280V	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	33	1	
15284V	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	31	1	
15285V	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	27	1	
15287V	Largemouth Bass	Zinc	Inorganic	CR_R	CRM8.0	2010	mg/kg	31	1	
15565V	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	34	1	
15567V	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	34	1	
15568V	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	32	1	

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Appendix D. TVA Ovary Individual Samples

Tennessee Valley Authority Kingston, Tennessee

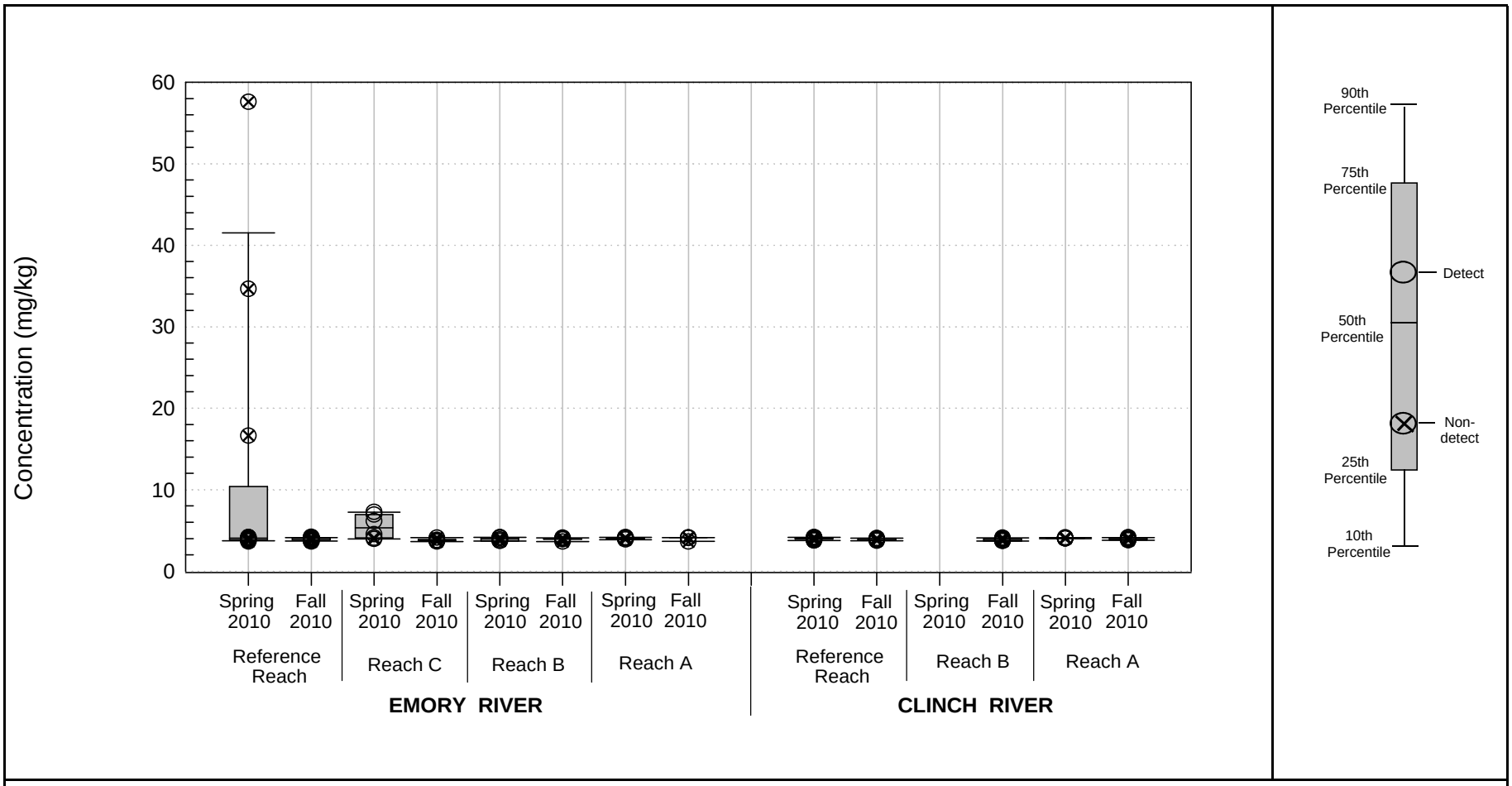
Sample ID	Species	Analyte Name	Parameter Group	Reach	Location	Year	Units (wet weight)	Result	Qualifier (0 = ND)	Greater than Reference? (2010)
15570V	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	36	1	
15571V	Largemouth Bass	Zinc	Inorganic	CR_A	CRM1.5	2010	mg/kg	30	1	

Notes:

CR_A - Clinch Reach A
CRM - Clinch River Mile
CR_R - Clinch River Reference Reach
ER_A - Emory Reach A
ER_B - Emory Reach B
ERM - Emory River Mile
ER_R - Emory River Reference Reach
LERM - Little Emory River Mile
mg/kg - milligrams per kilogram
ND - non-detect
TVA - Tennessee Valley Authority

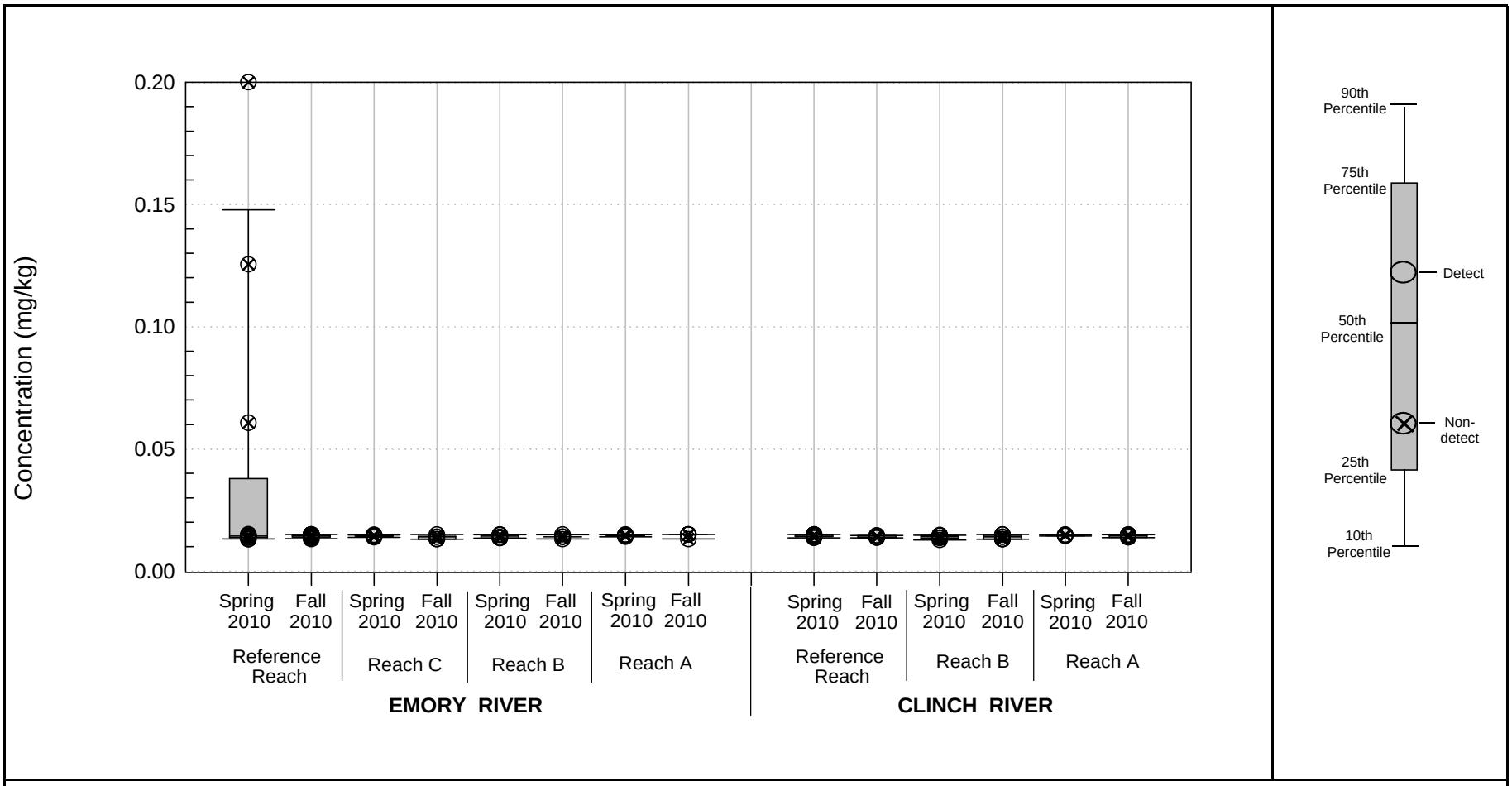
Appendix E

Box Plots Presenting Fillet Tissue Concentrations of Analytes in Bluegill, Channel Catfish, and Largemouth Bass



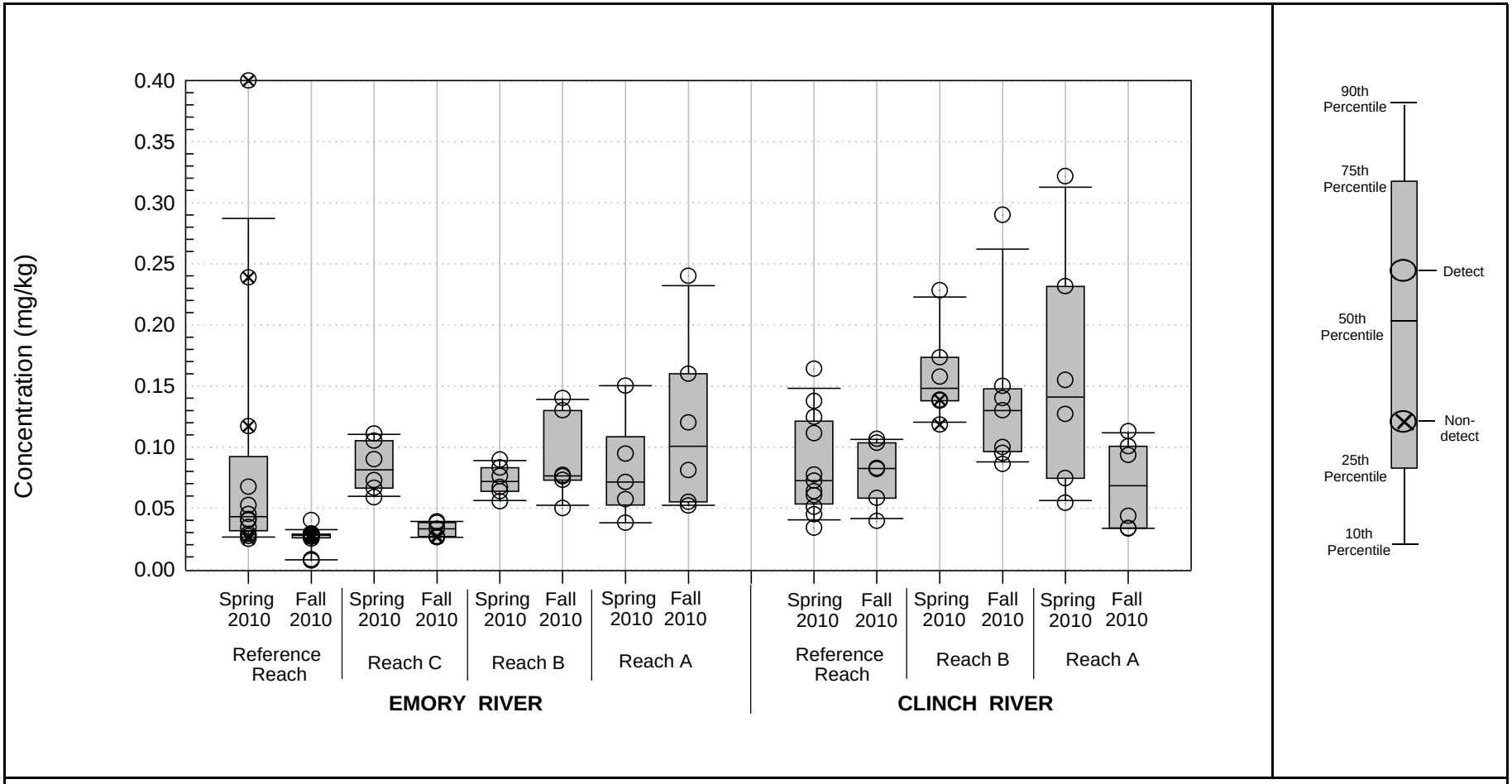
ARCADIS

Fillet
Bluegill - Aluminum
TVA Kingston



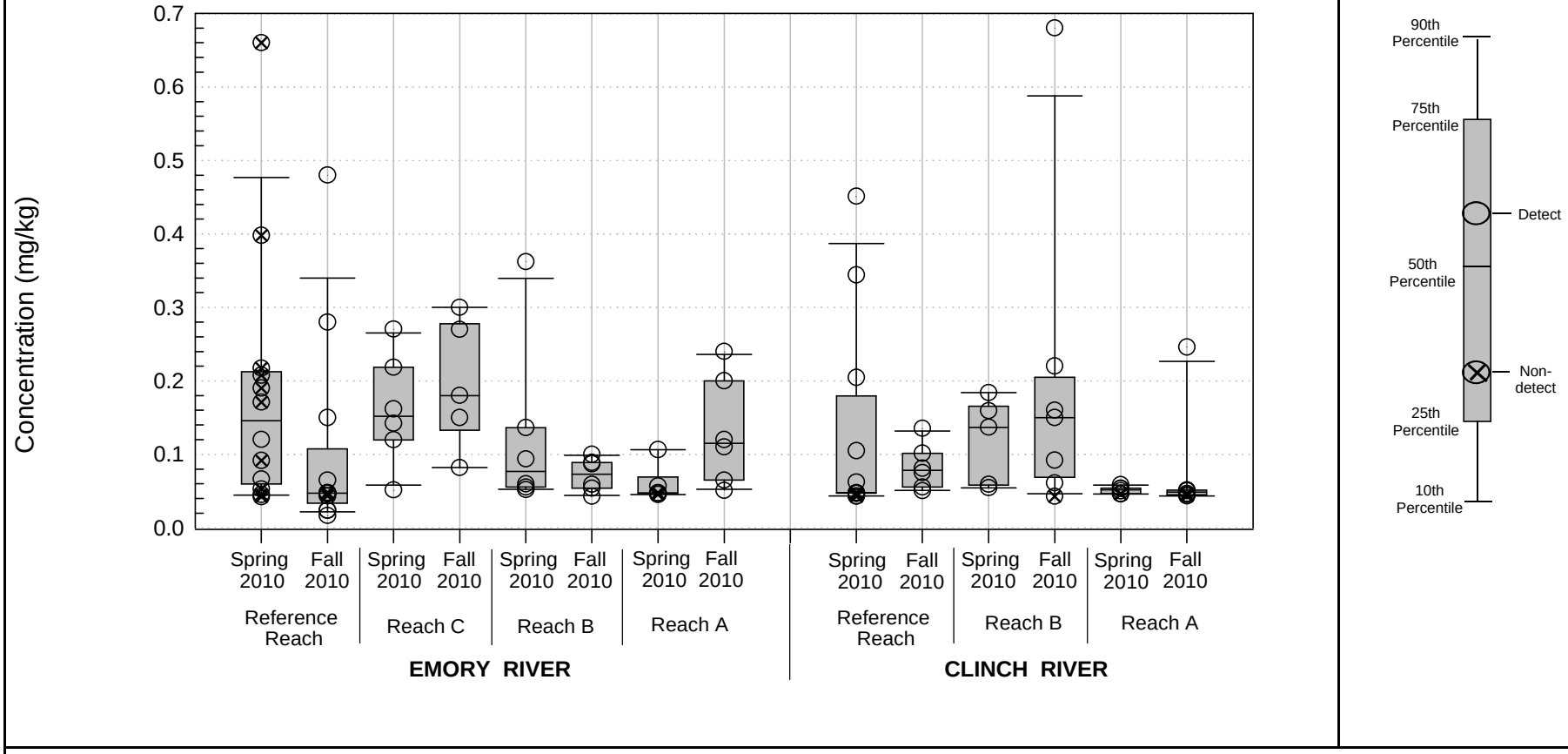
ARCADIS

Fillet
Bluegill - Antimony
TVA Kingston



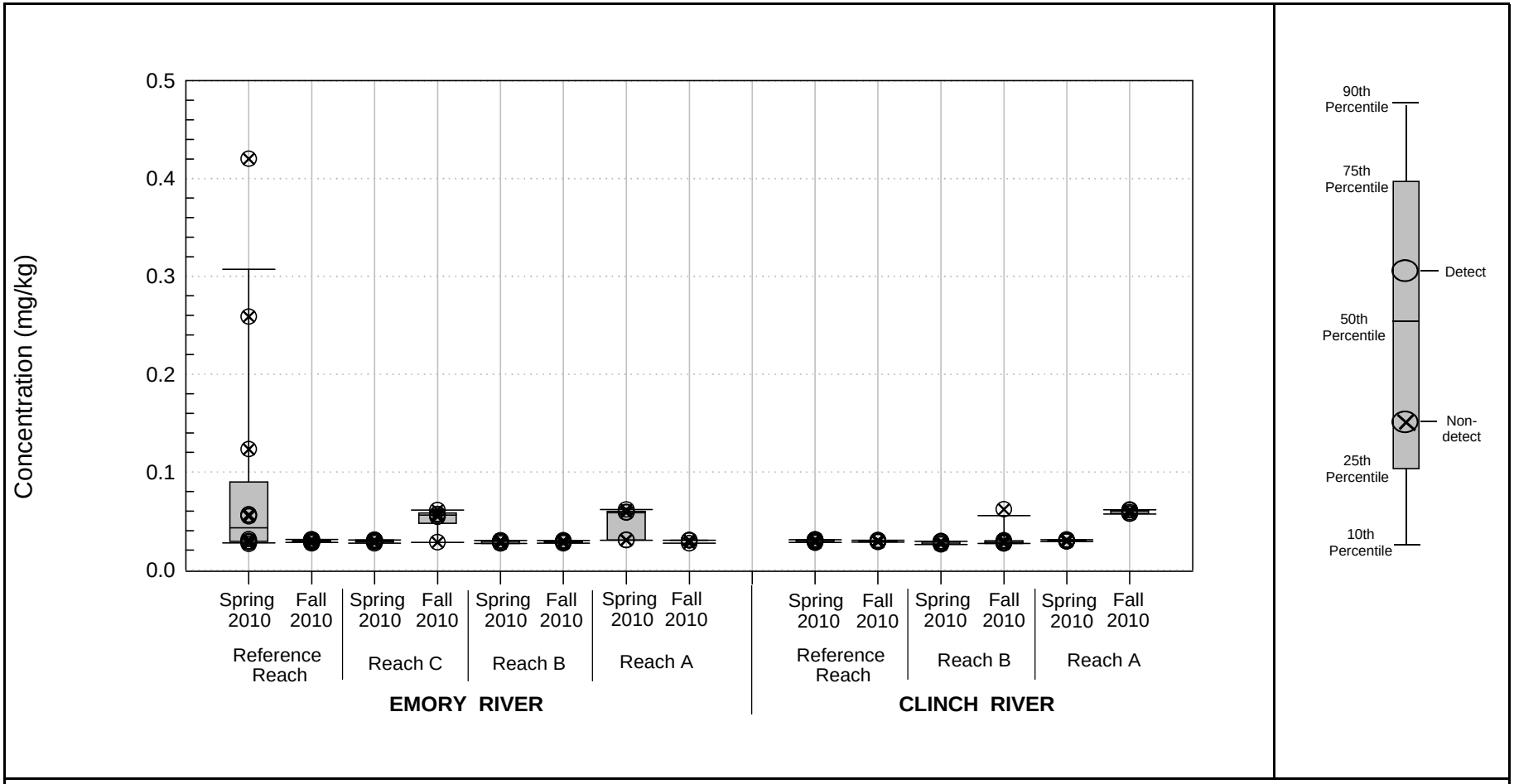
ARCADIS

Fillet
Bluegill - Arsenic
TVA Kingston



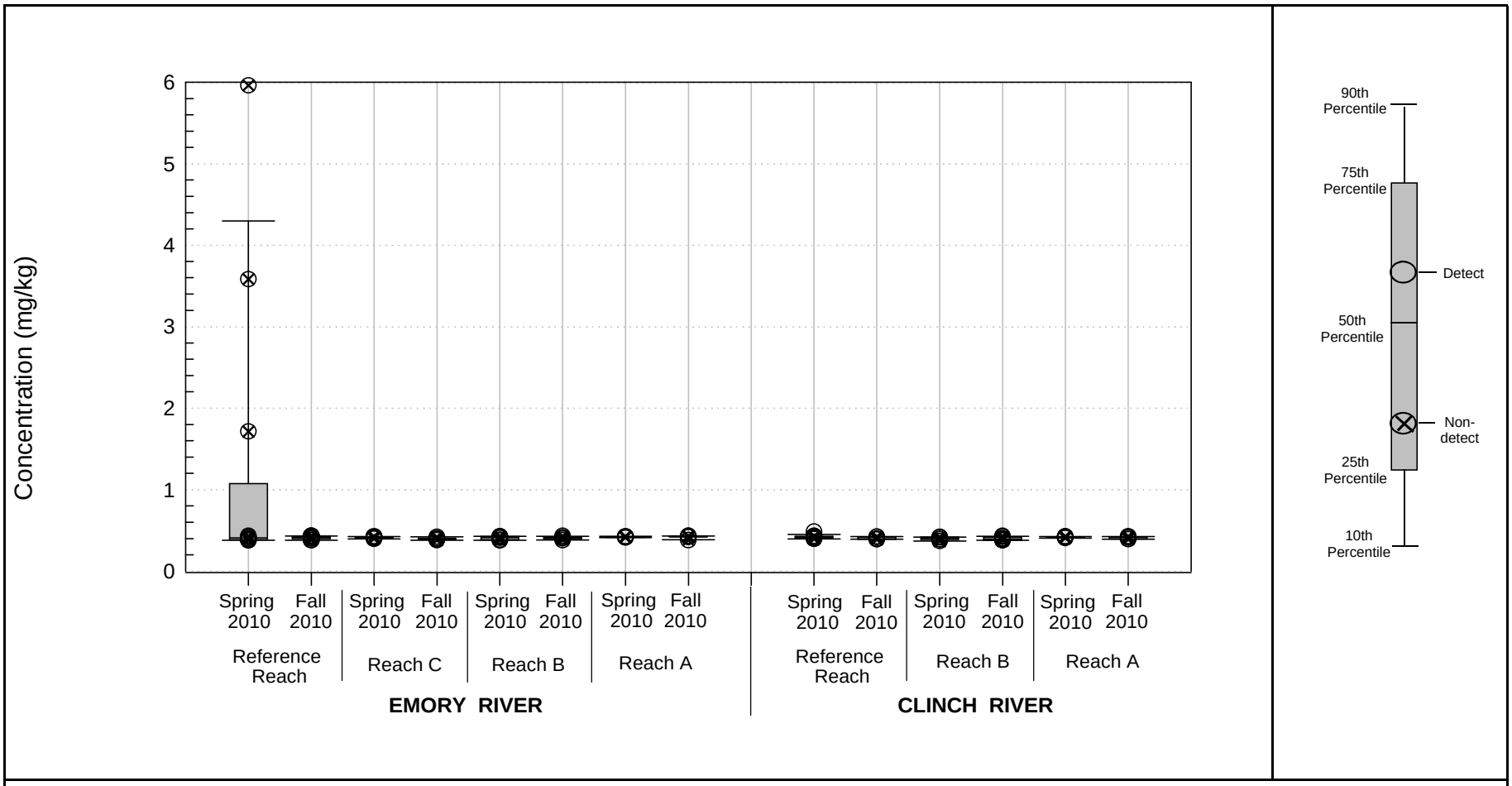
ARCADIS

Fillet
Bluegill - Barium
TVA Kingston



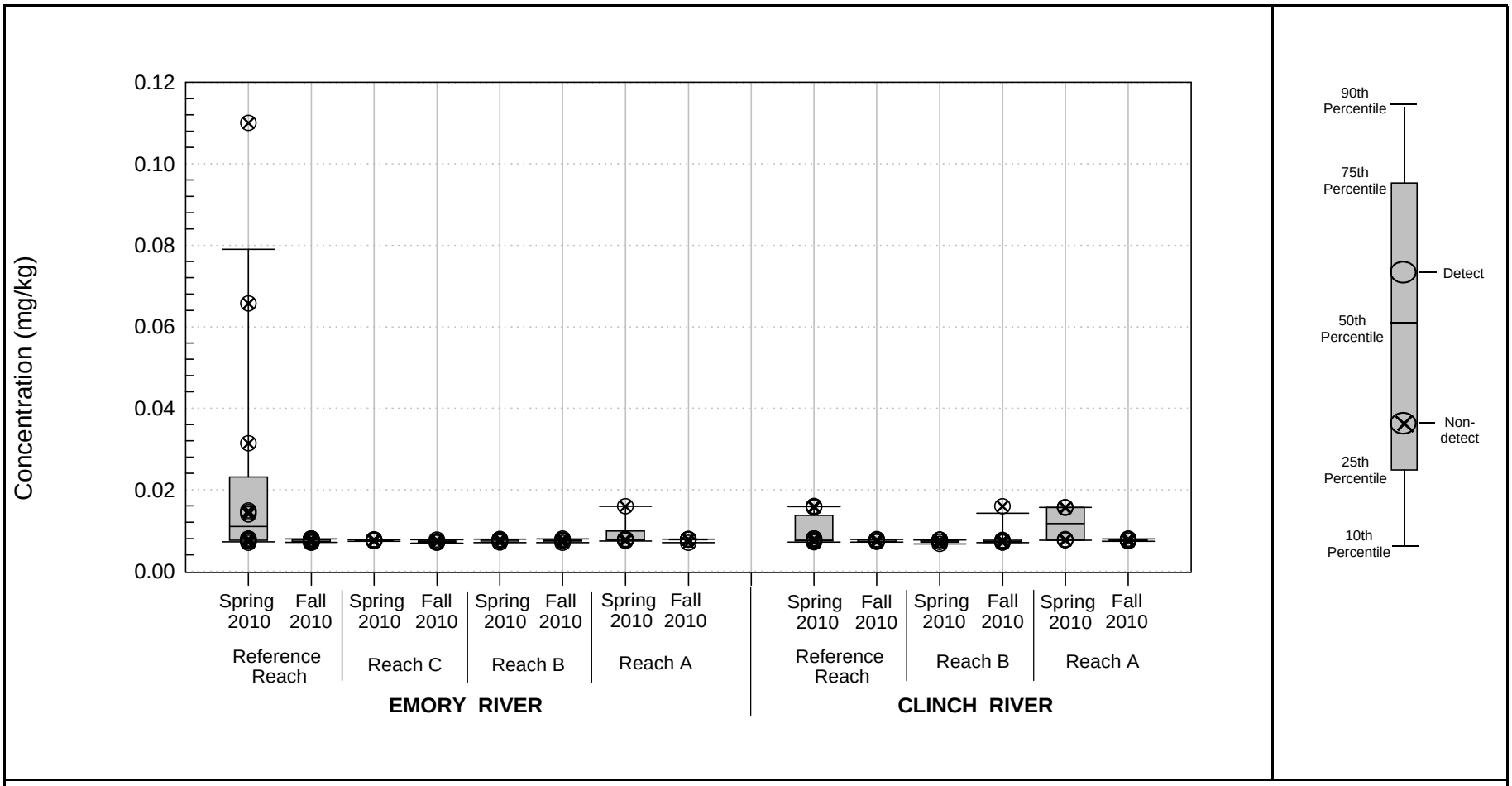
ARCADIS

Fillet
Bluegill - Beryllium
TVA Kingston



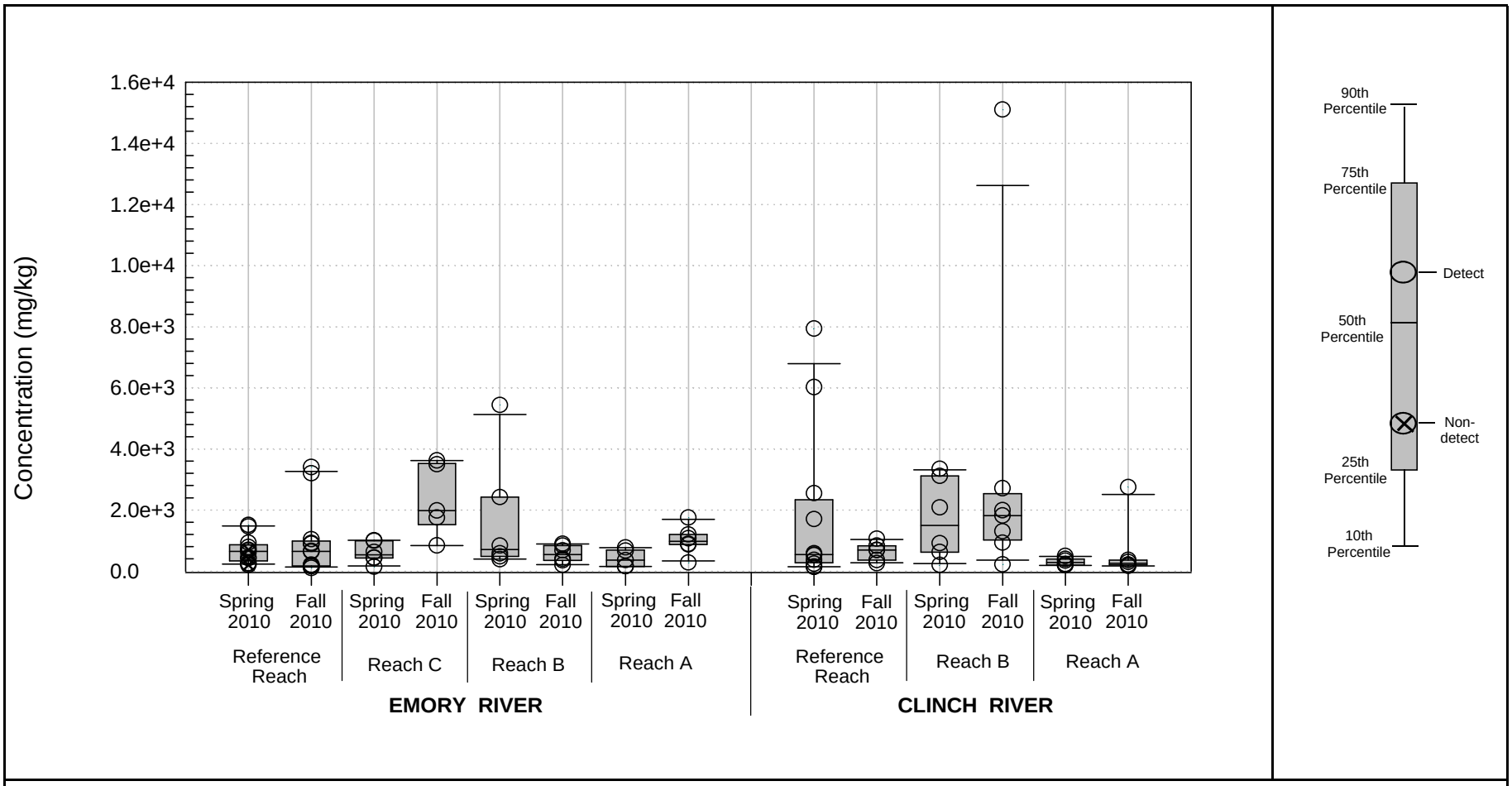
ARCADIS

Fillet
Bluegill - Boron
TVA Kingston



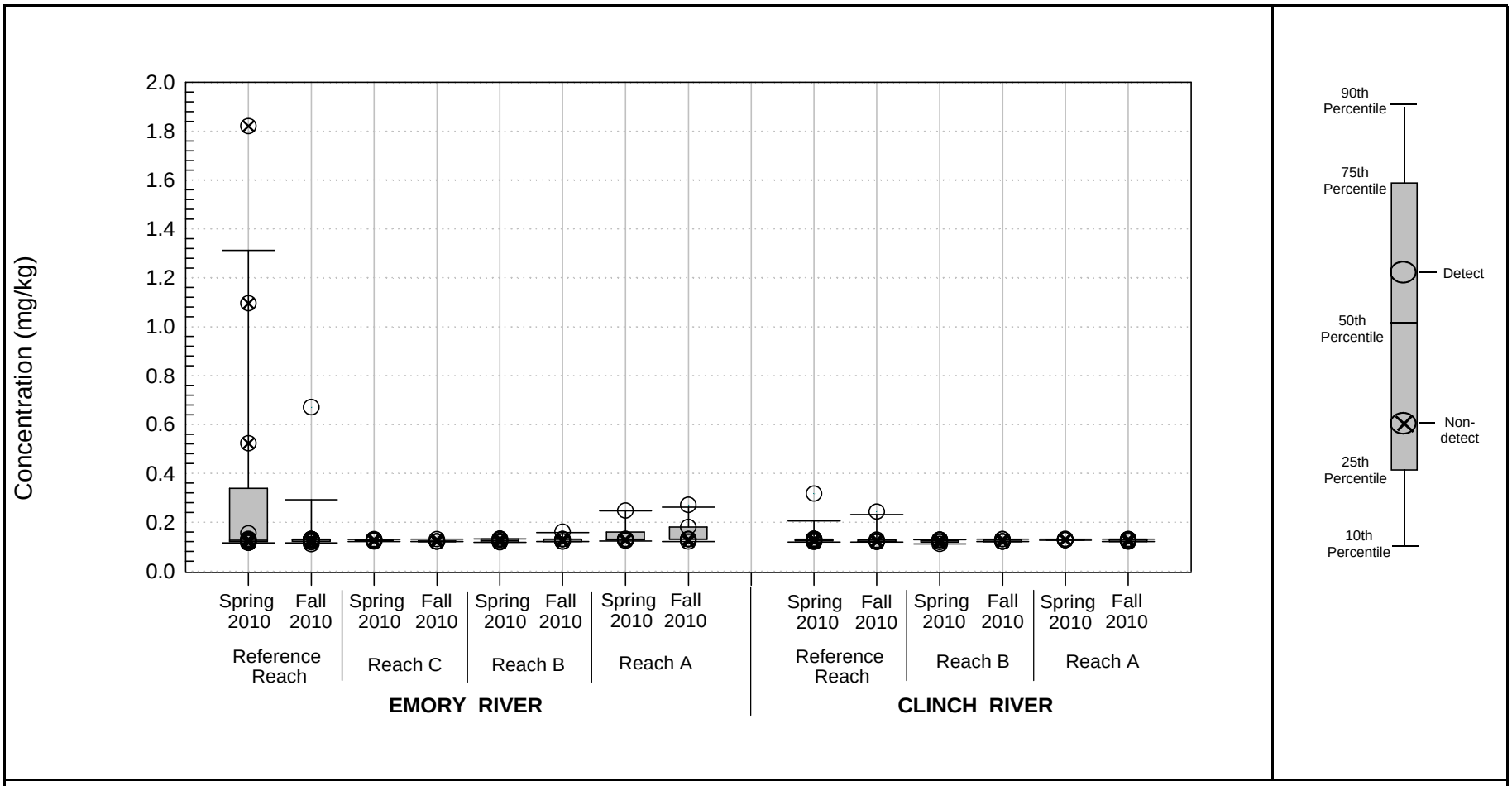
ARCADIS

Fillet
Bluegill - Cadmium
TVA Kingston



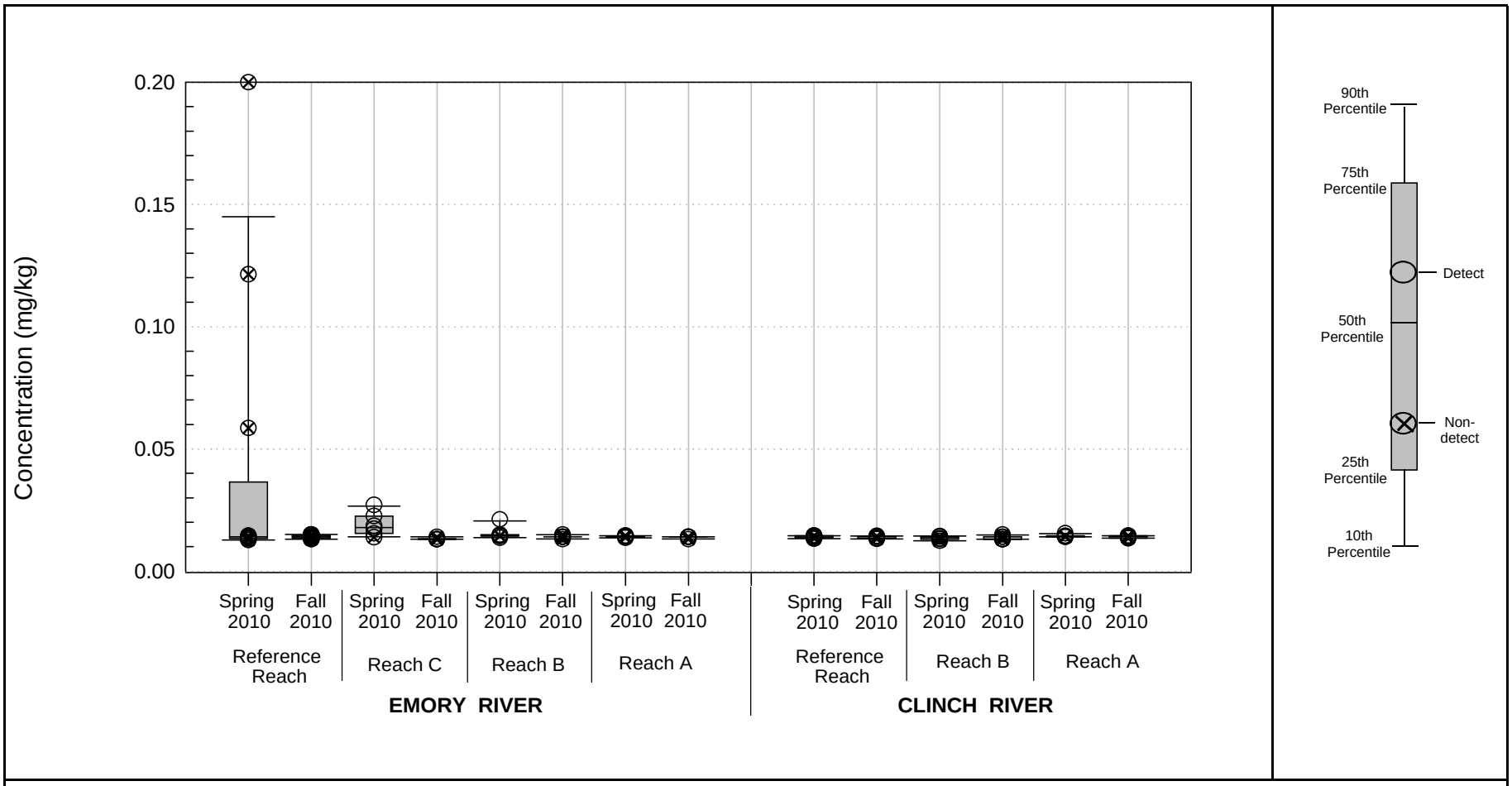
ARCADIS

Fillet
Bluegill - Calcium
TVA Kingston



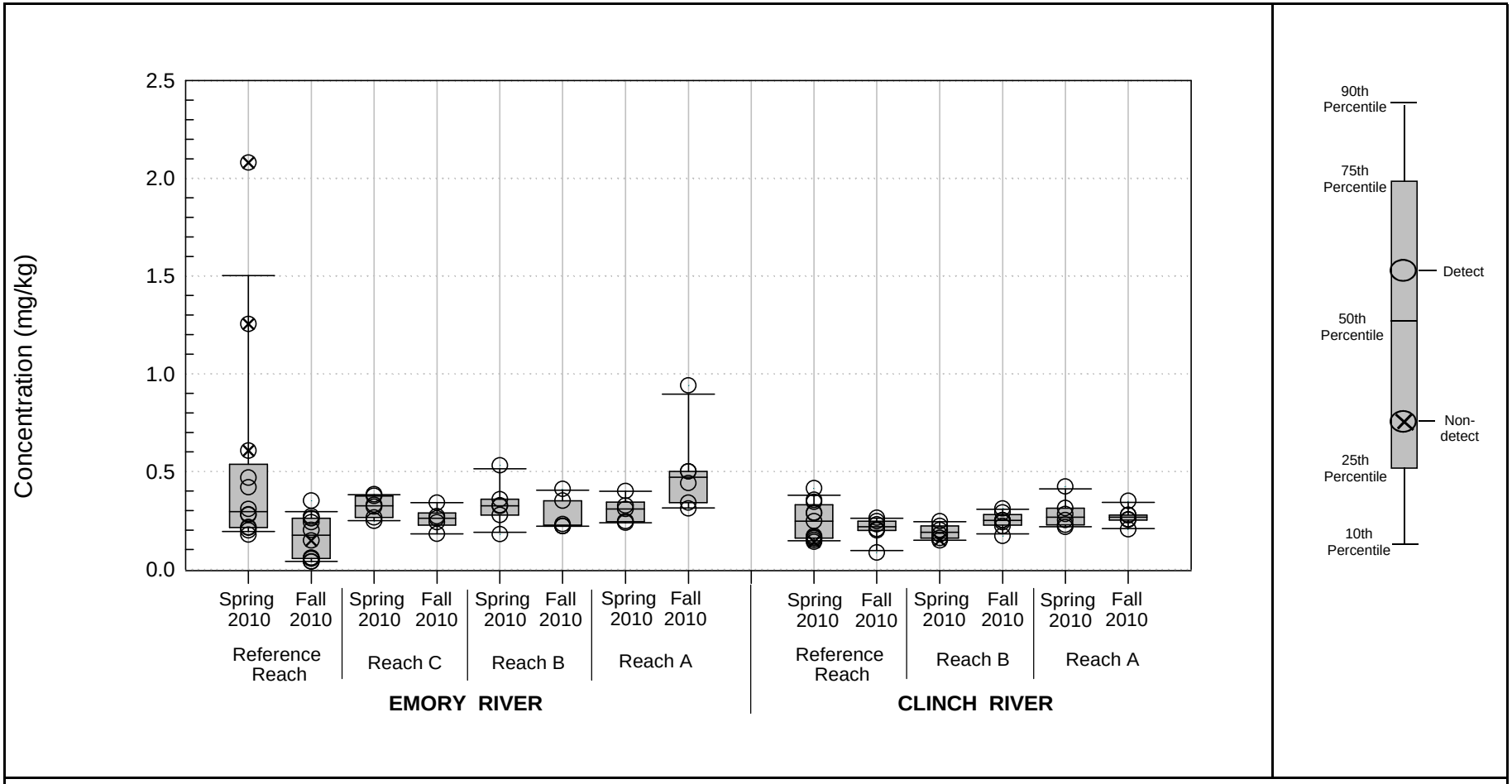
ARCADIS

Fillet
Bluegill - Chromium
TVA Kingston



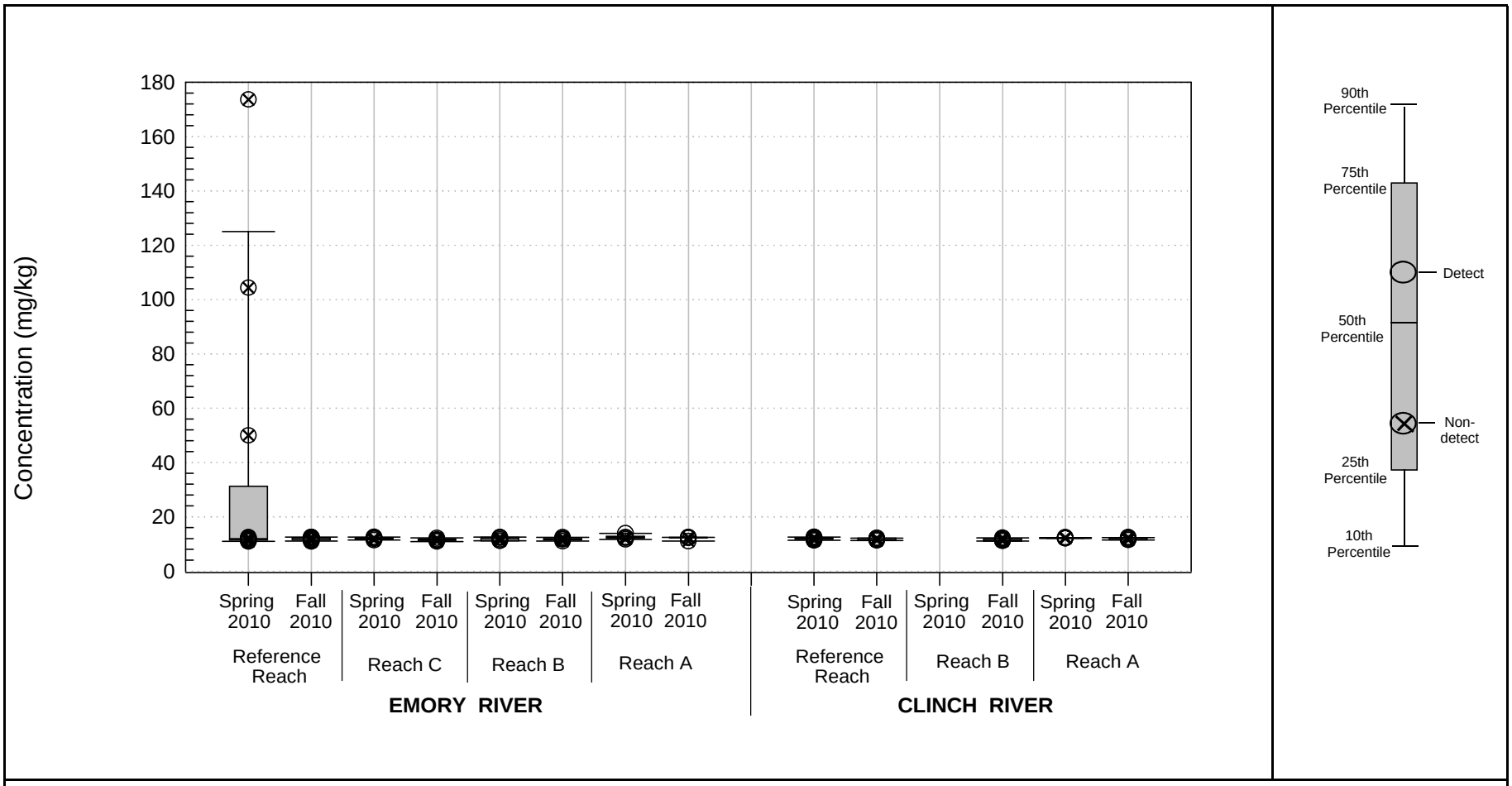
ARCADIS

Fillet
Bluegill - Cobalt
TVA Kingston



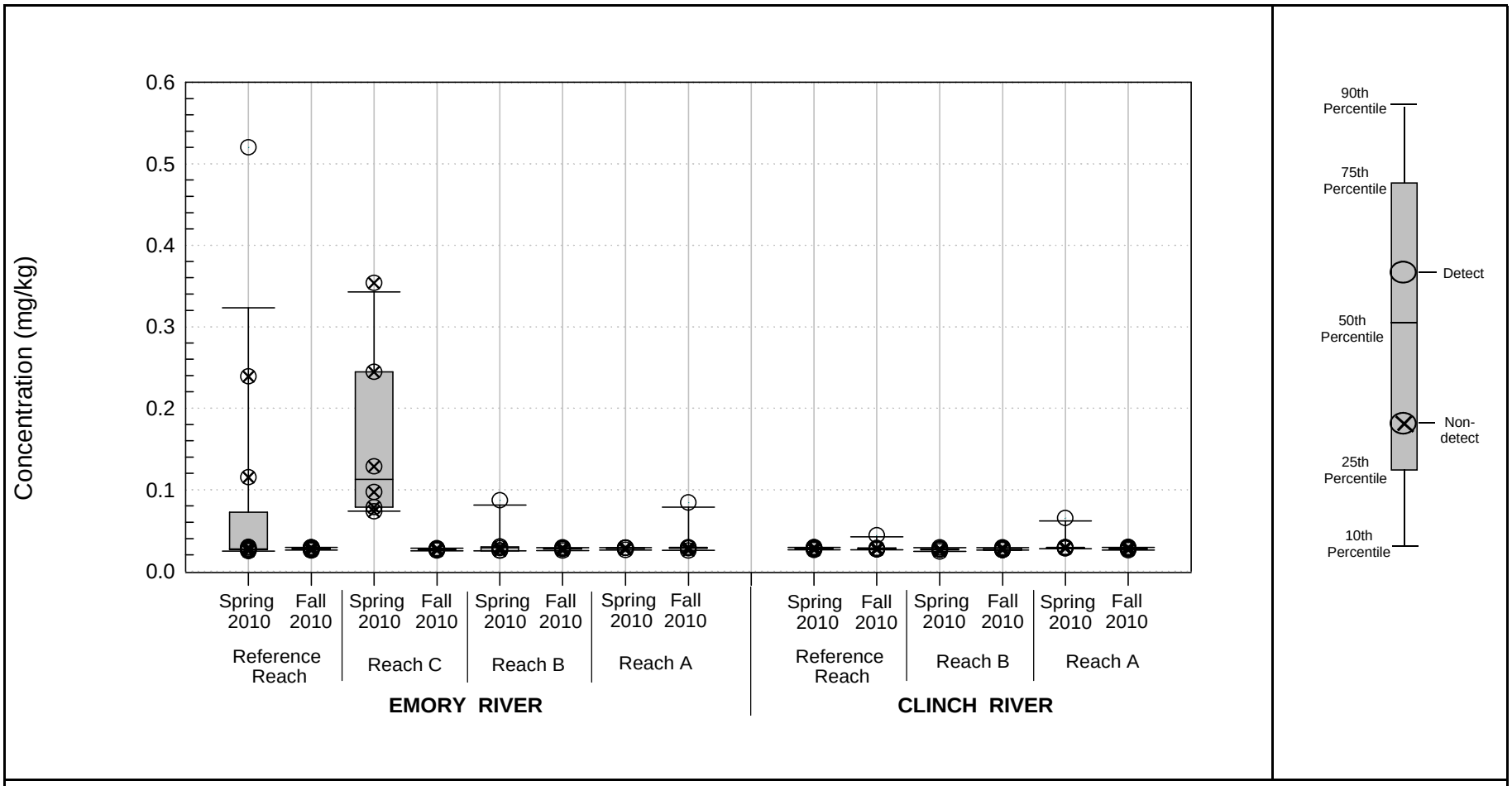
ARCADIS

Fillet
Bluegill - Copper
TVA Kingston



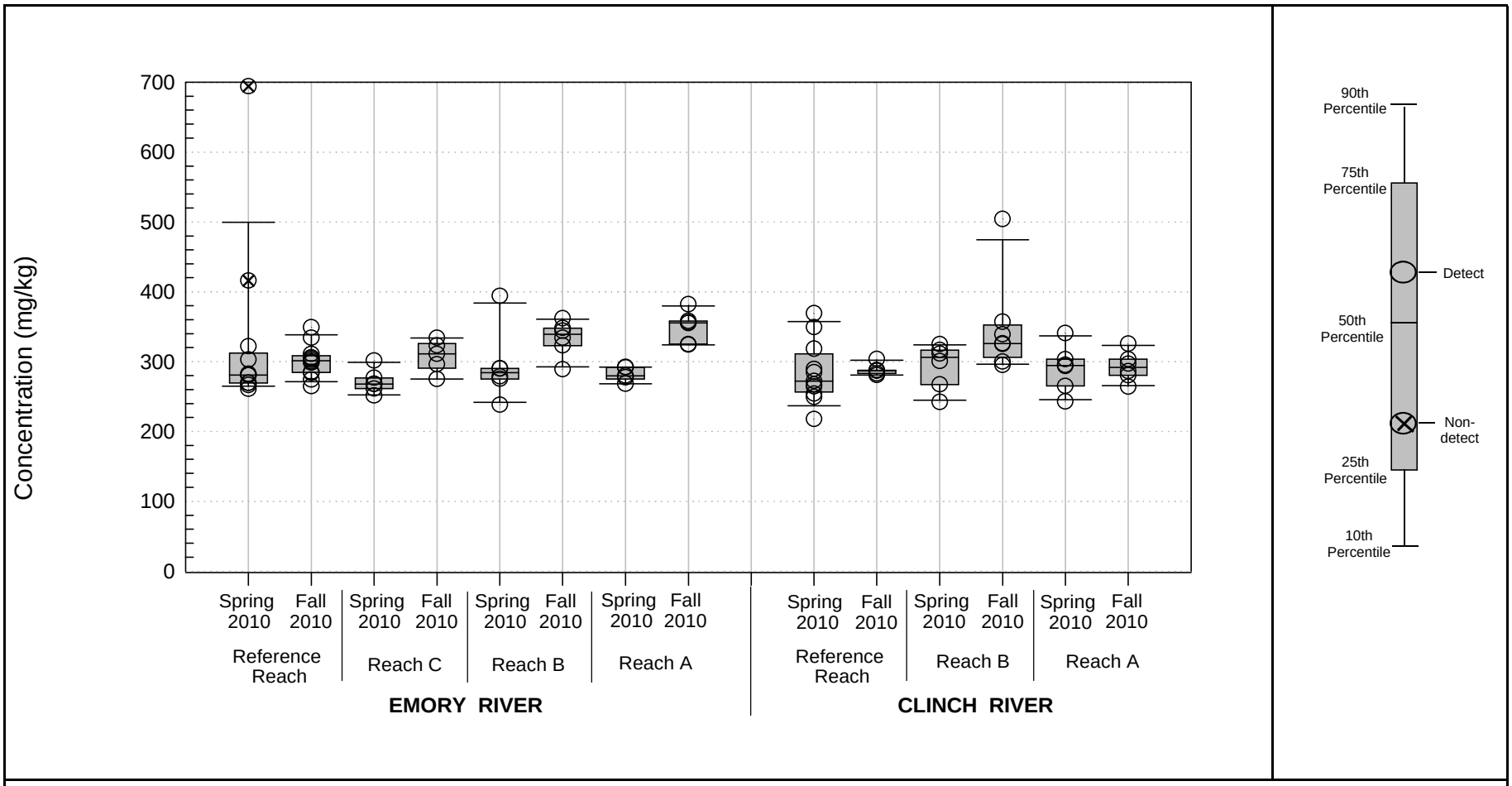
ARCADIS

Fillet
Bluegill - Iron
TVA Kingston



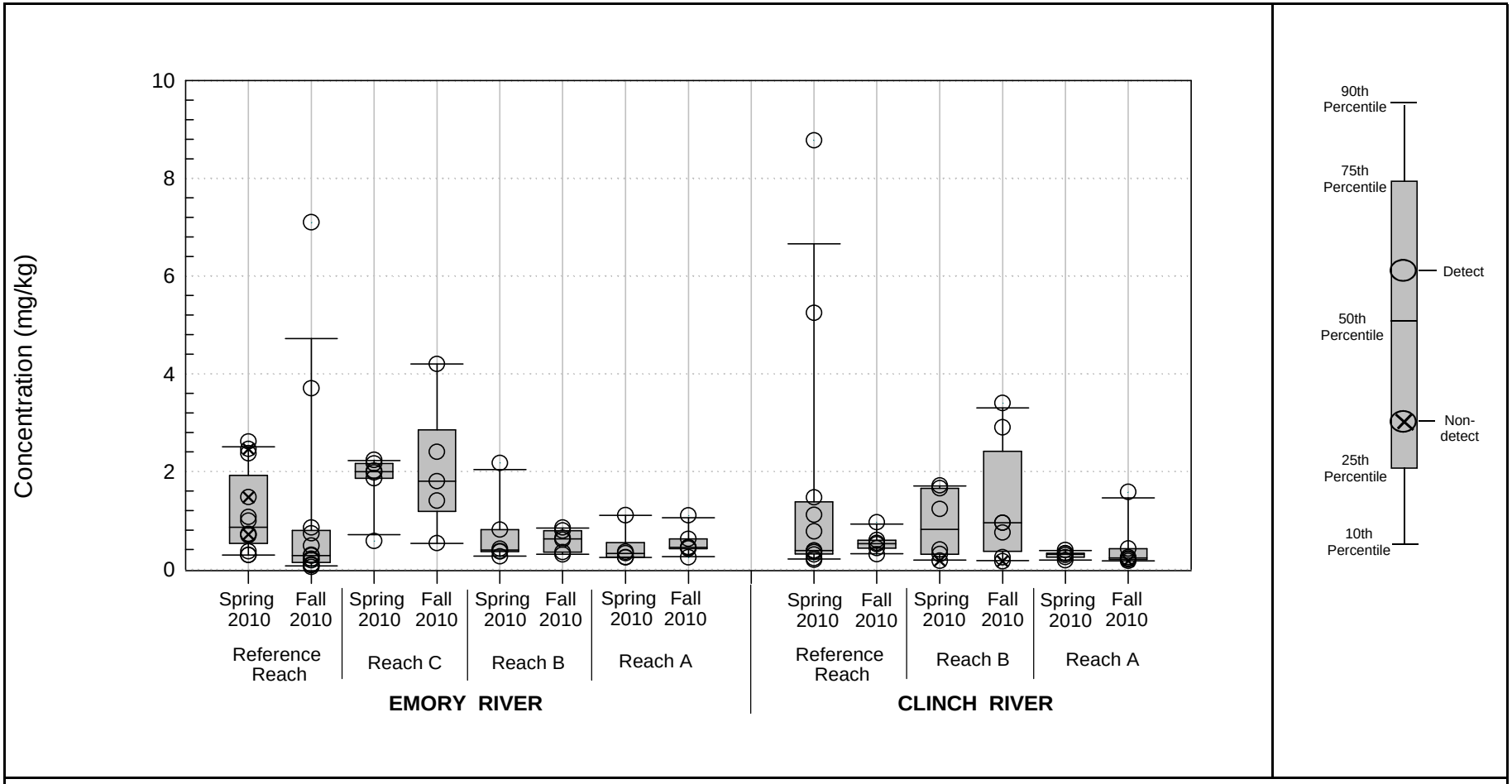
ARCADIS

Fillet
Bluegill - Lead
TVA Kingston



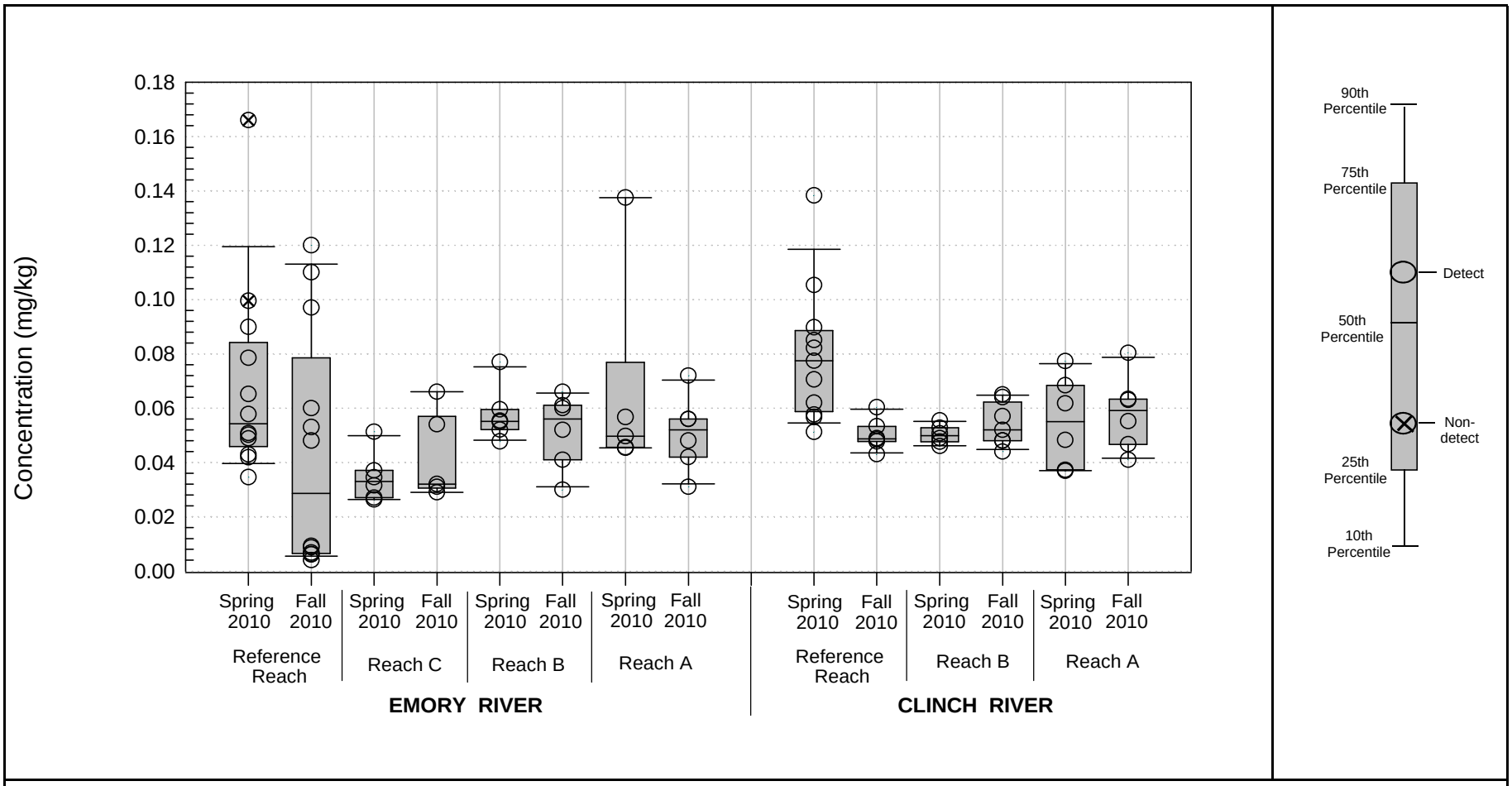
ARCADIS

Fillet
Bluegill - Magnesium
TVA Kingston



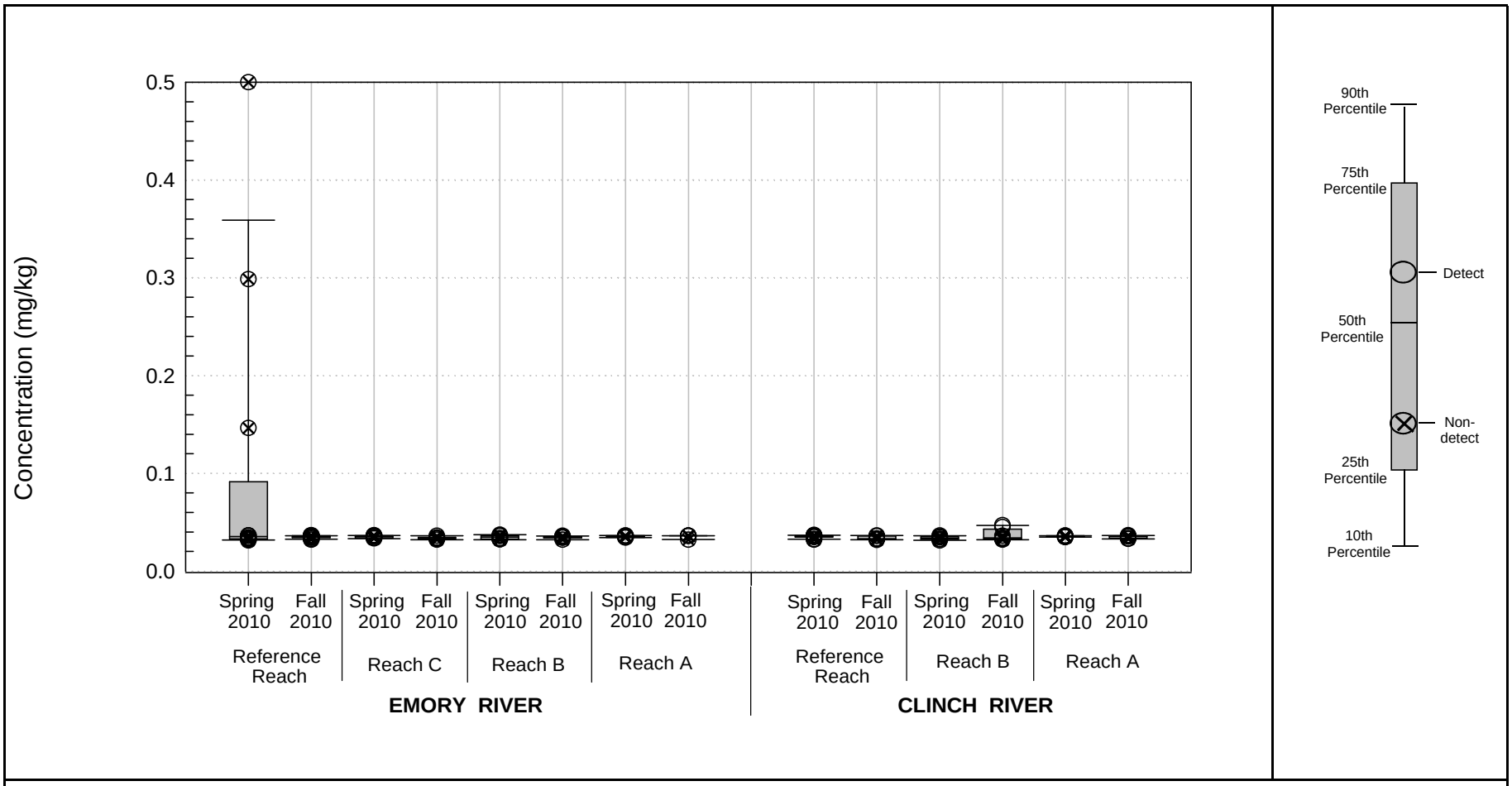
ARCADIS

Fillet
Bluegill - Manganese
TVA Kingston



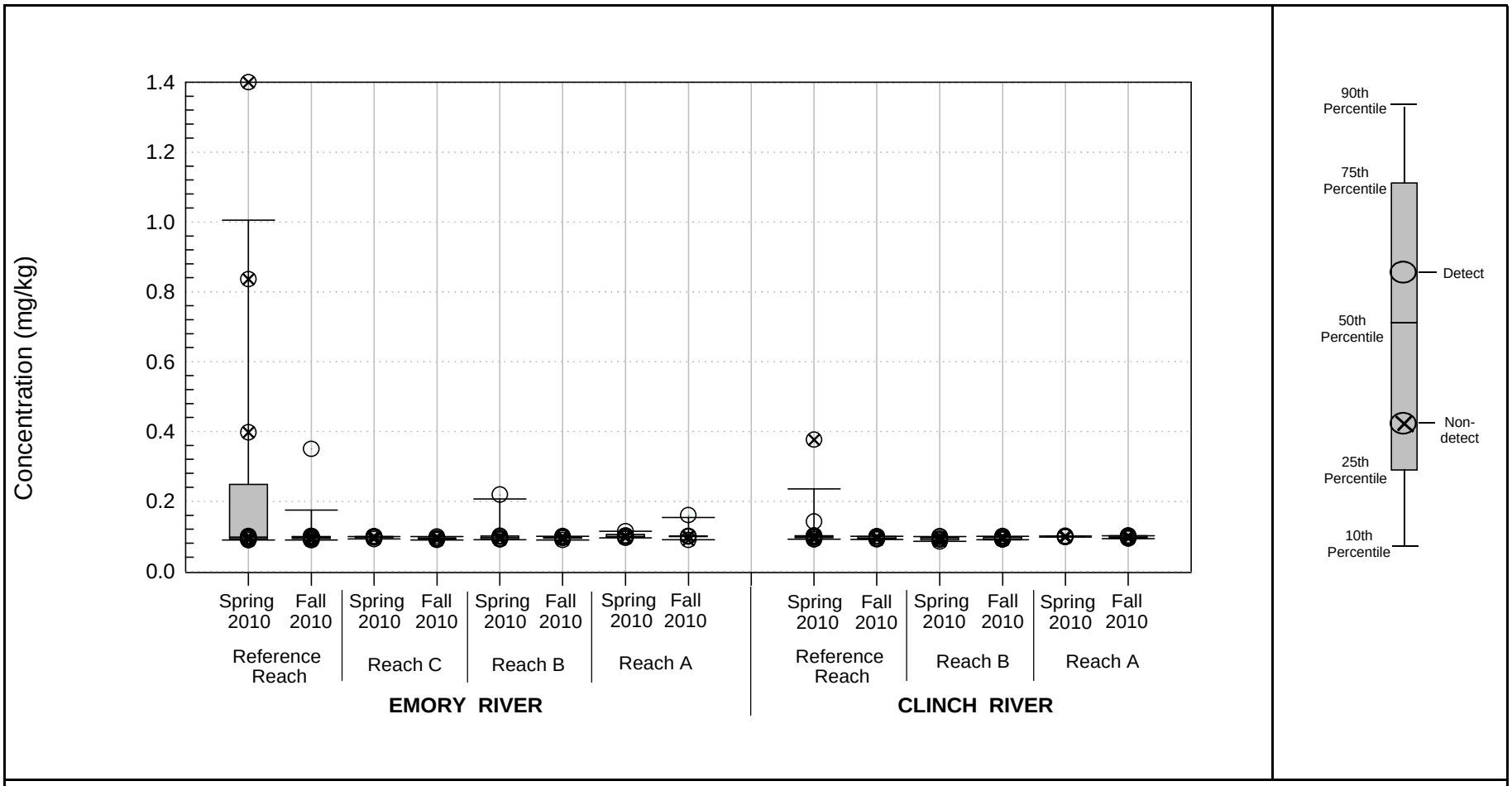
ARCADIS

Fillet
Bluegill - Mercury
TVA Kingston



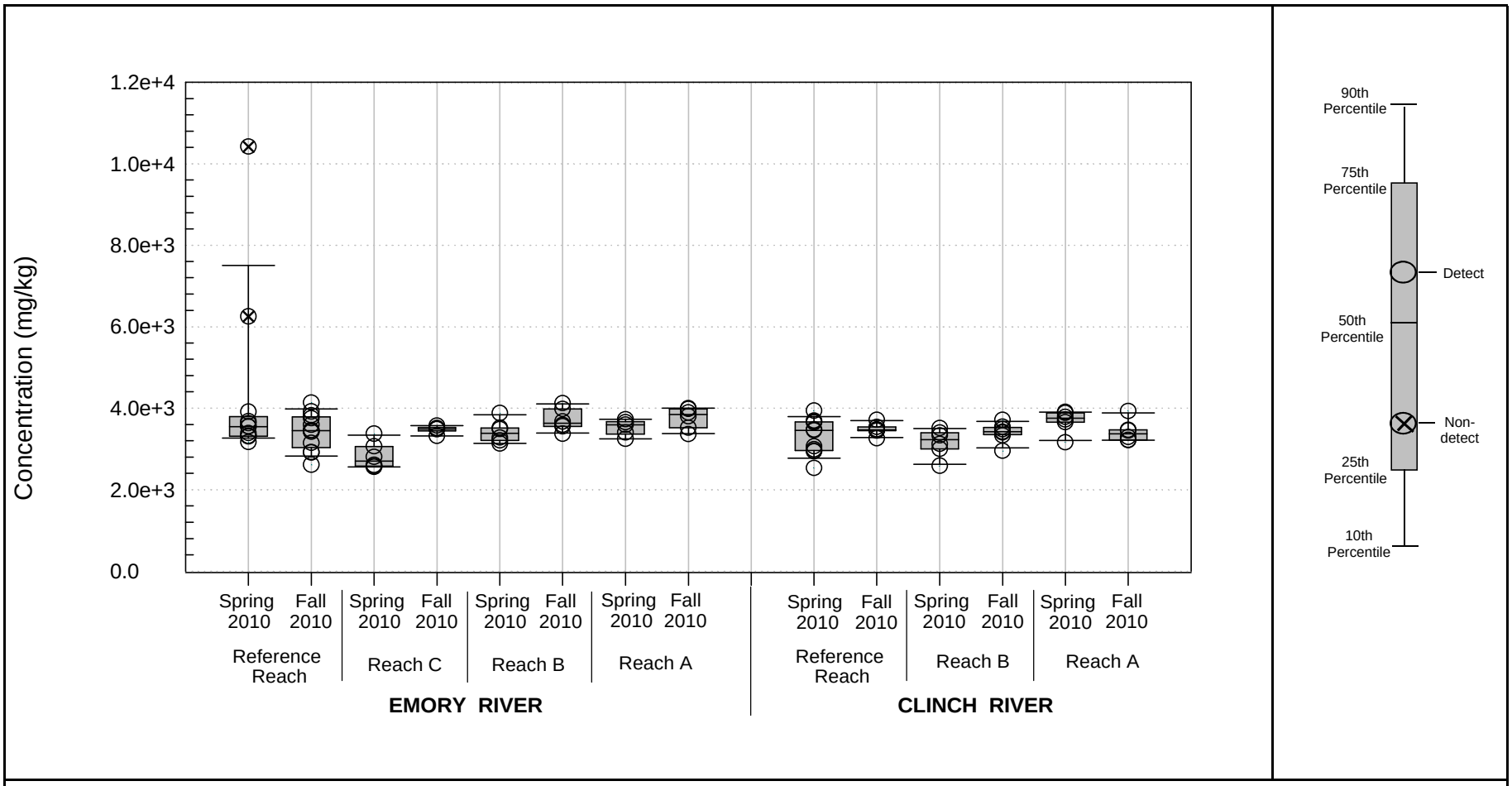
ARCADIS

Fillet
Bluegill - Molybdenum
TVA Kingston



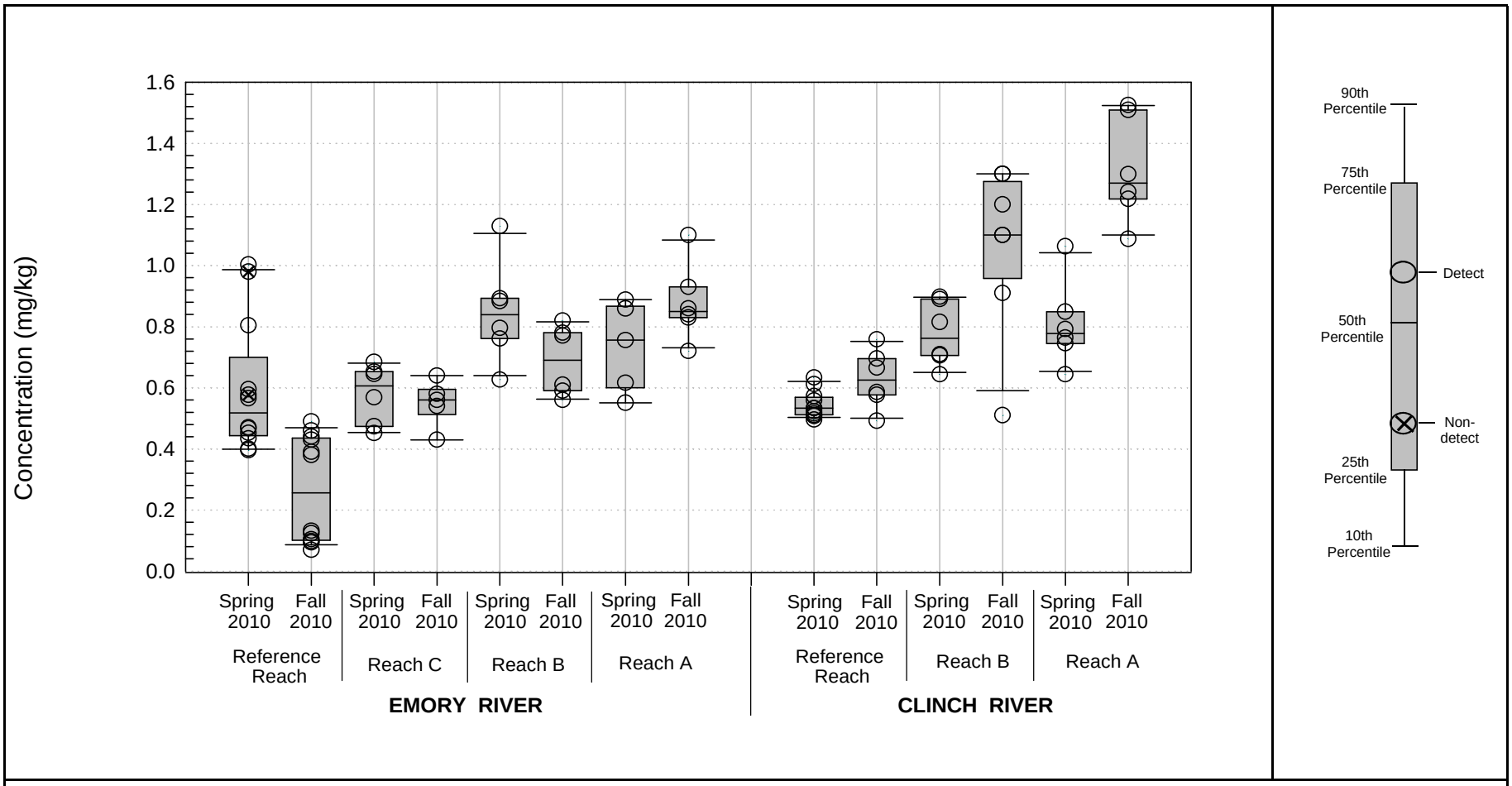
ARCADIS

Fillet
Bluegill - Nickel
TVA Kingston



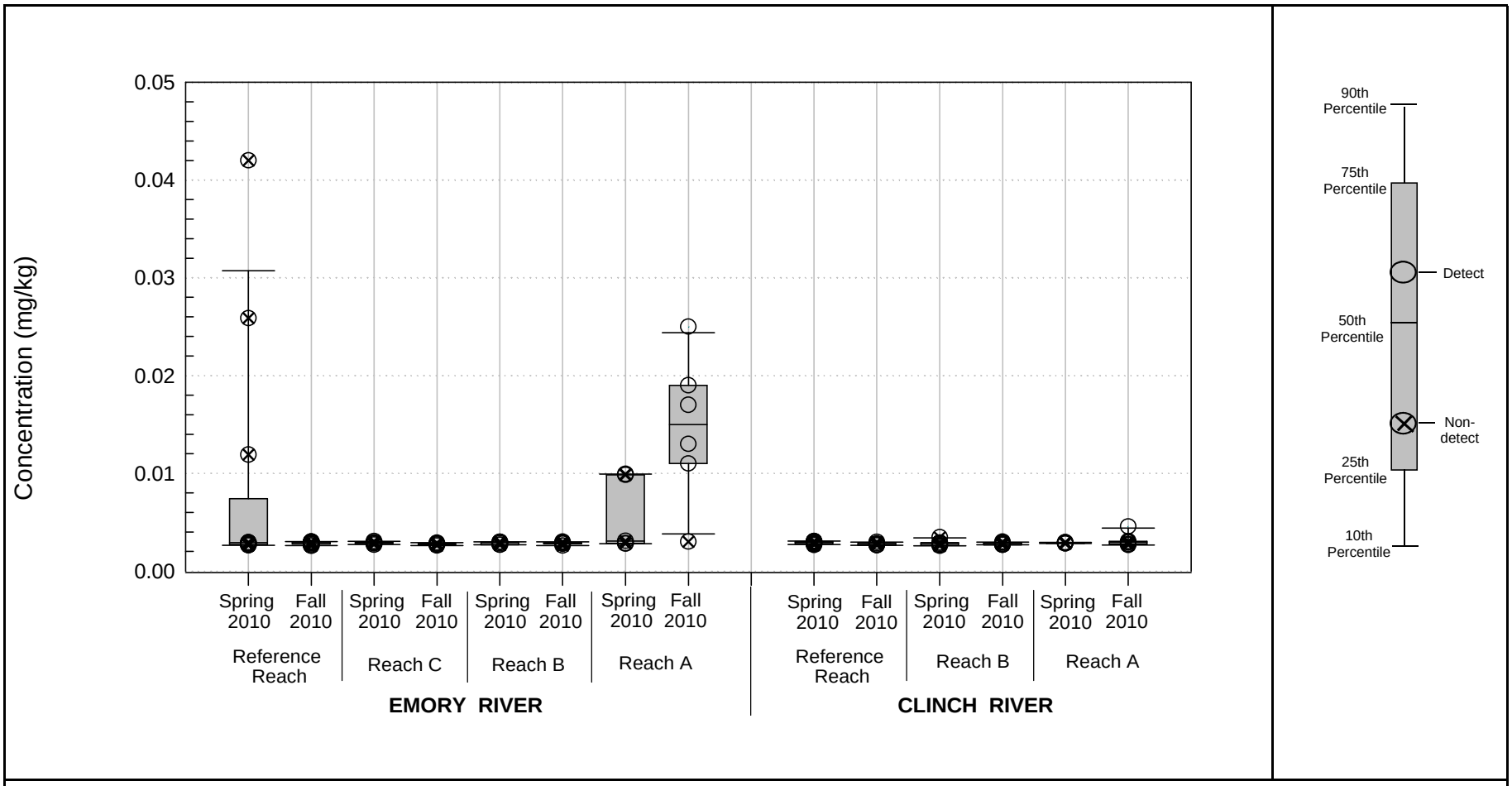
ARCADIS

Fillet
Bluegill - Potassium
TVA Kingston



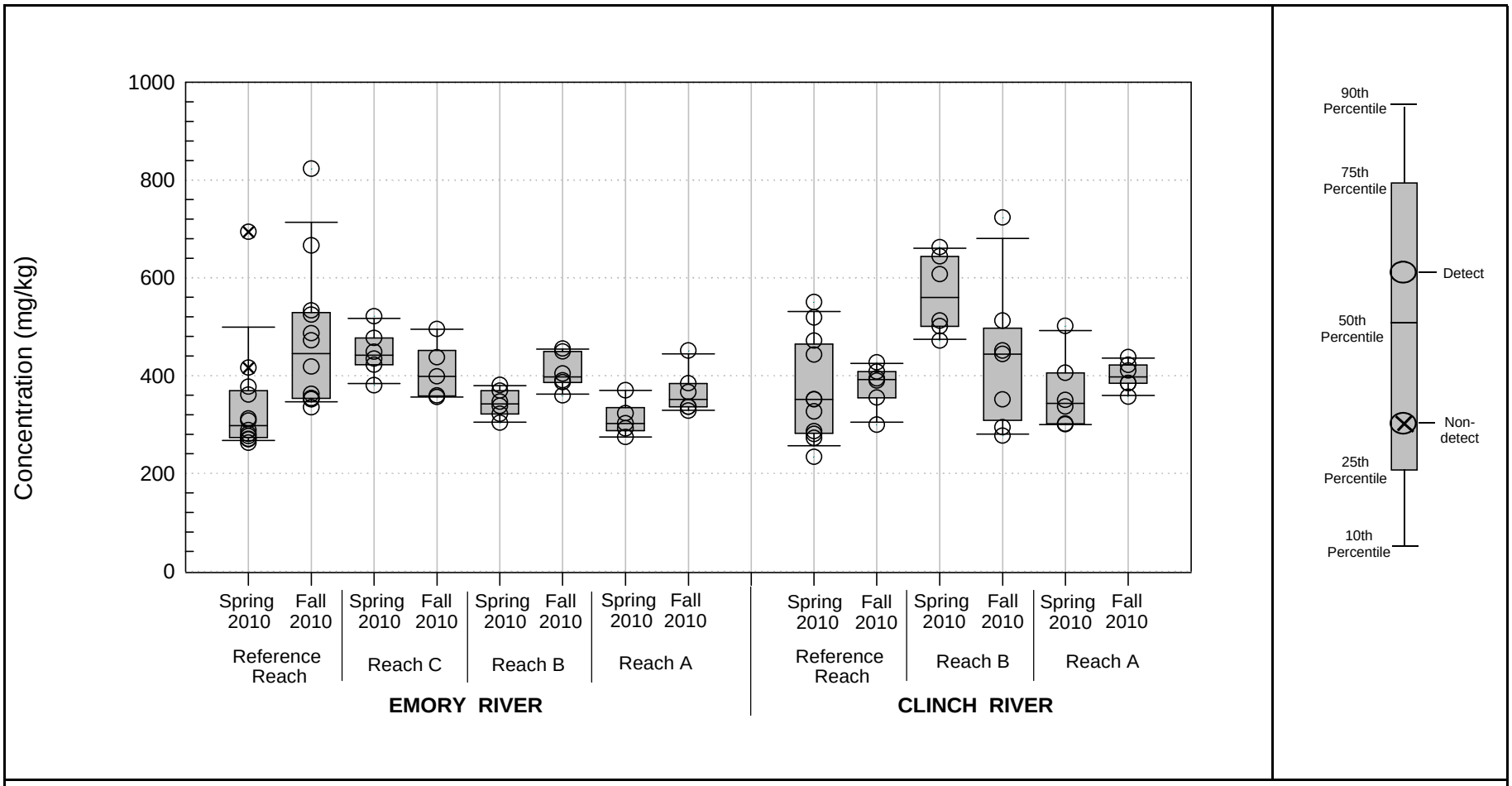
ARCADIS

Fillet
Bluegill - Selenium
TVA Kingston



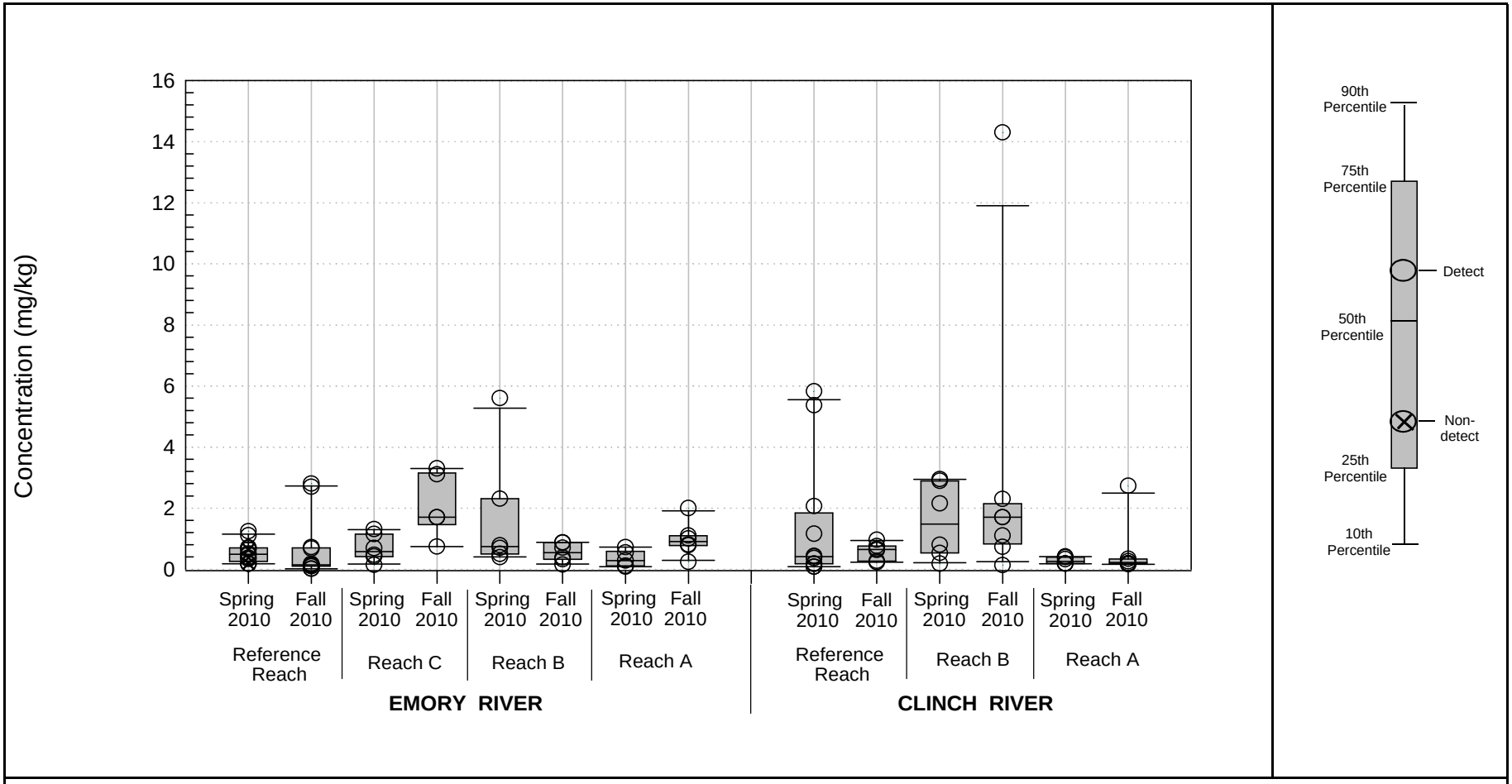
ARCADIS

Fillet
Bluegill - Silver
TVA Kingston



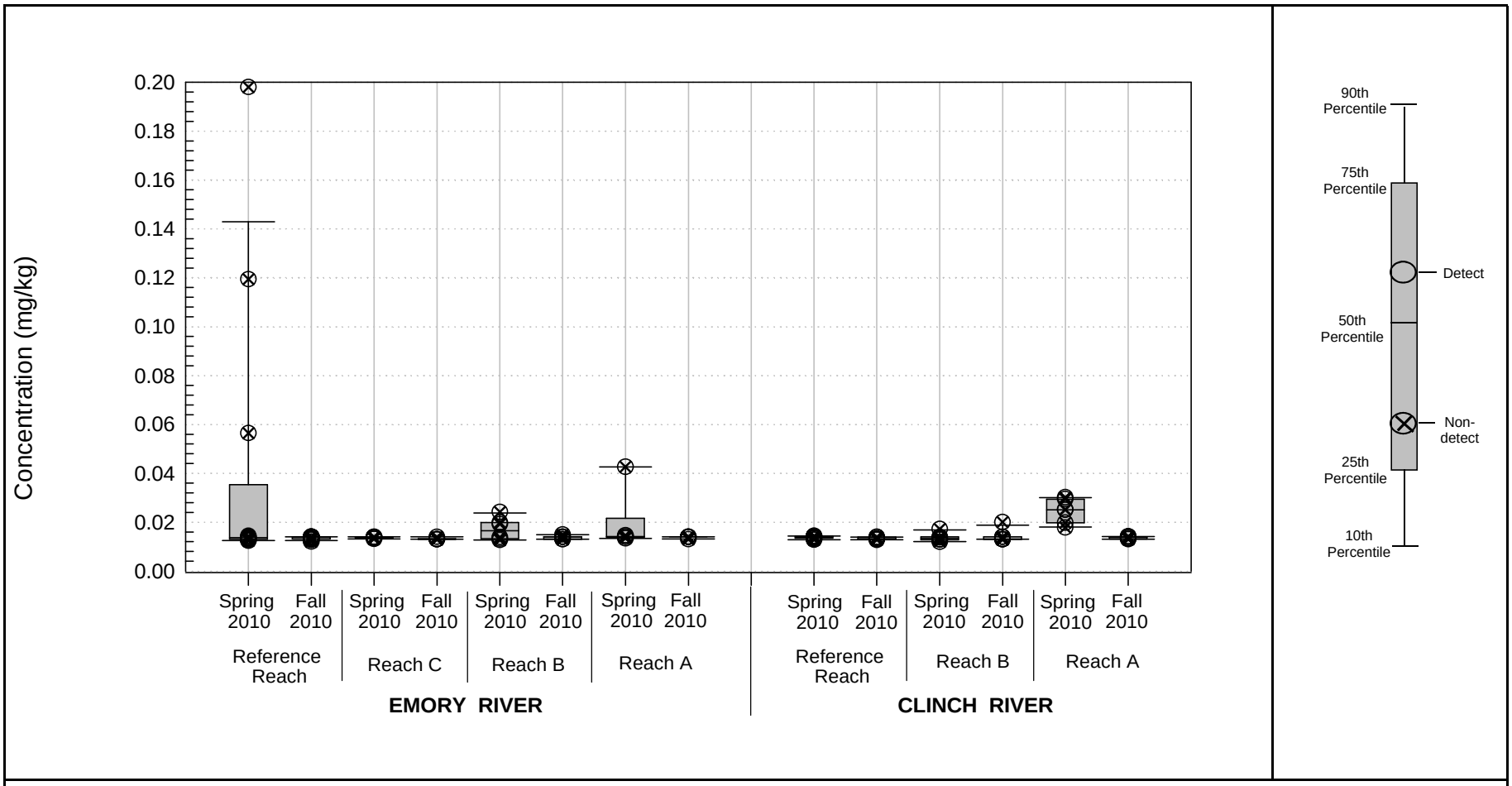
ARCADIS

Fillet
Bluegill - Sodium
TVA Kingston



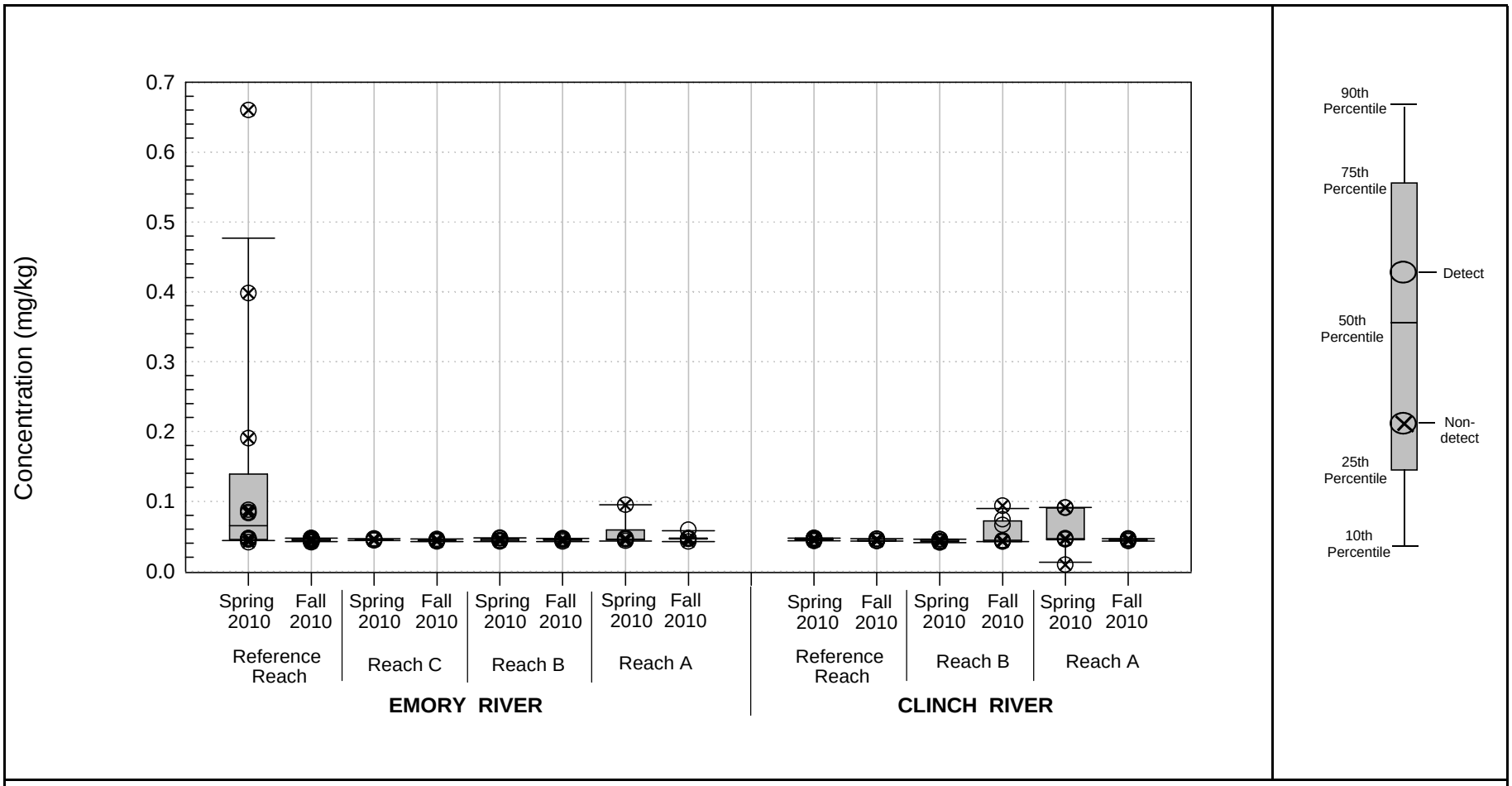
ARCADIS

Fillet
Bluegill - Strontium
TVA Kingston



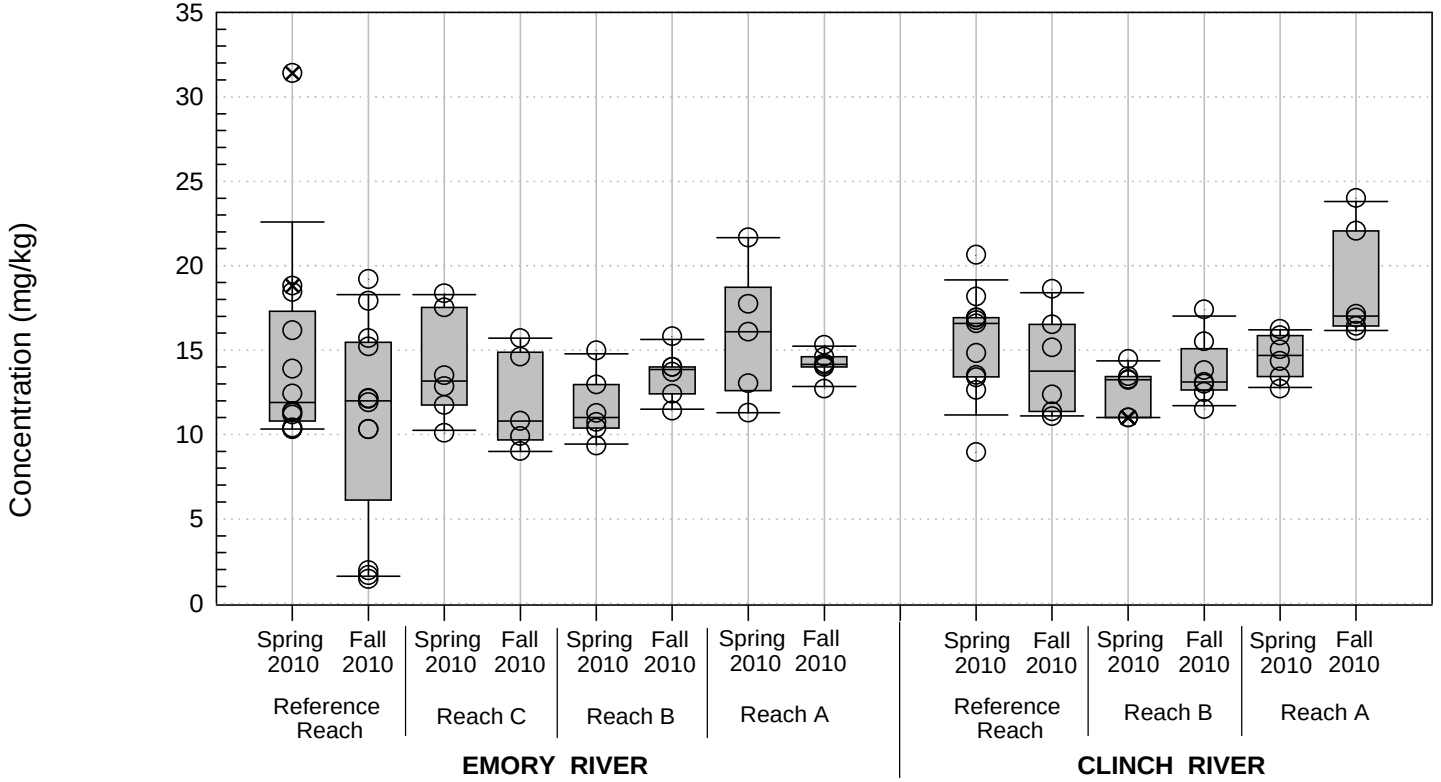
ARCADIS

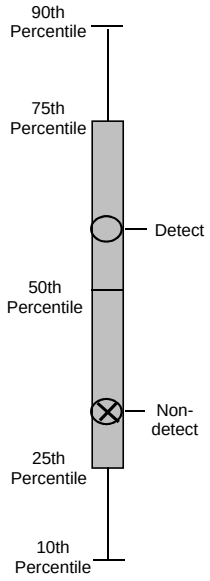
Fillet
Bluegill - Thallium
TVA Kingston



ARCADIS

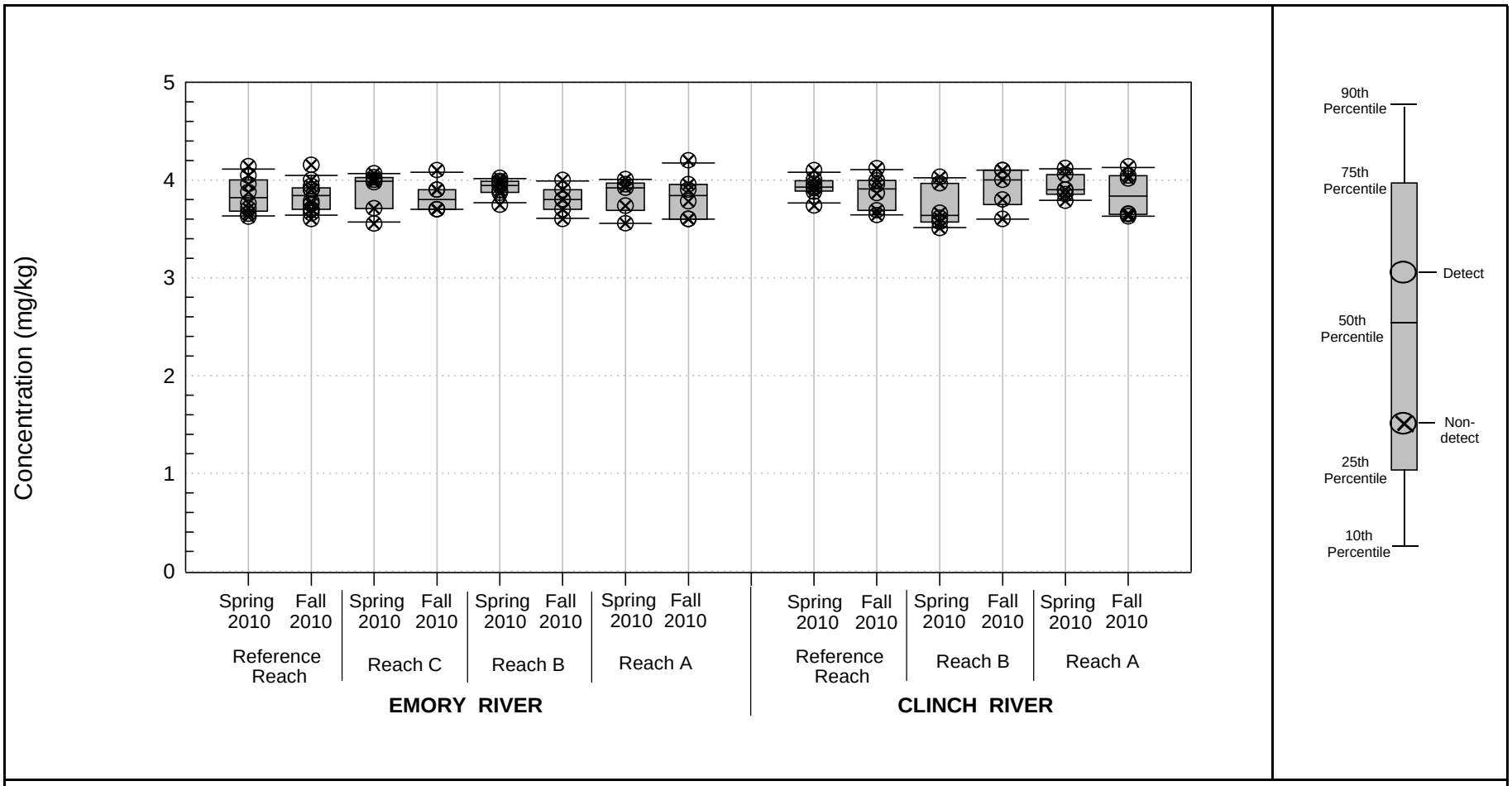
Fillet
Bluegill - Vanadium
TVA Kingston





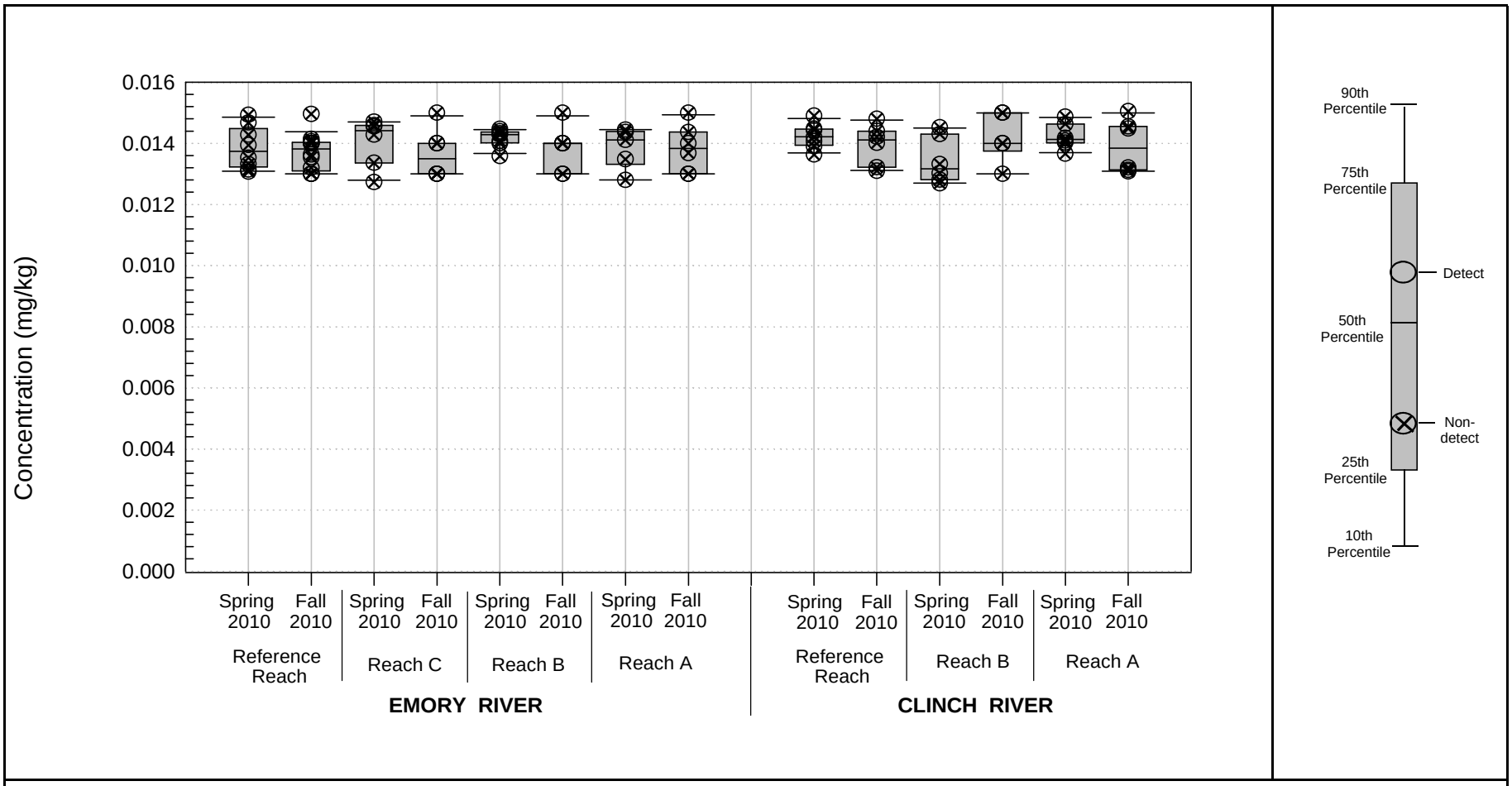
ARCADIS

Fillet
Bluegill - Zinc
TVA Kingston



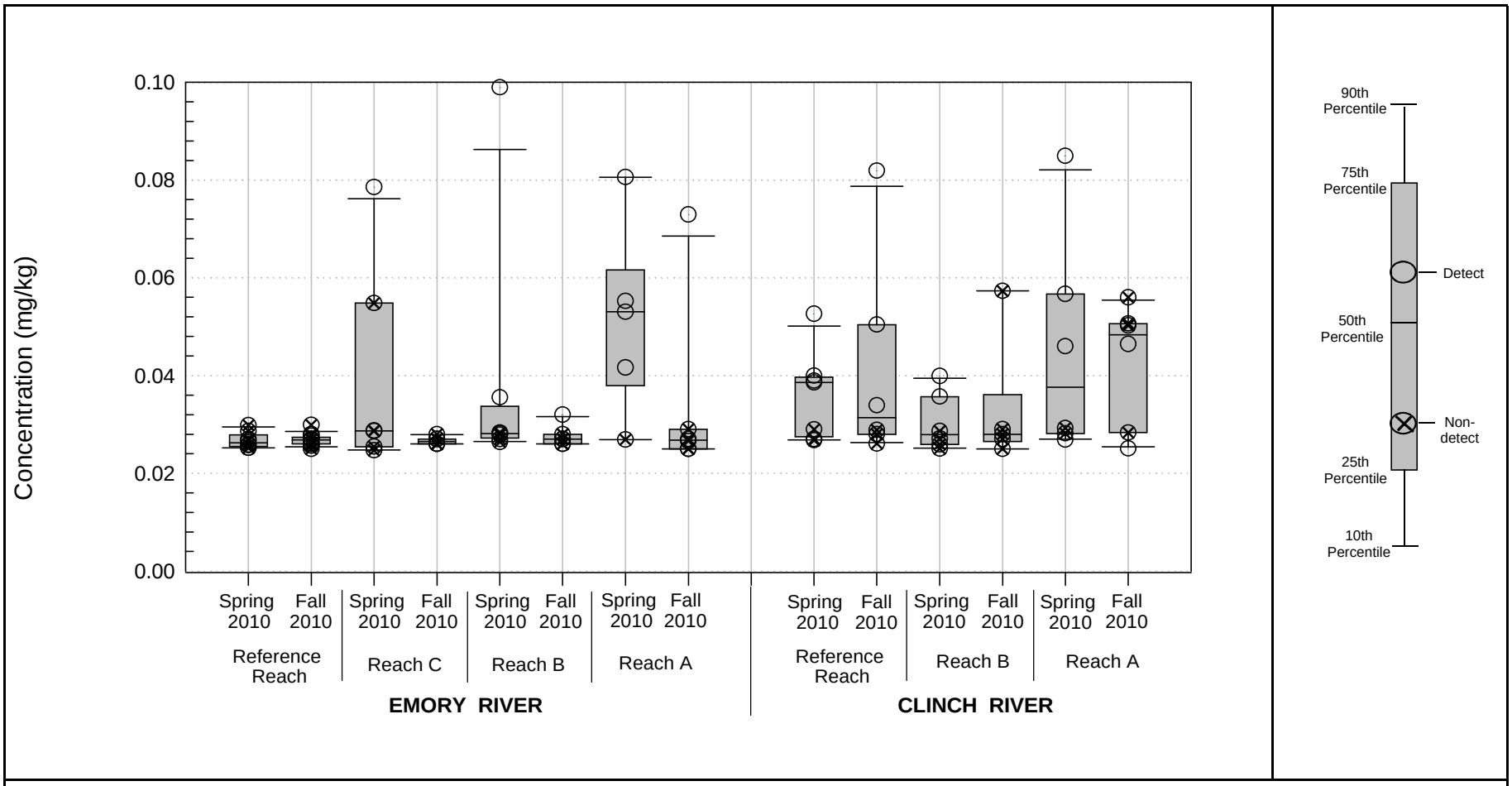
ARCADIS

Fillet
Channel Catfish - Aluminum
TVA Kingston



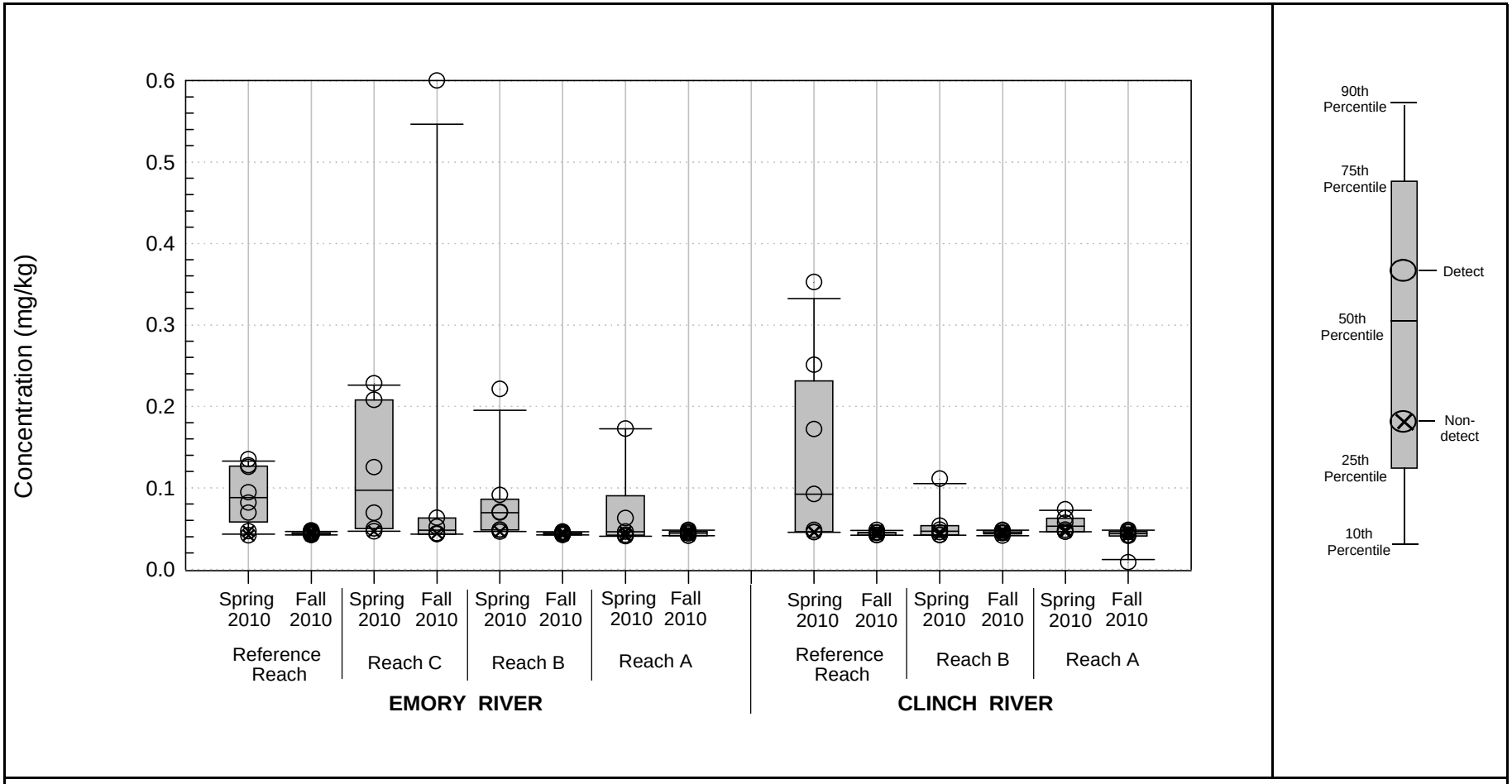
ARCADIS

Fillet
Channel Catfish - Antimony
TVA Kingston



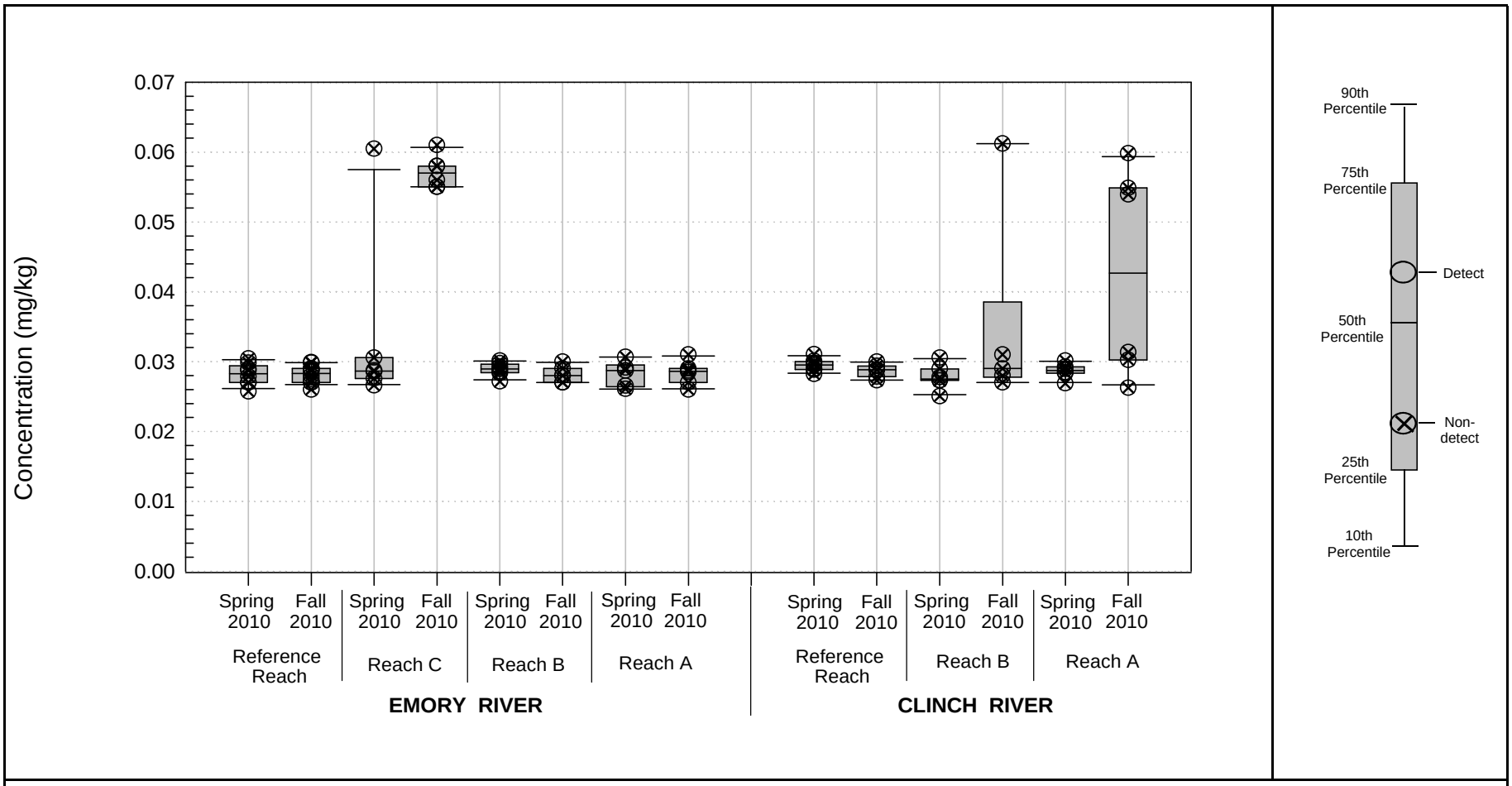
ARCADIS

Fillet
Channel Catfish - Arsenic
TVA Kingston



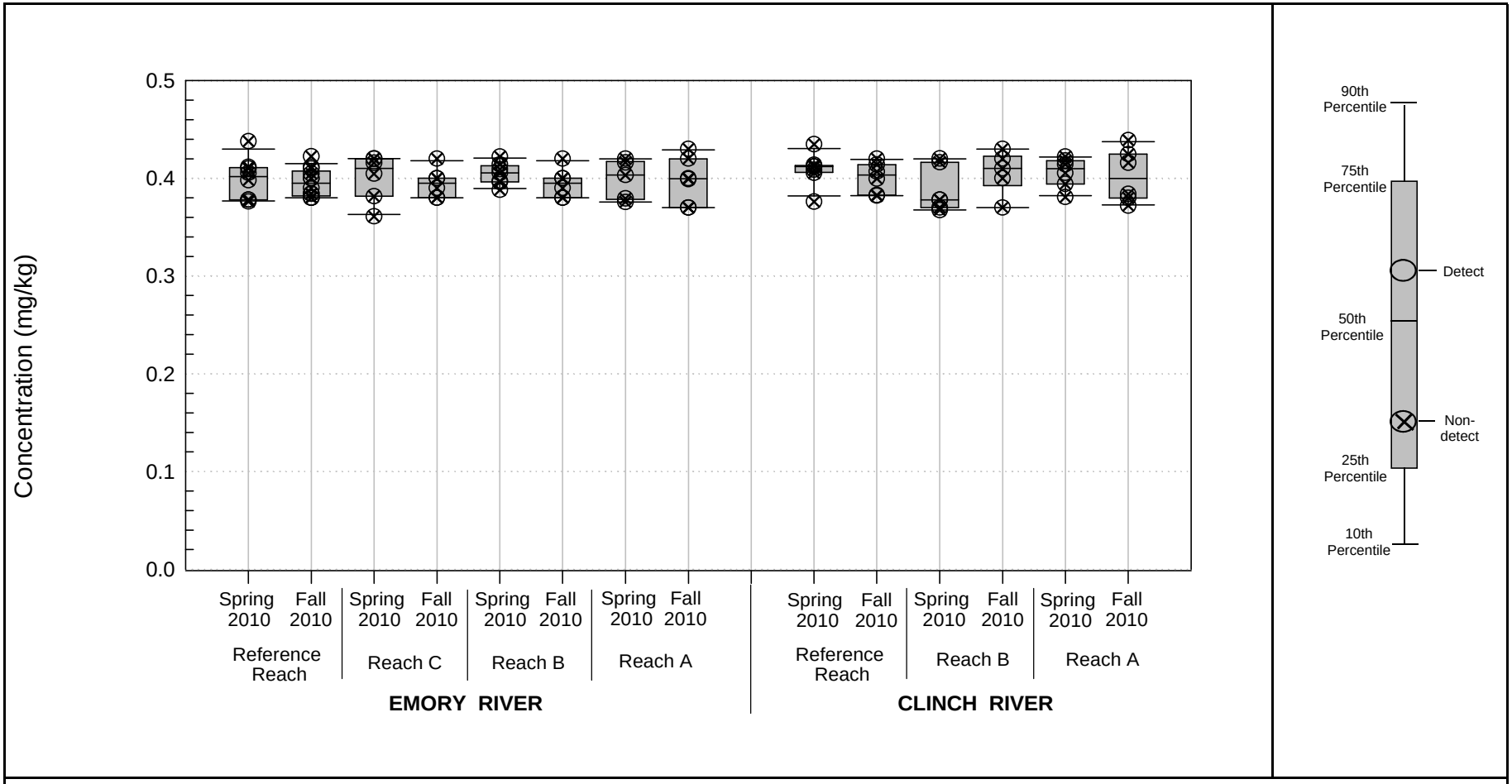
ARCADIS

Fillet
Channel Catfish - Barium
TVA Kingston



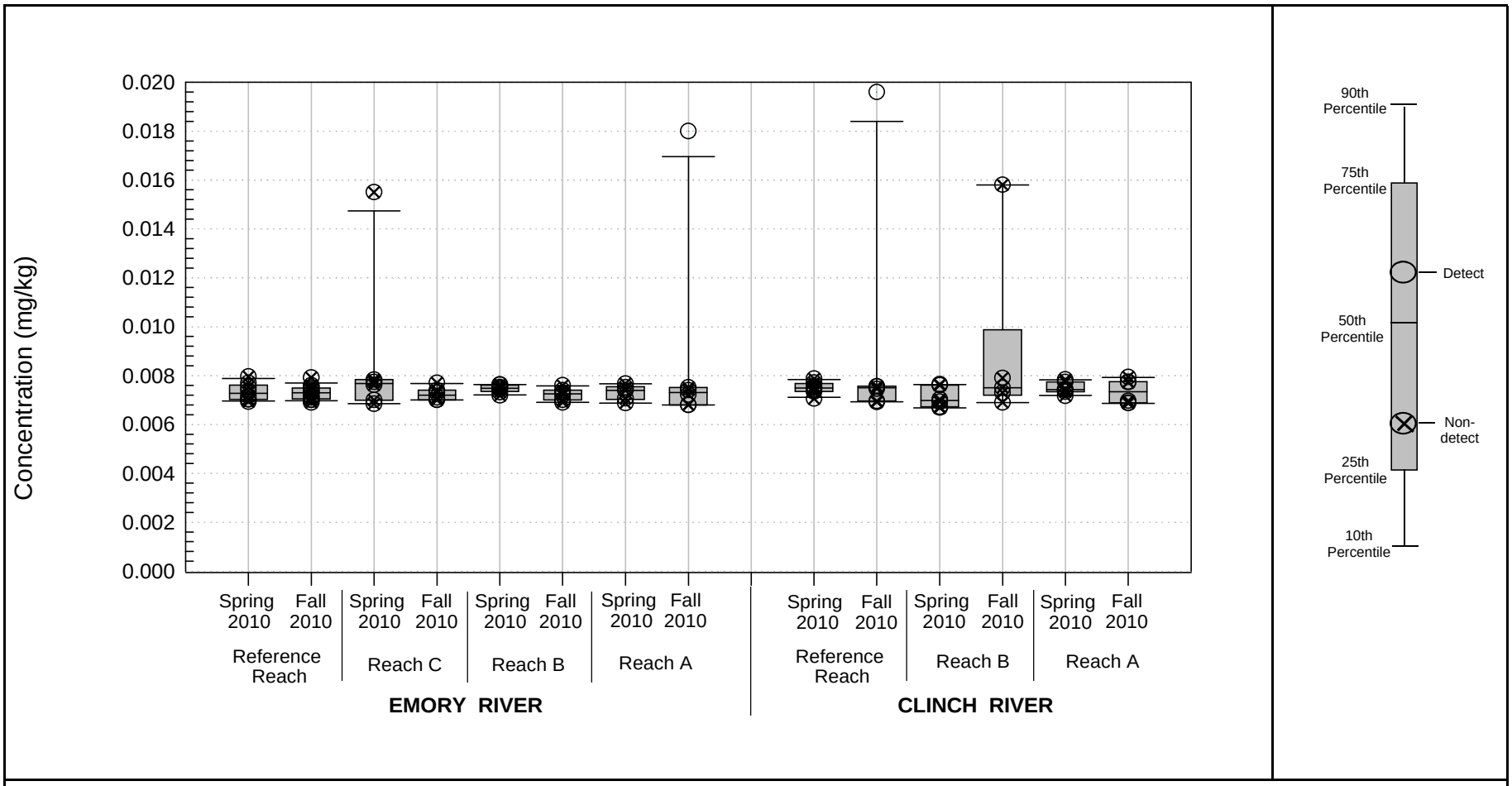
ARCADIS

Fillet
Channel Catfish - Beryllium
TVA Kingston



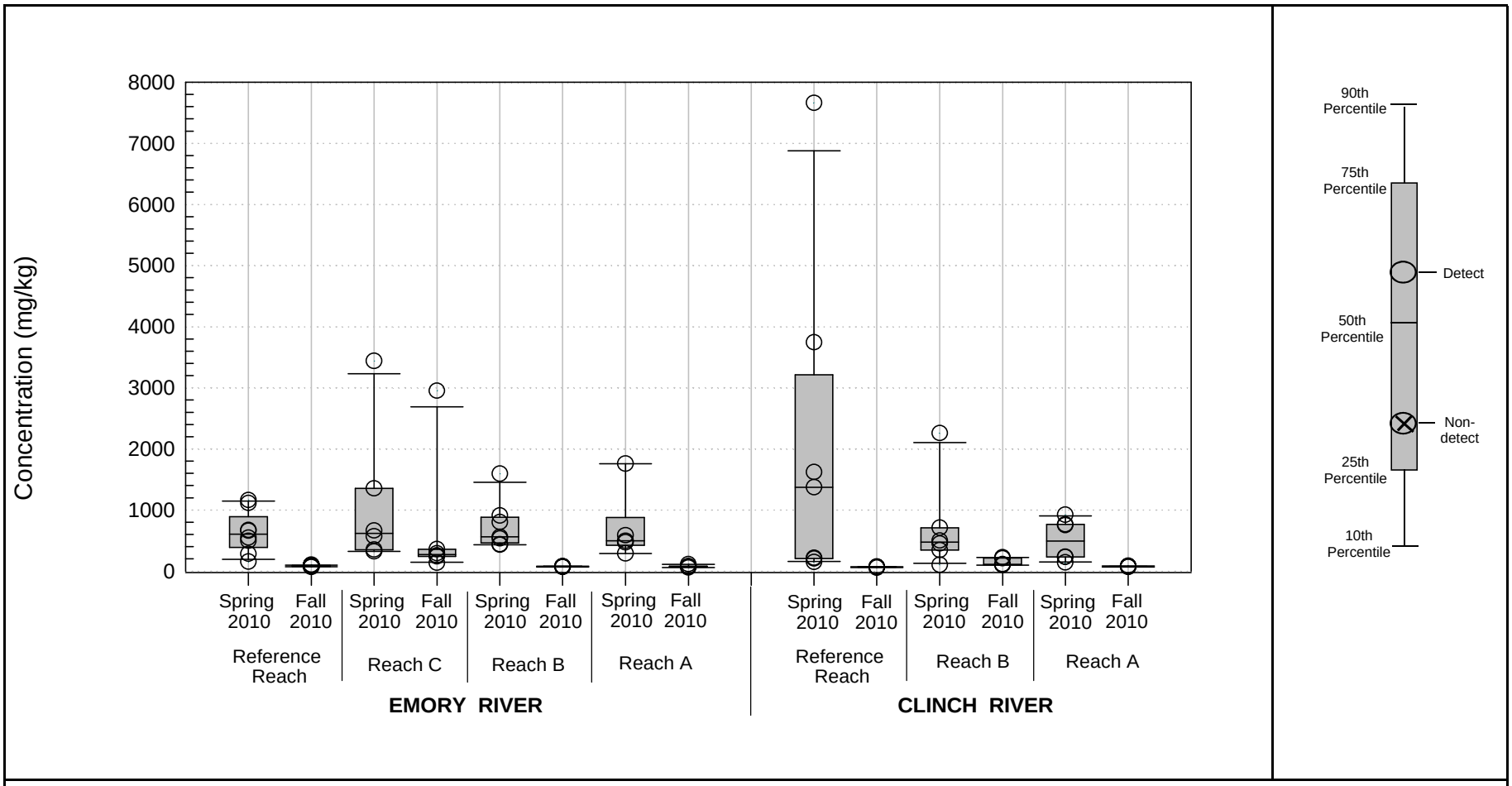
ARCADIS

Fillet
Channel Catfish - Boron
TVA Kingston



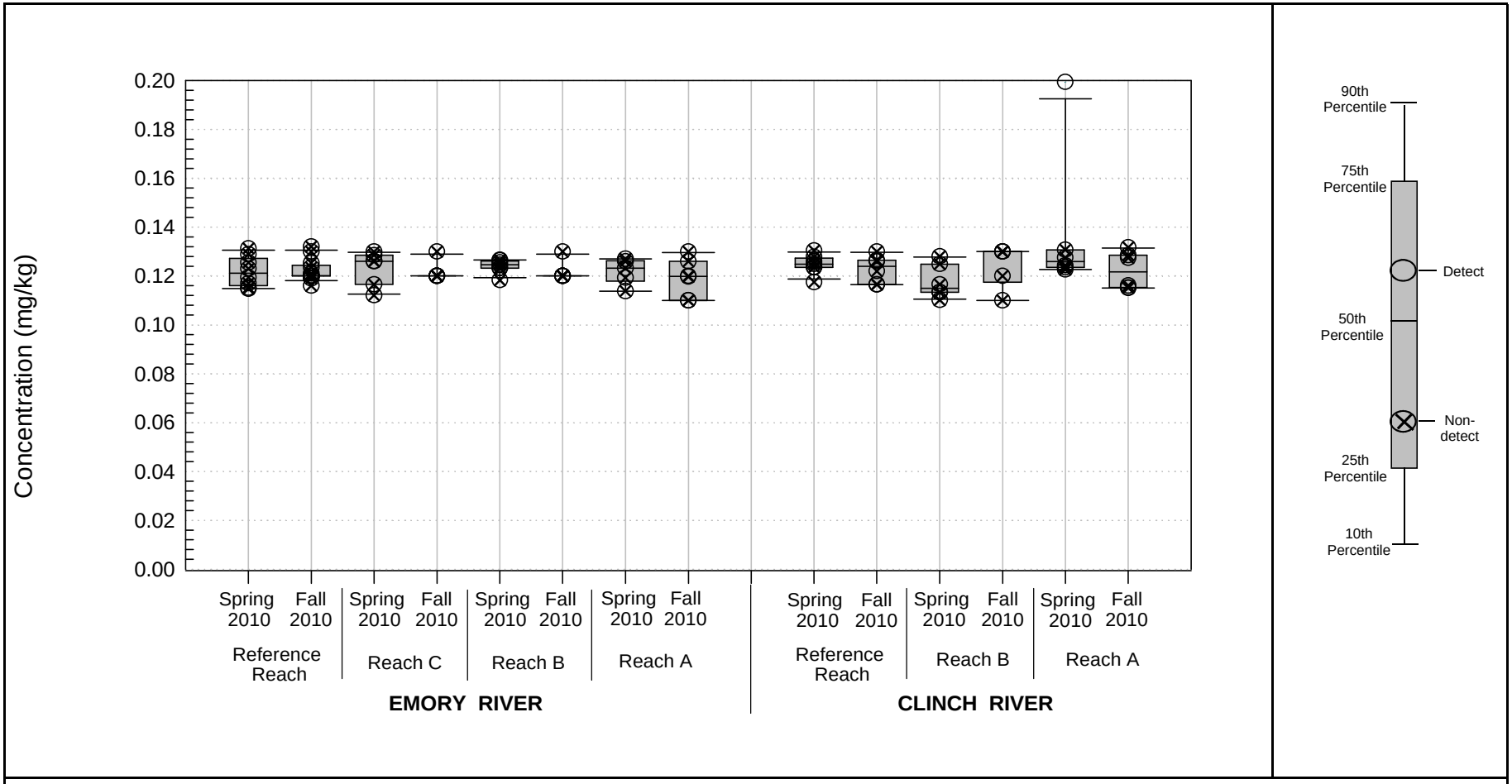
ARCADIS

Fillet
Channel Catfish - Cadmium
TVA Kingston



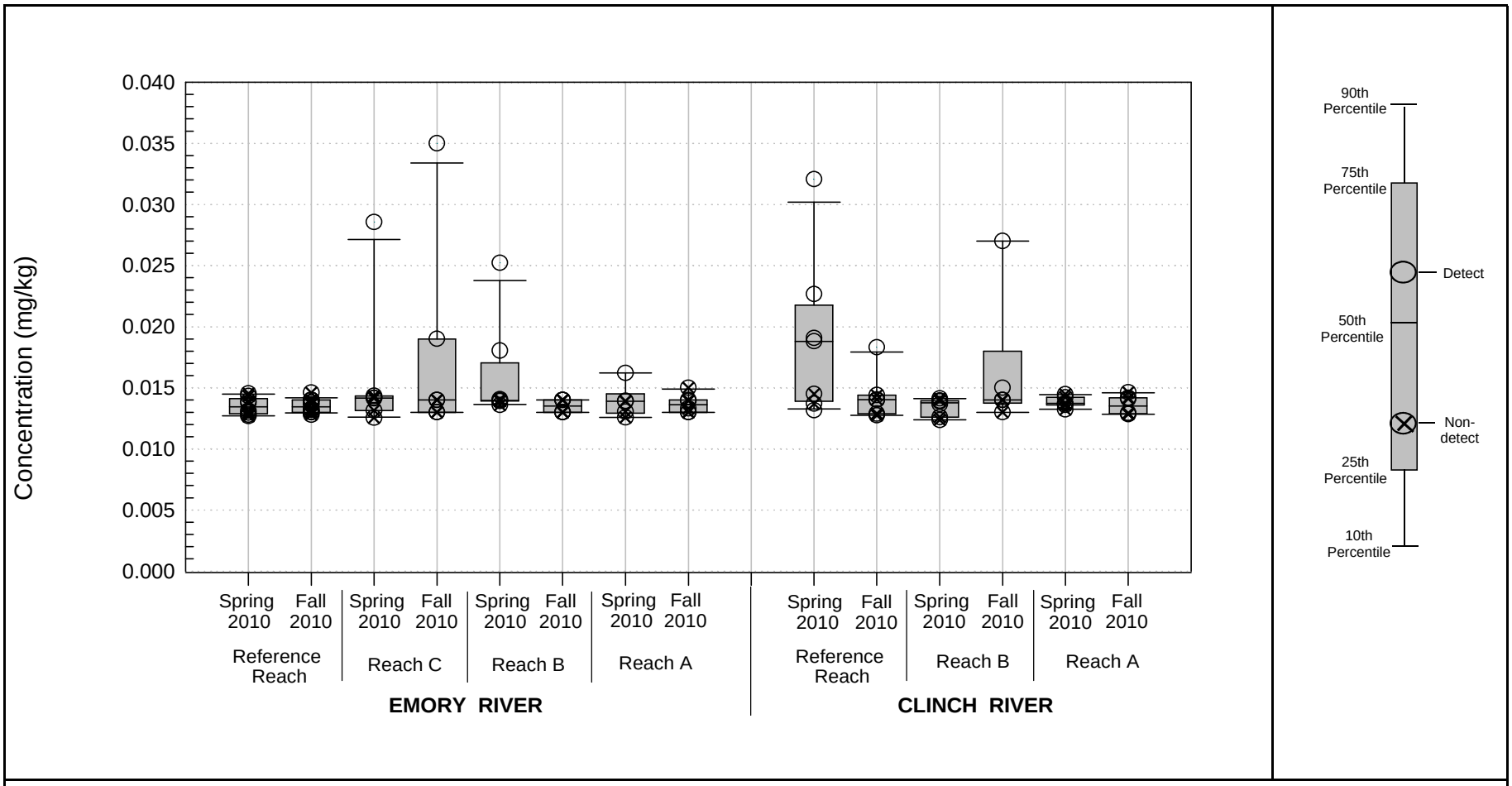
ARCADIS

Fillet
Channel Catfish - Calcium
TVA Kingston



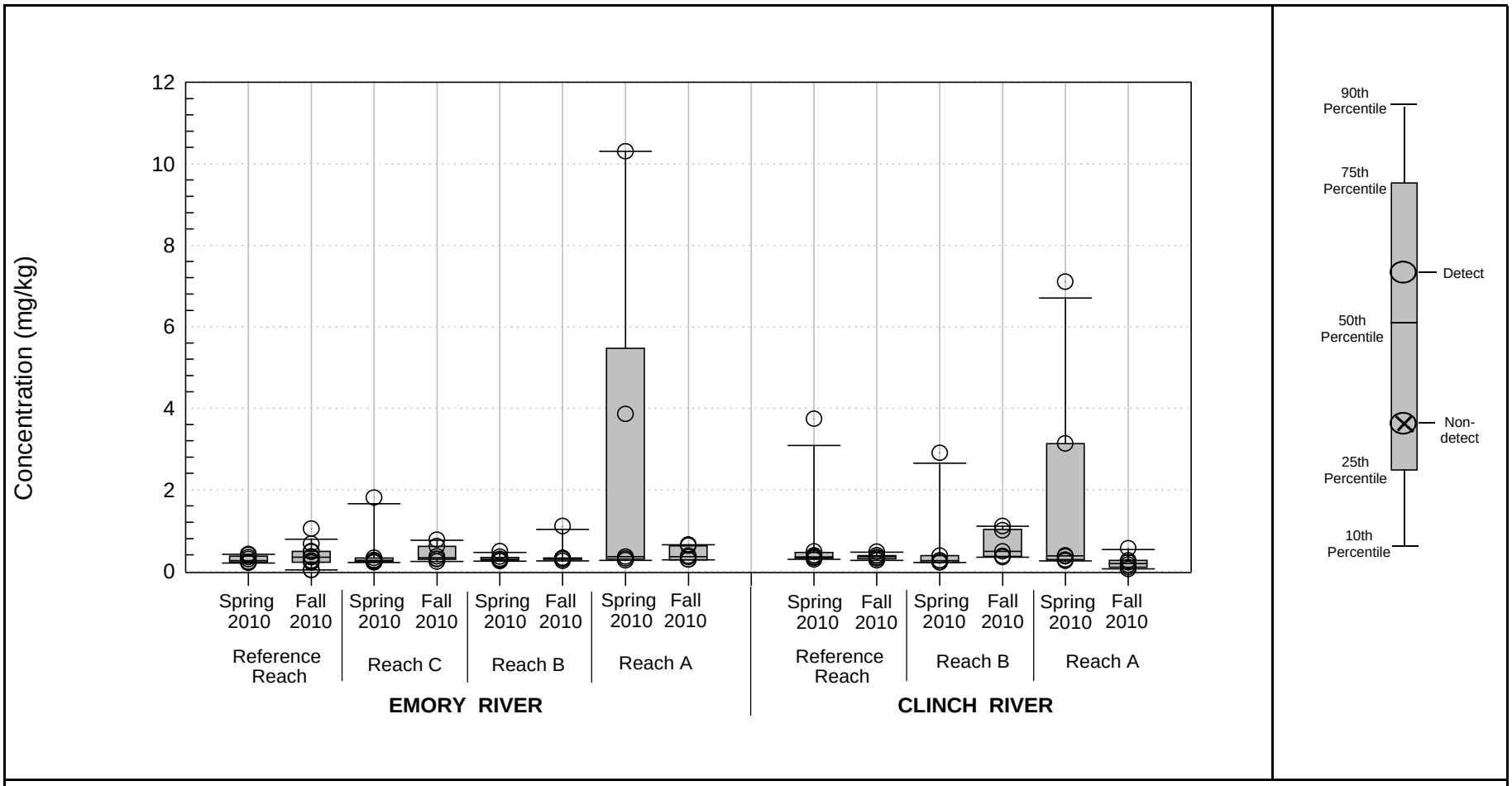
ARCADIS

Fillet
Channel Catfish - Chromium
TVA Kingston



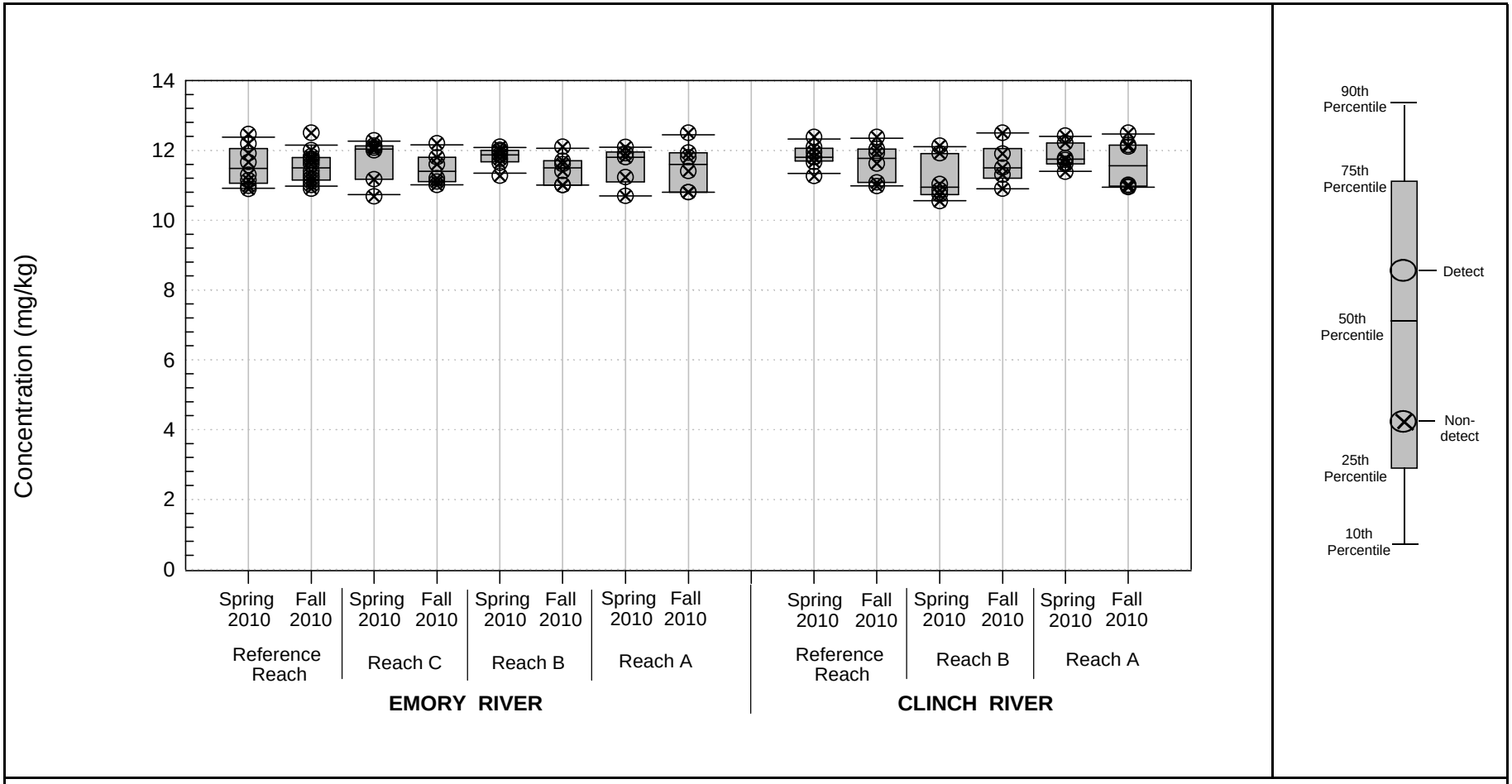
ARCADIS

Fillet
Channel Catfish - Cobalt
TVA Kingston



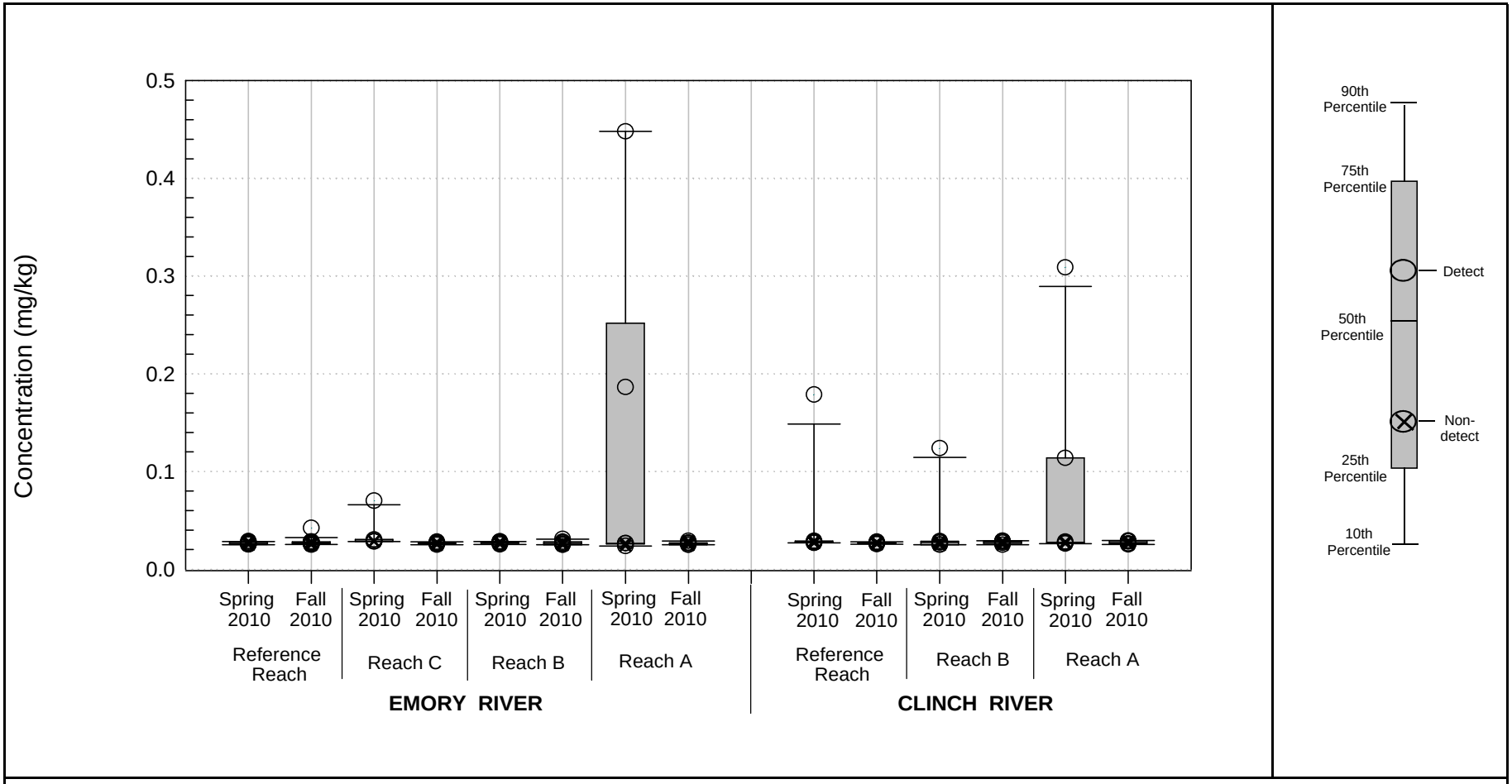
ARCADIS

Fillet
Channel Catfish - Copper
TVA Kingston



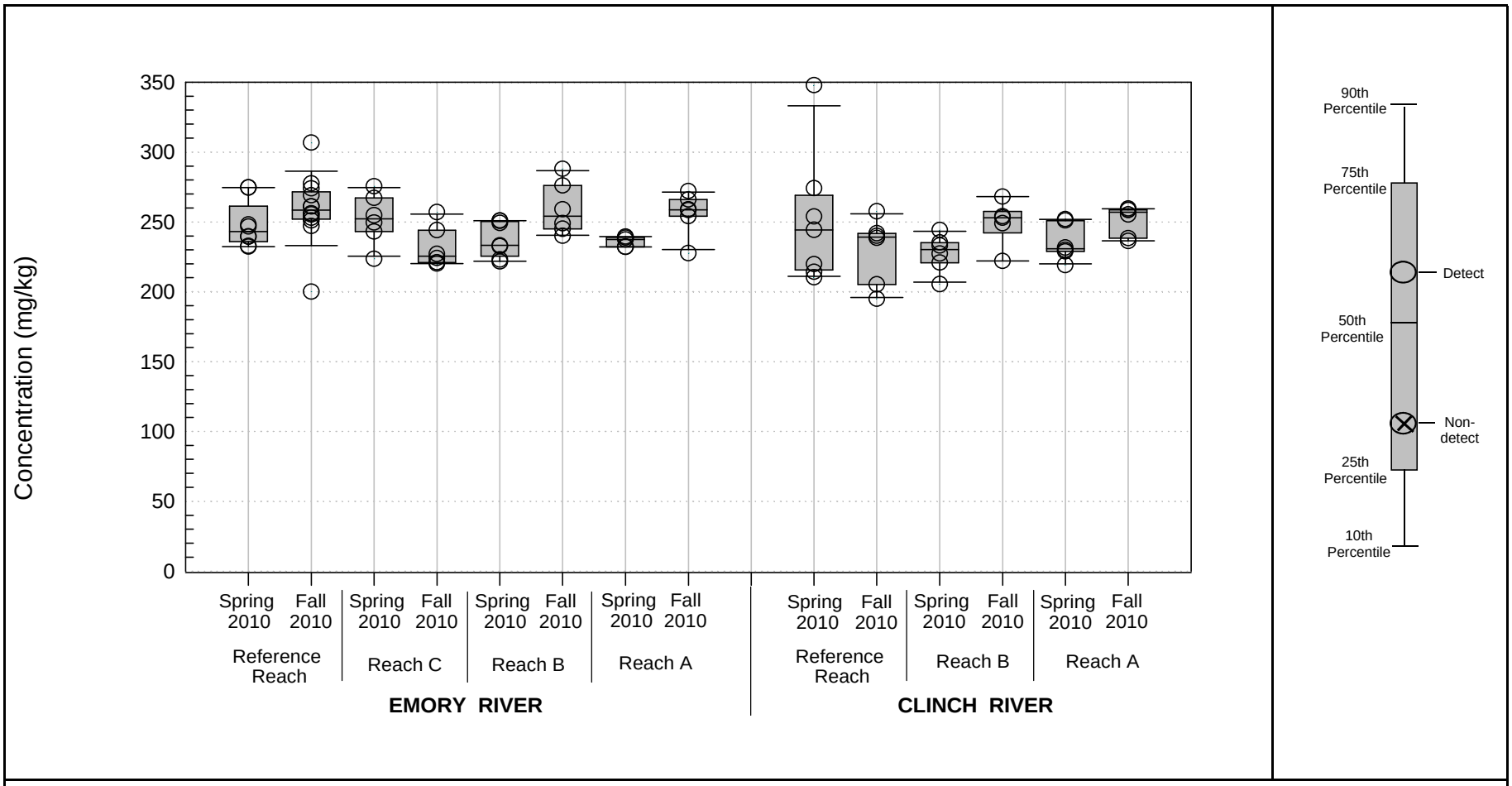
ARCADIS

Fillet
Channel Catfish - Iron
TVA Kingston



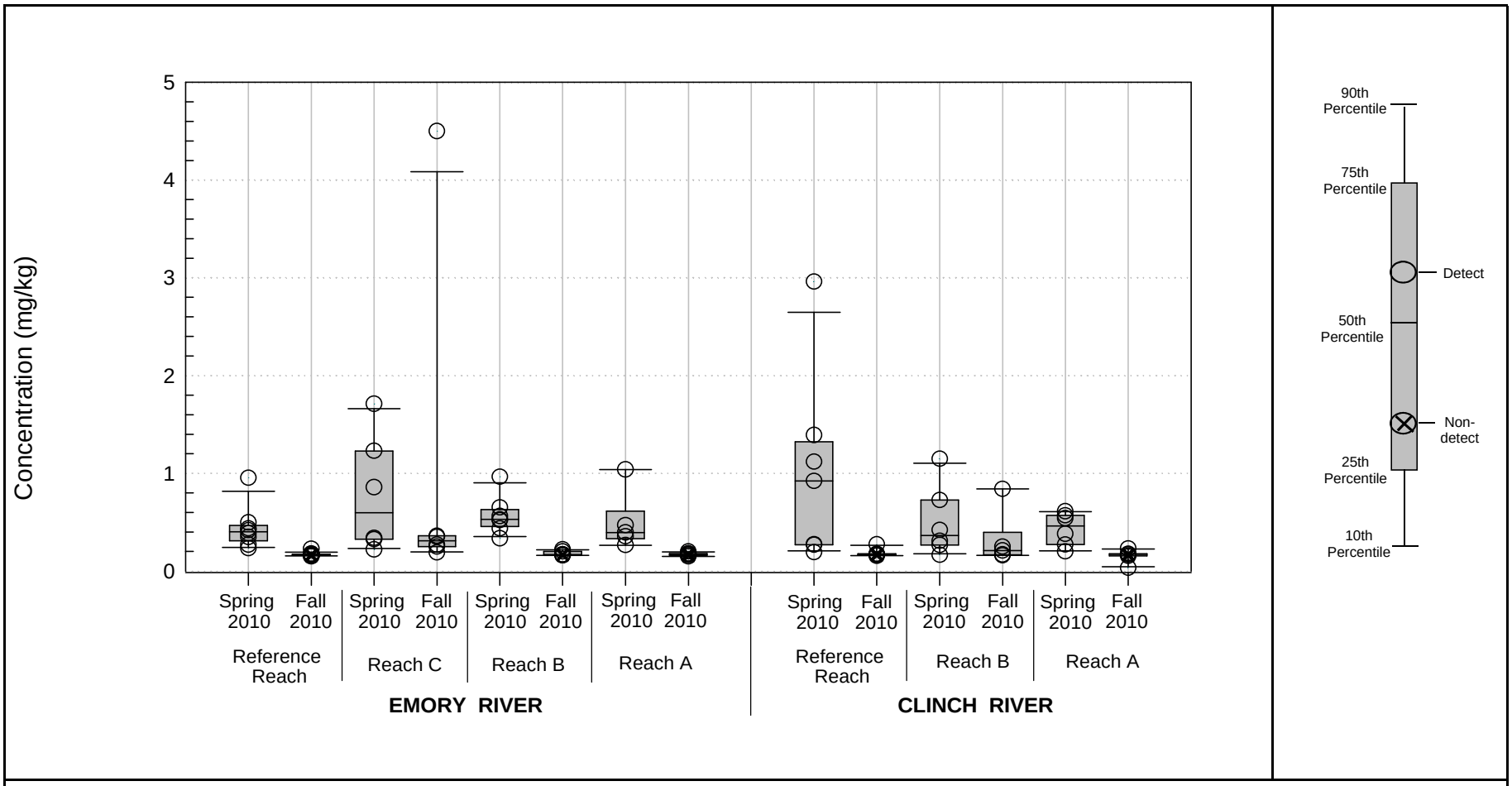
ARCADIS

Fillet
Channel Catfish - Lead
TVA Kingston



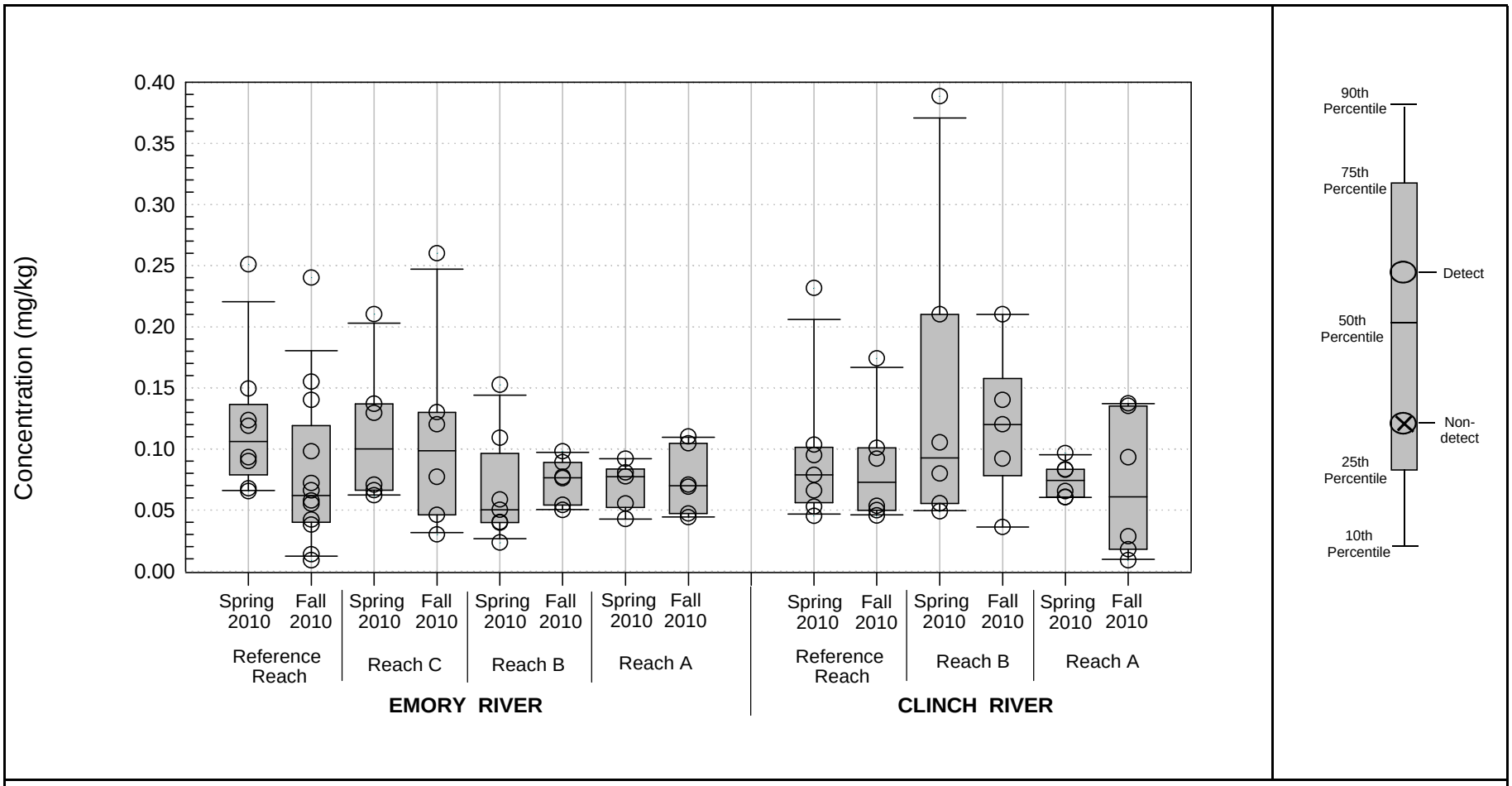
ARCADIS

Fillet
Channel Catfish - Magnesium
TVA Kingston



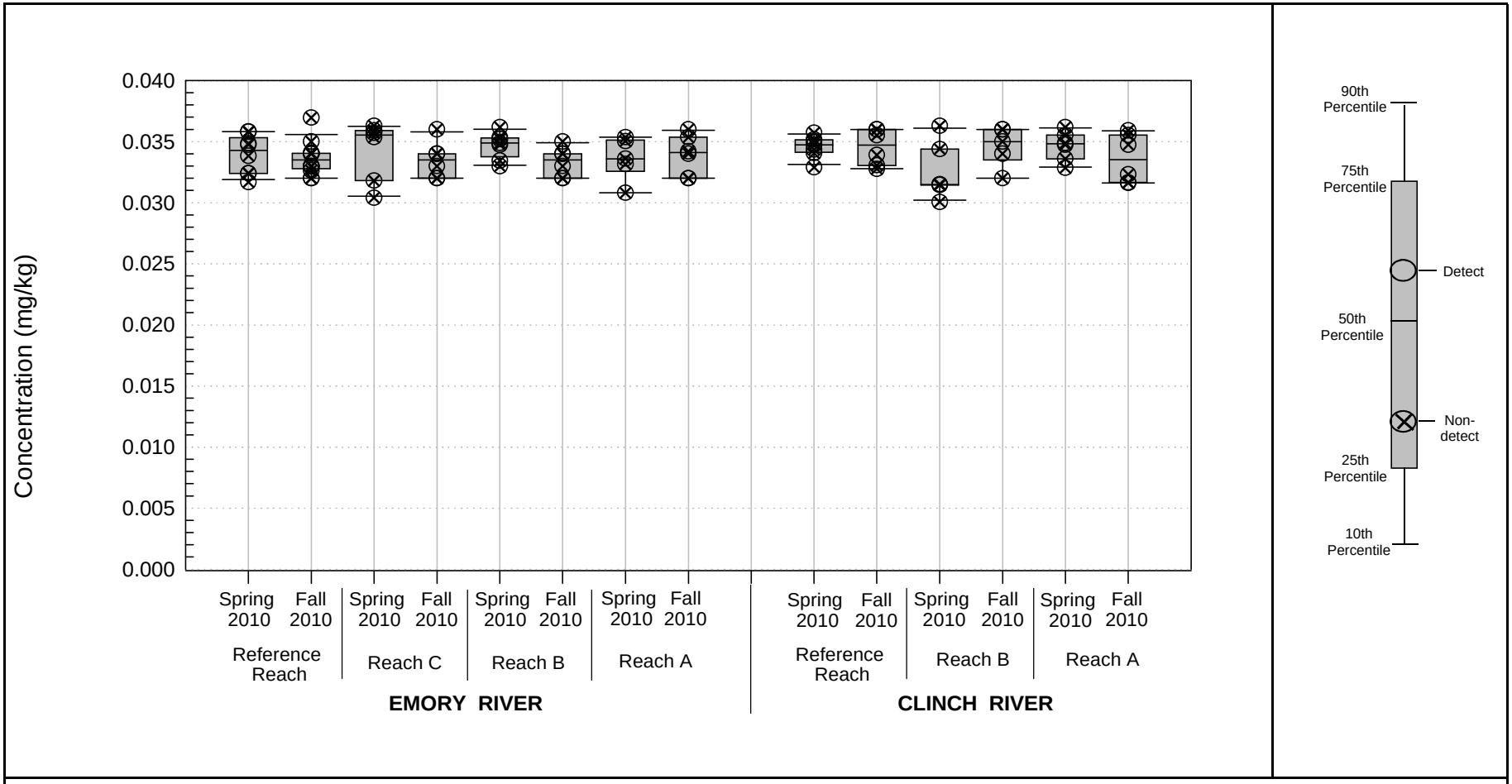
ARCADIS

Fillet
Channel Catfish - Manganese
TVA Kingston



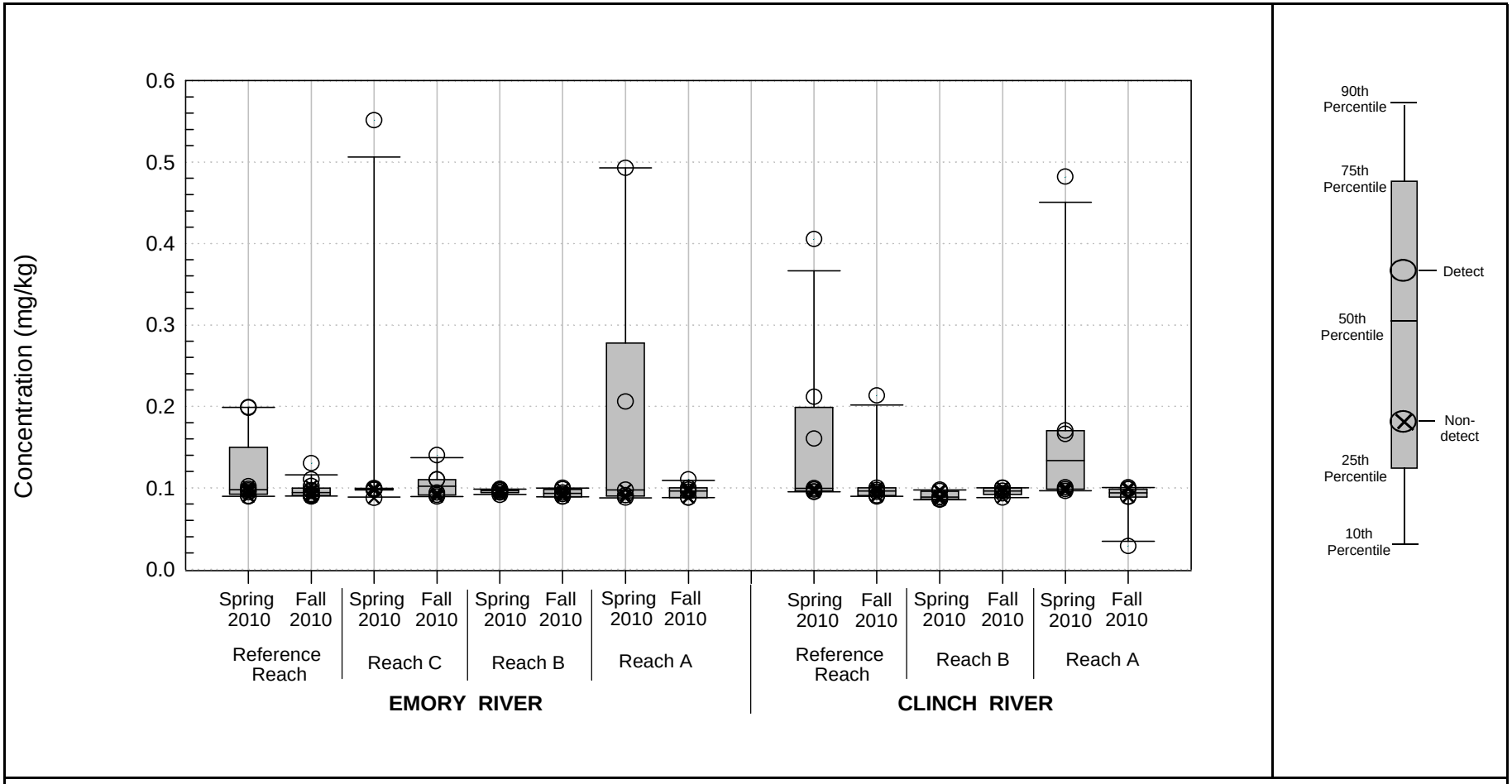
ARCADIS

Fillet
Channel Catfish - Mercury
TVA Kingston



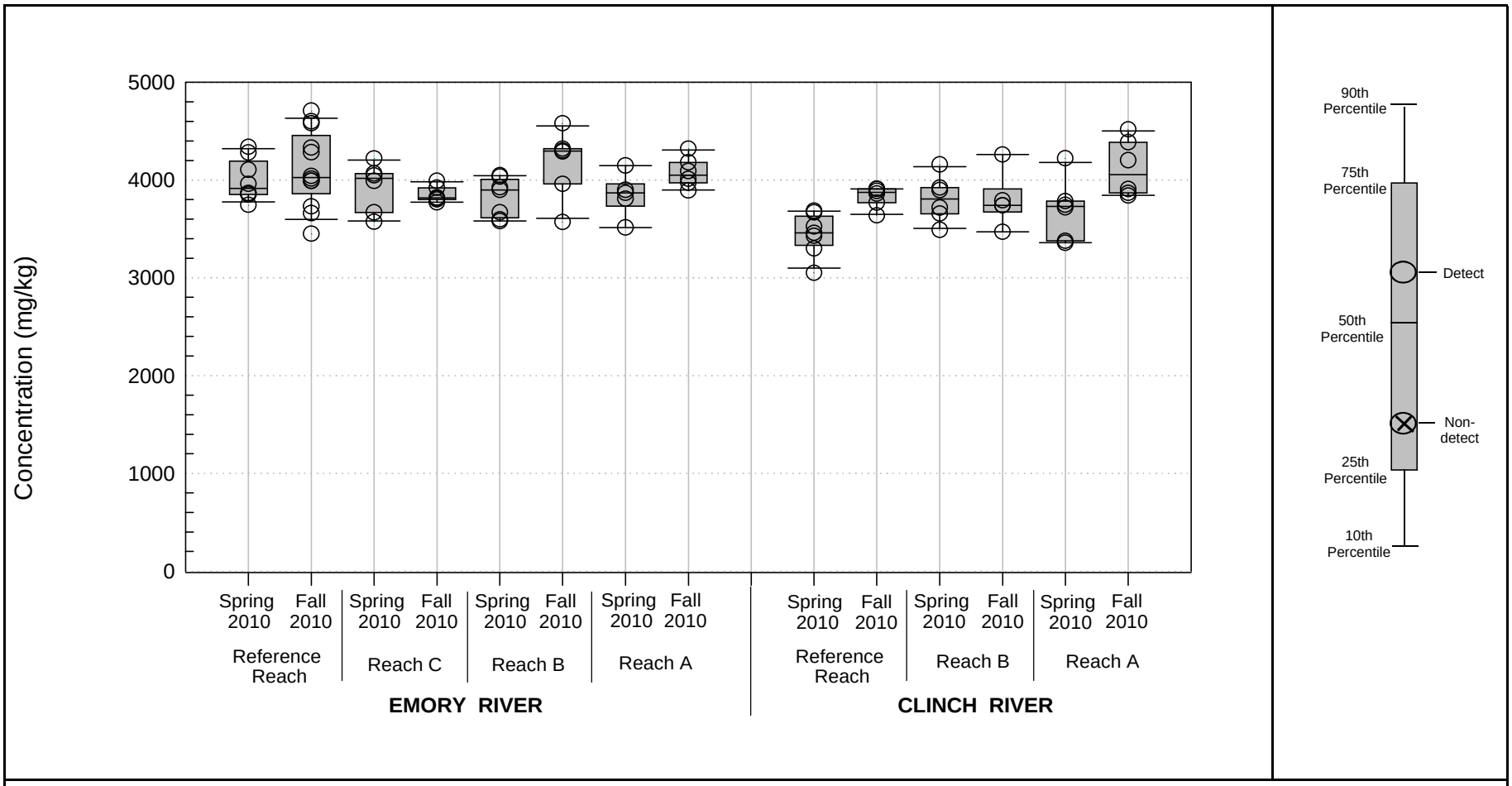
ARCADIS

Fillet
Channel Catfish - Molybdenum
TVA Kingston



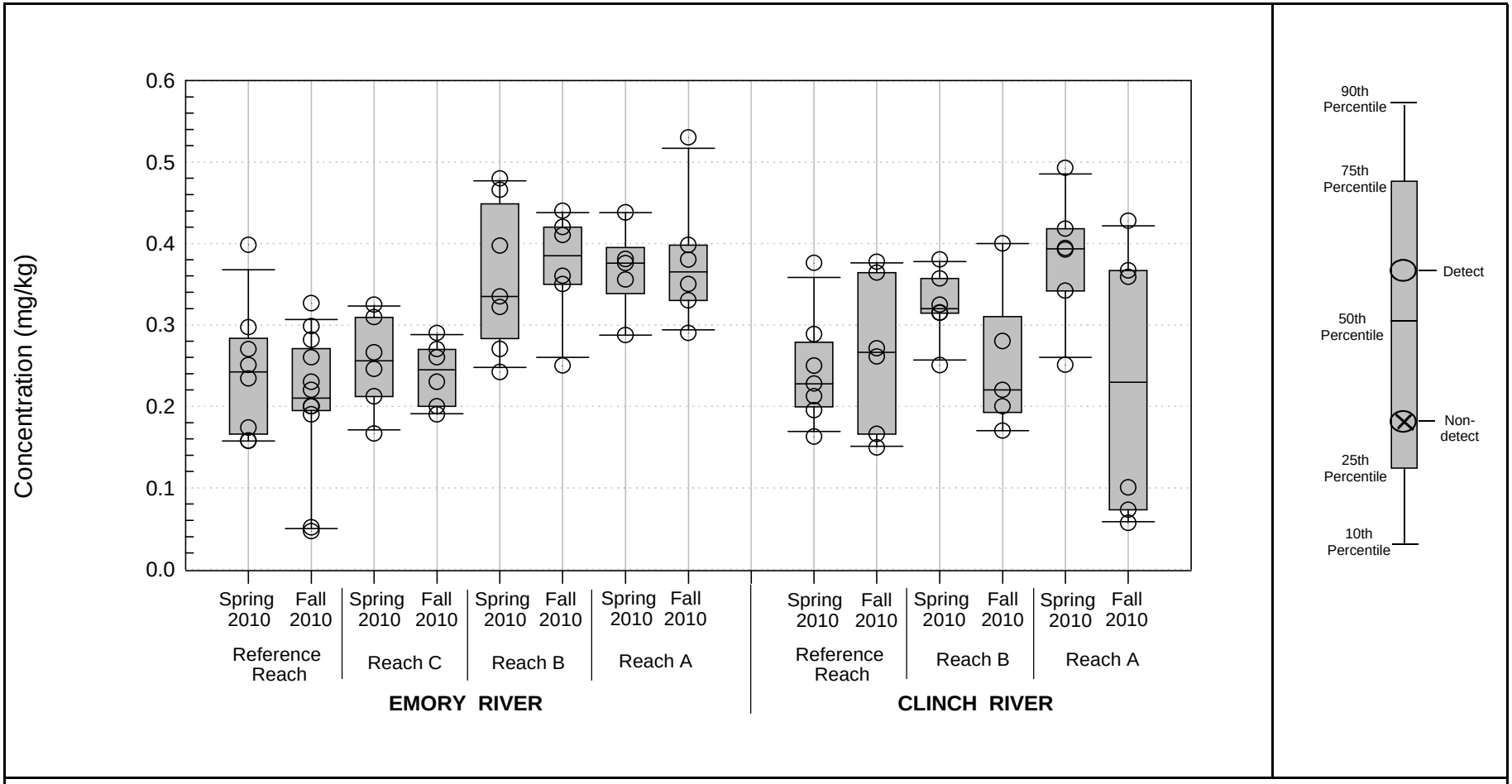
ARCADIS

Fillet
Channel Catfish - Nickel
TVA Kingston



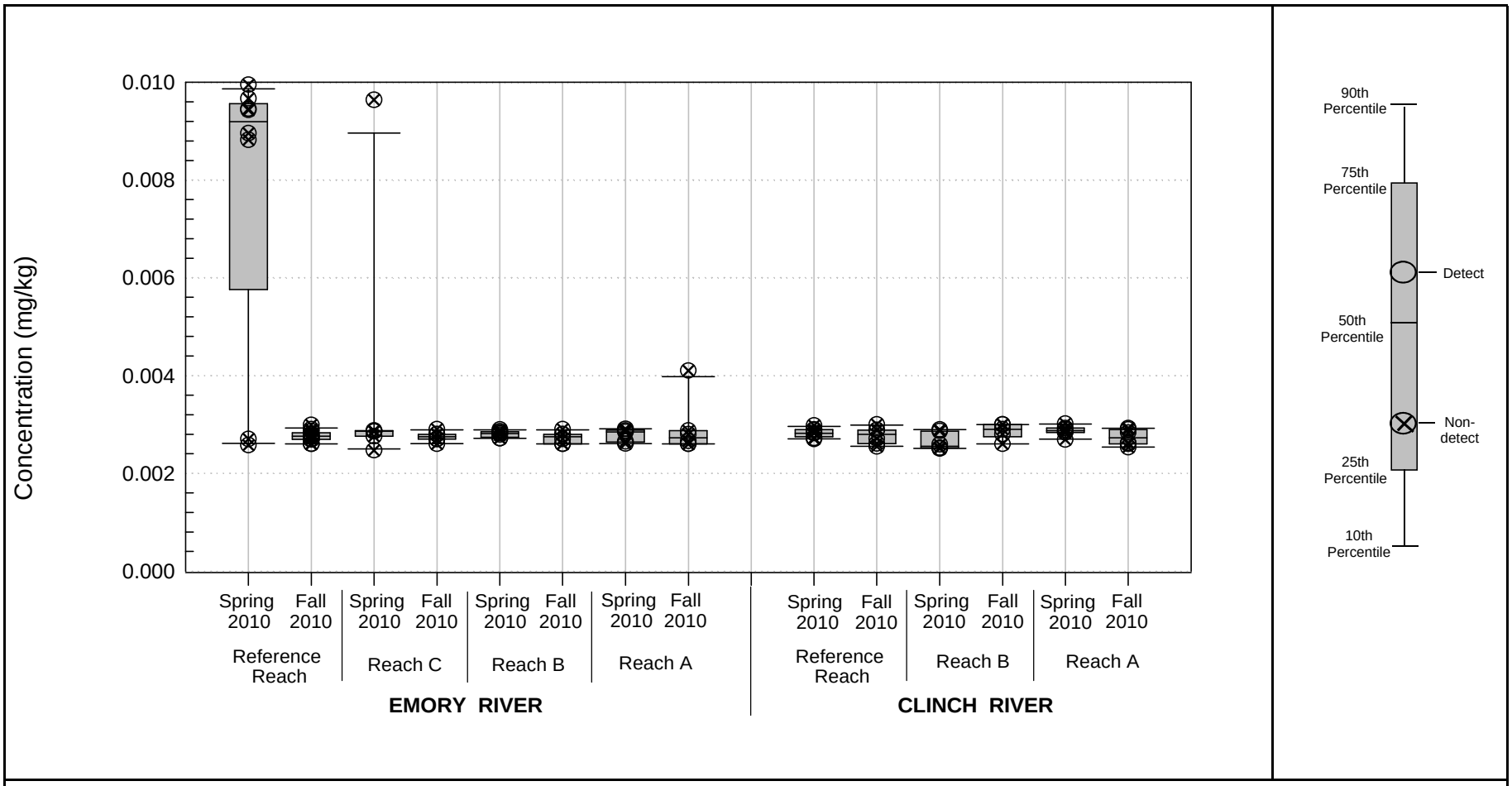
ARCADIS

Fillet
Channel Catfish - Potassium
TVA Kingston



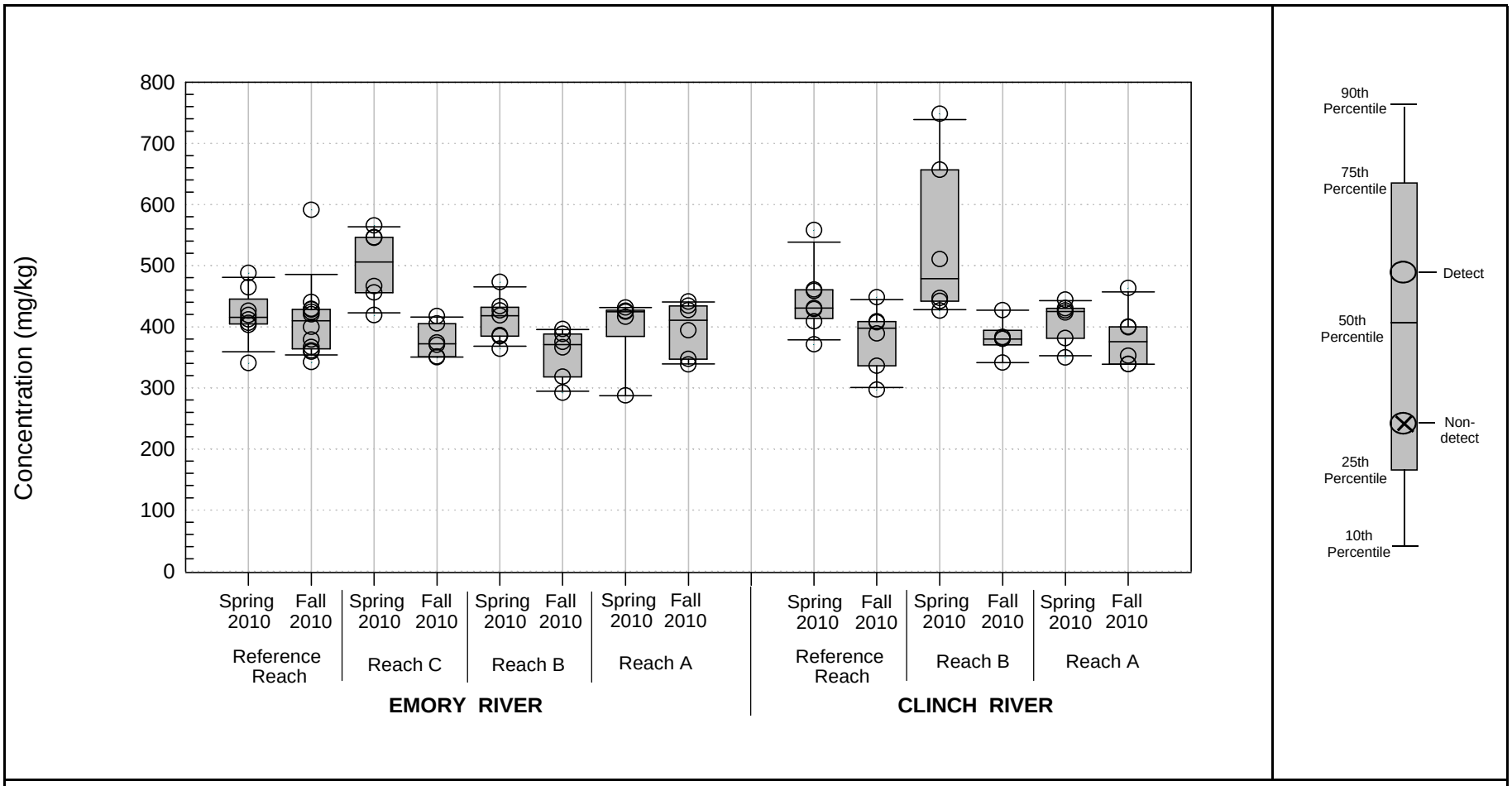
ARCADIS

Fillet
Channel Catfish - Selenium
TVA Kingston



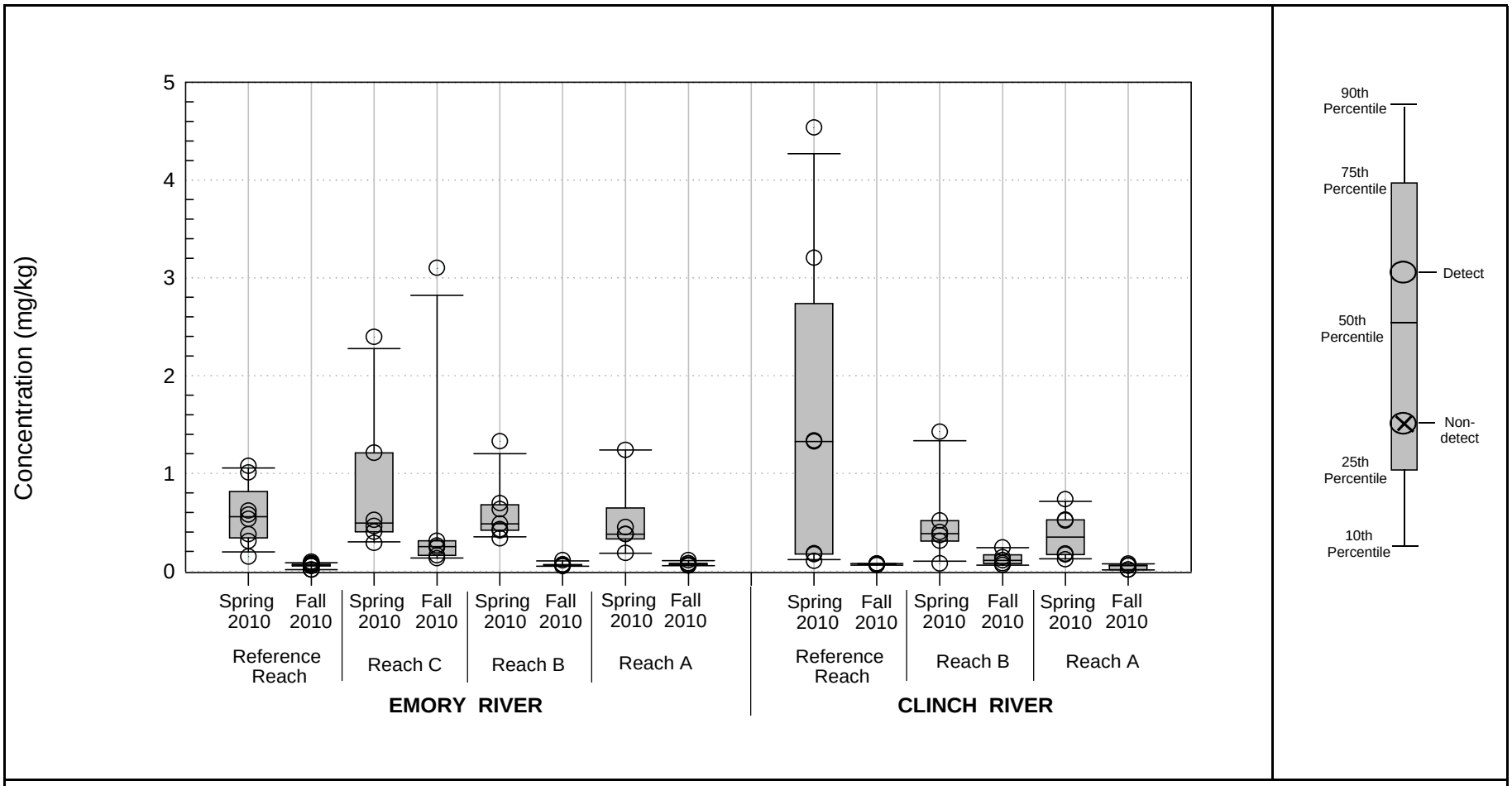
ARCADIS

Fillet
Channel Catfish - Silver
TVA Kingston



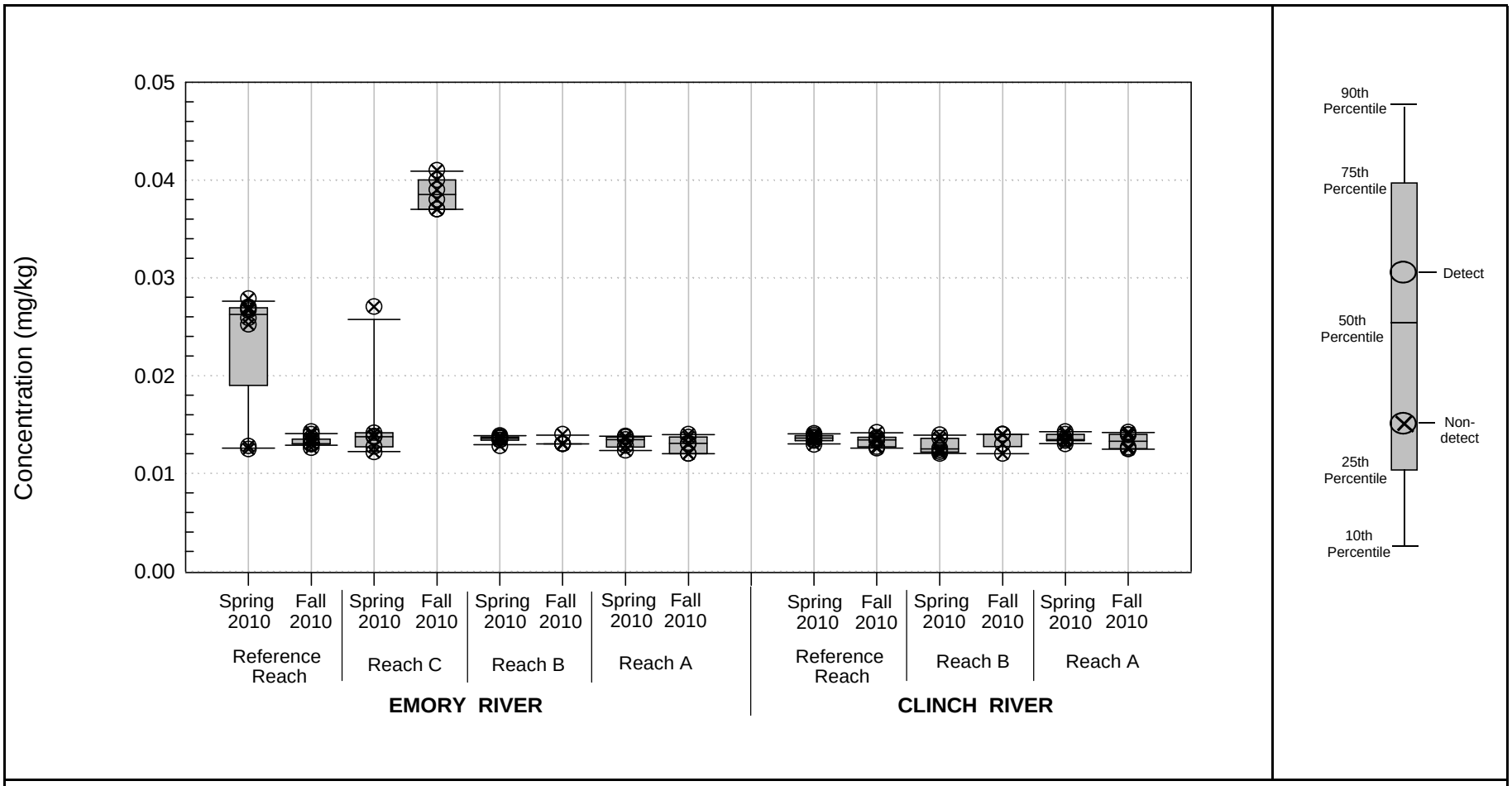
ARCADIS

Fillet
Channel Catfish - Sodium
TVA Kingston



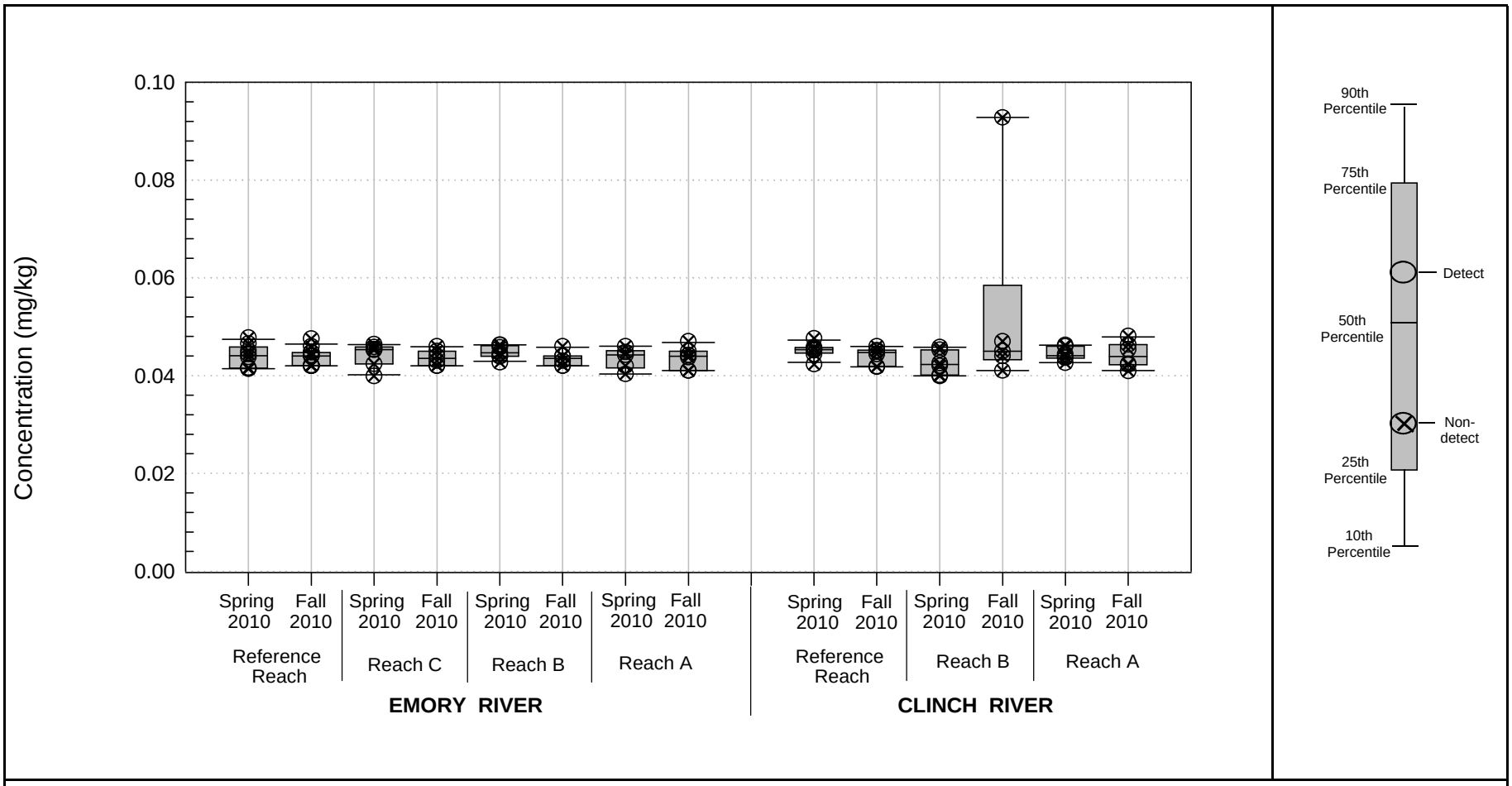
ARCADIS

Fillet
Channel Catfish - Strontium
TVA Kingston



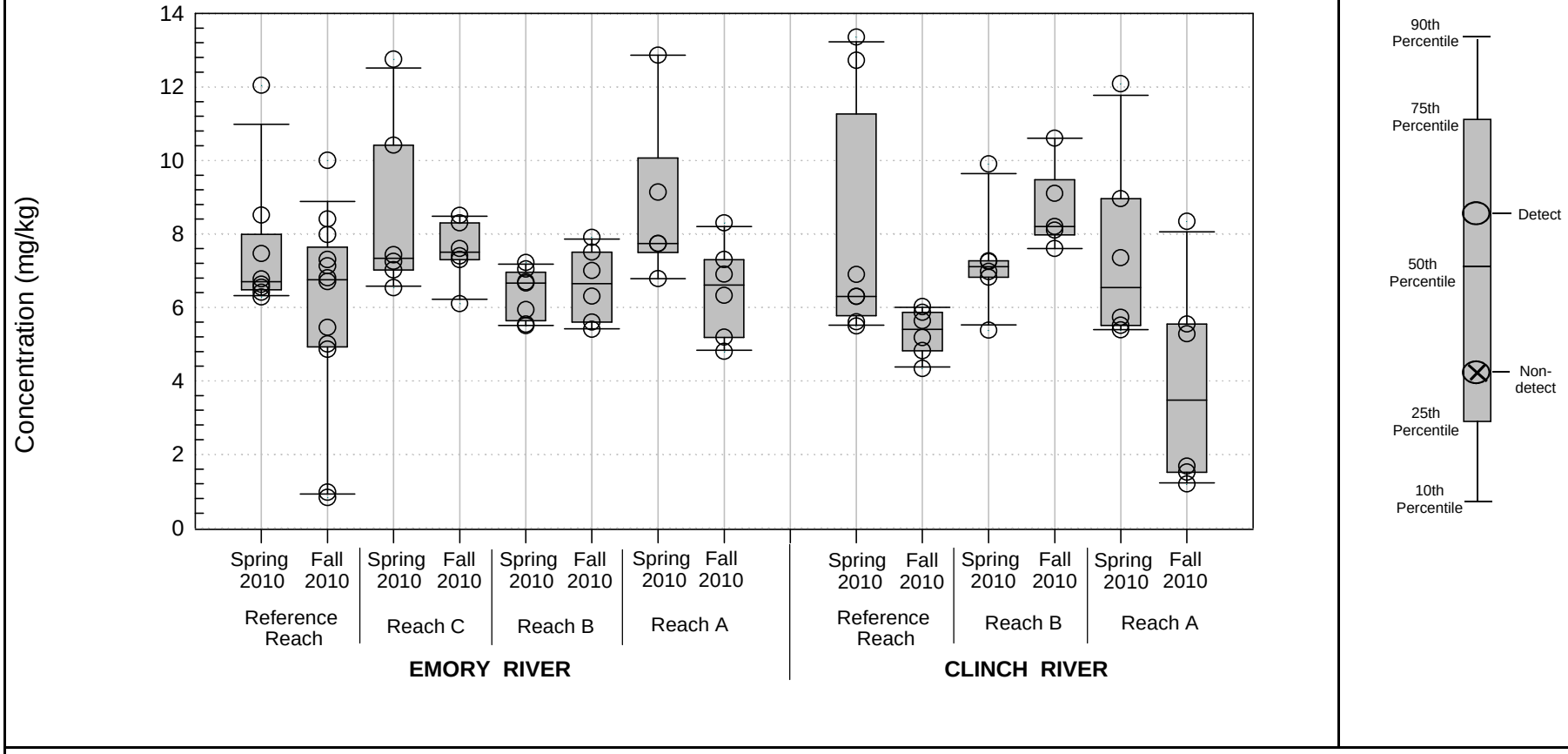
ARCADIS

Fillet
Channel Catfish - Thallium
TVA Kingston



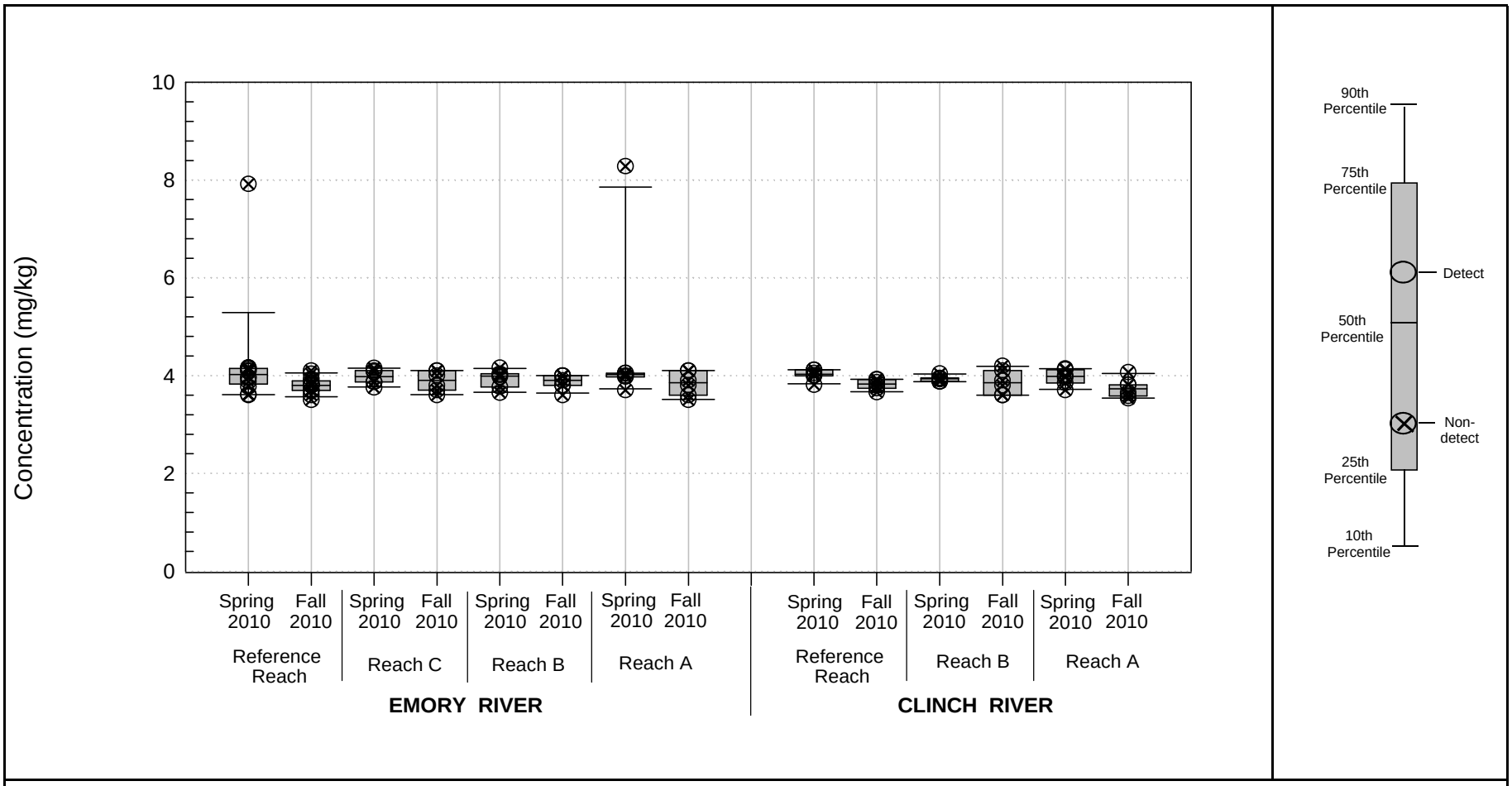
ARCADIS

Fillet
Channel Catfish - Vanadium
TVA Kingston



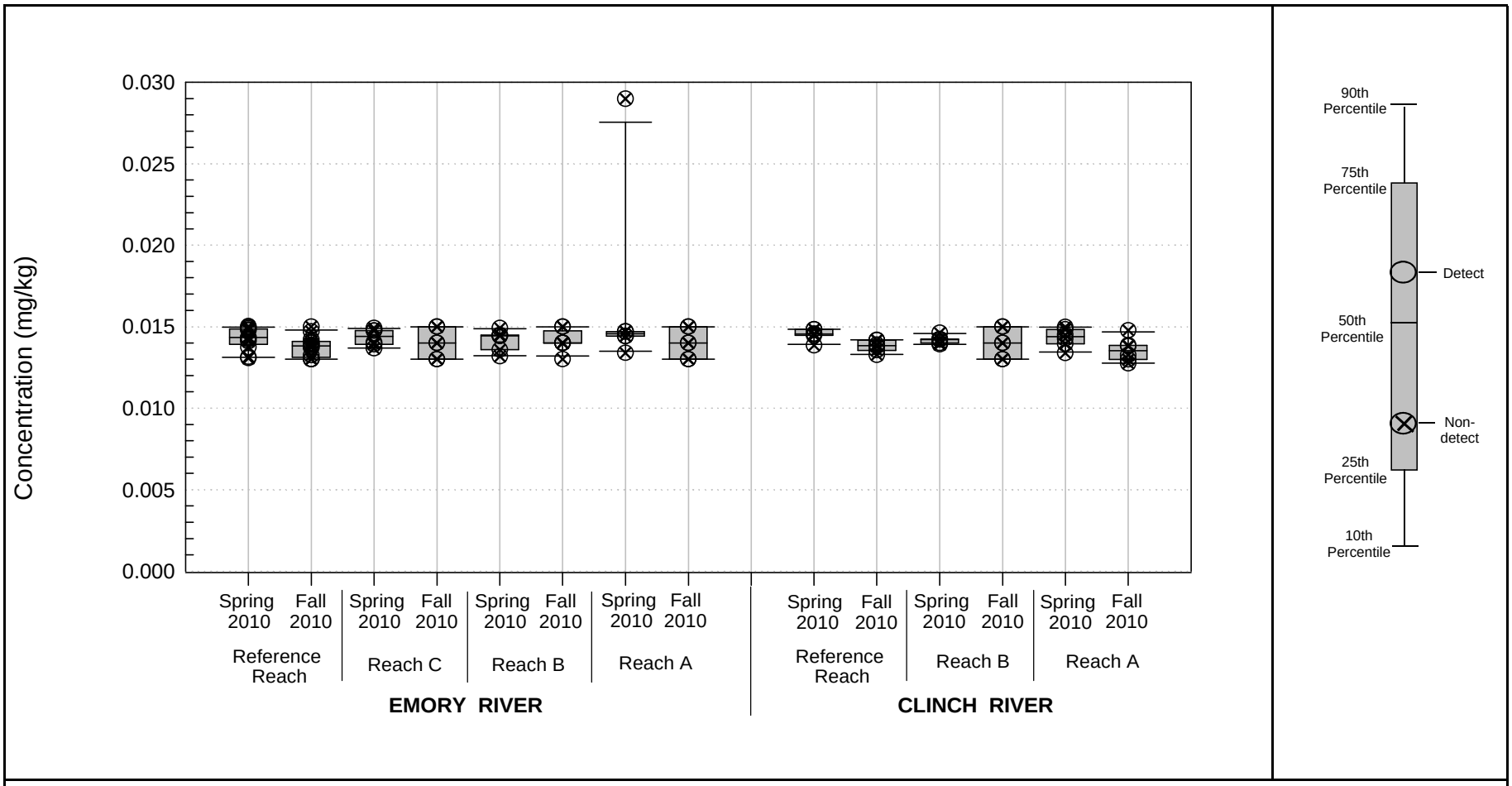
ARCADIS

Fillet
Channel Catfish - Zinc
TVA Kingston



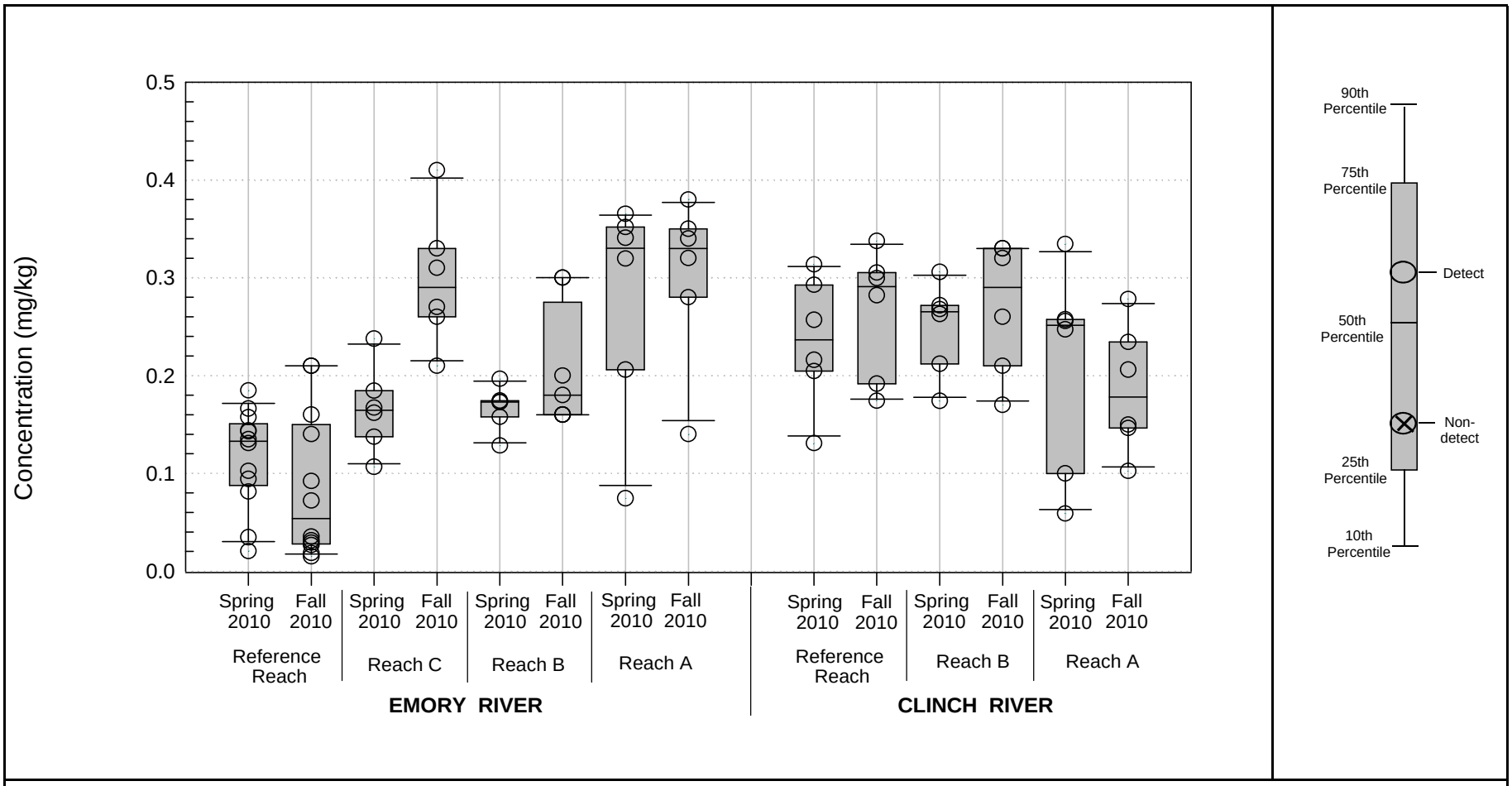
ARCADIS

Fillet
Largemouth Bass - Aluminum
TVA Kingston



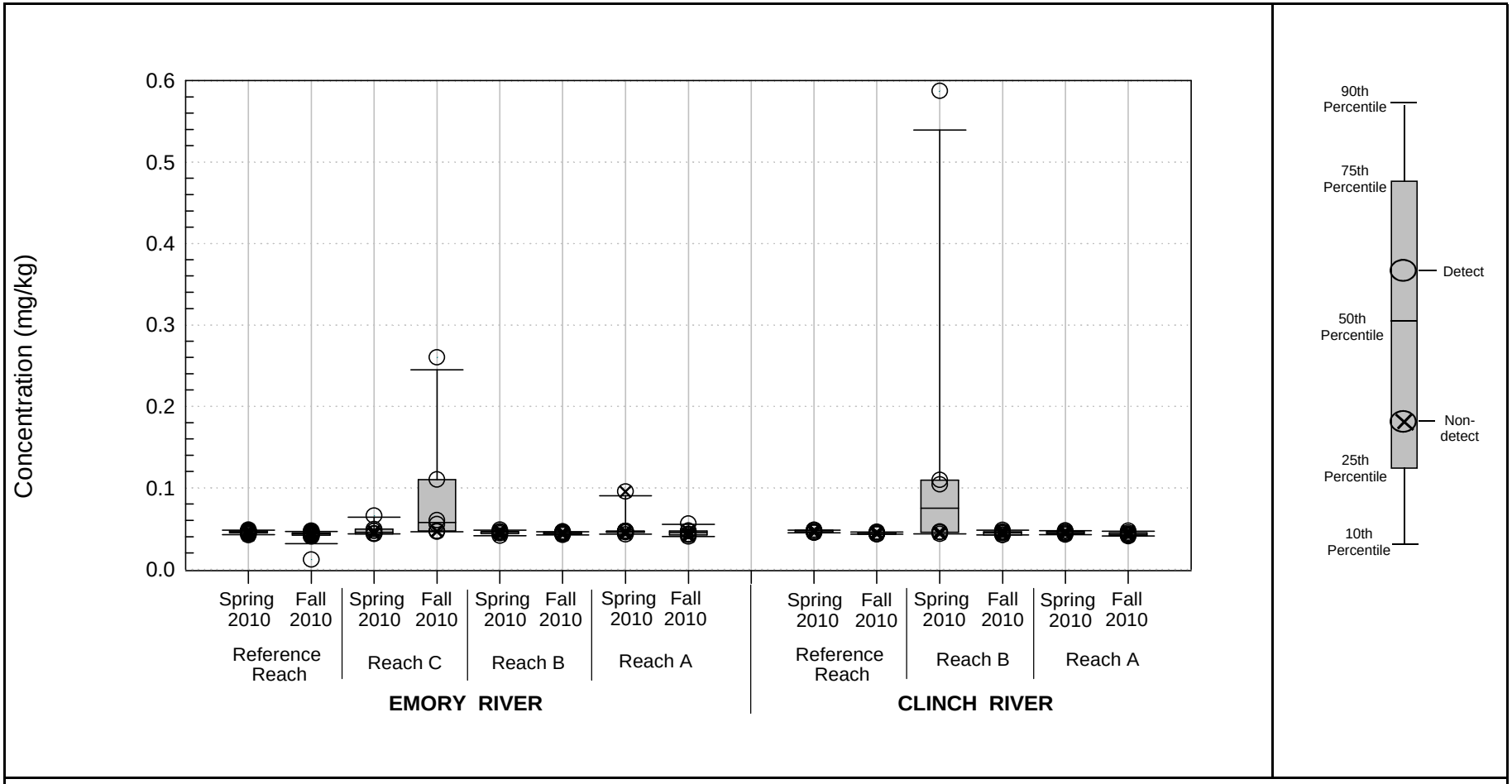
ARCADIS

Fillet
Largemouth Bass - Antimony
TVA Kingston



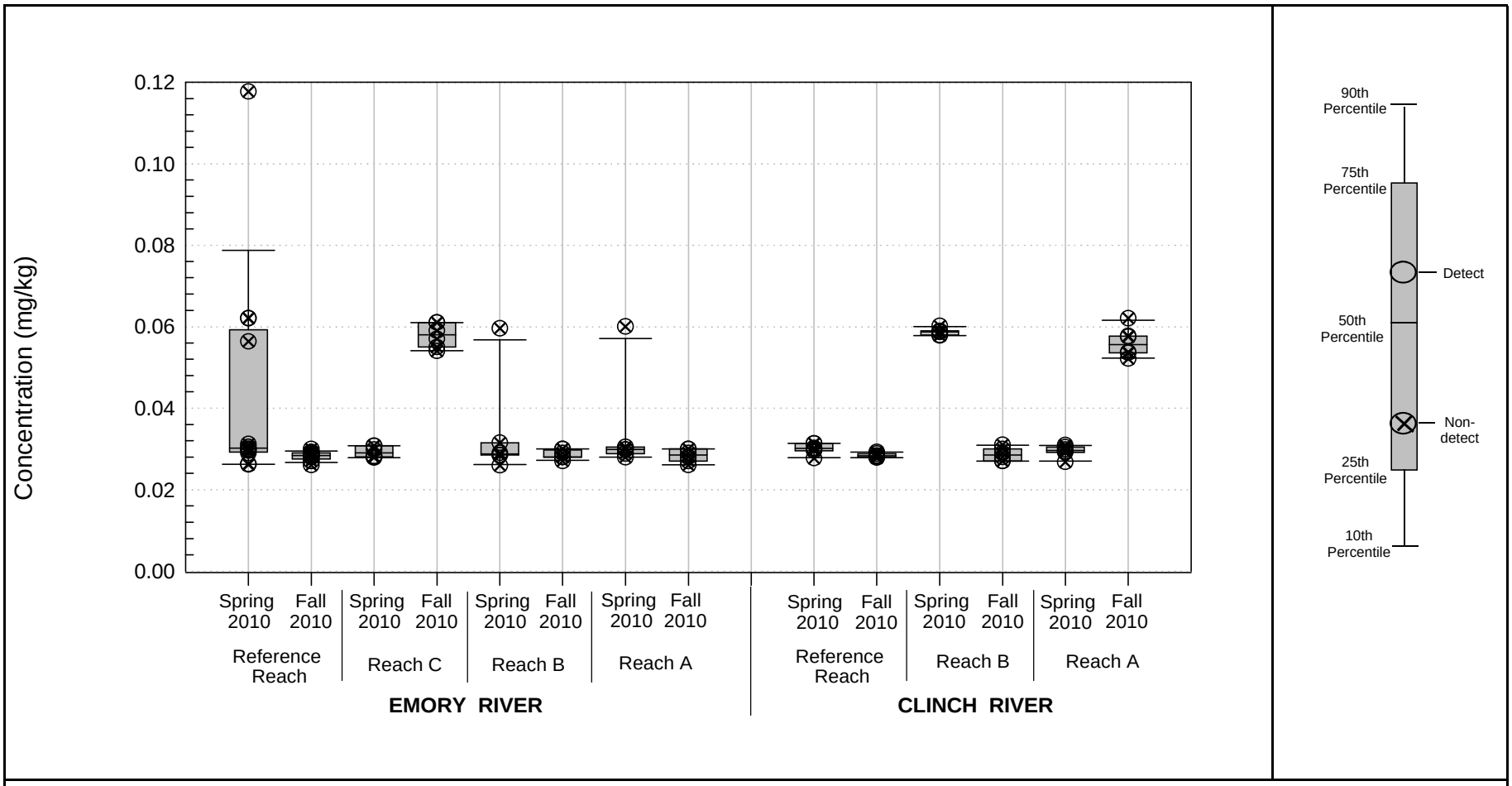
ARCADIS

Fillet
Largemouth Bass - Arsenic
TVA Kingston



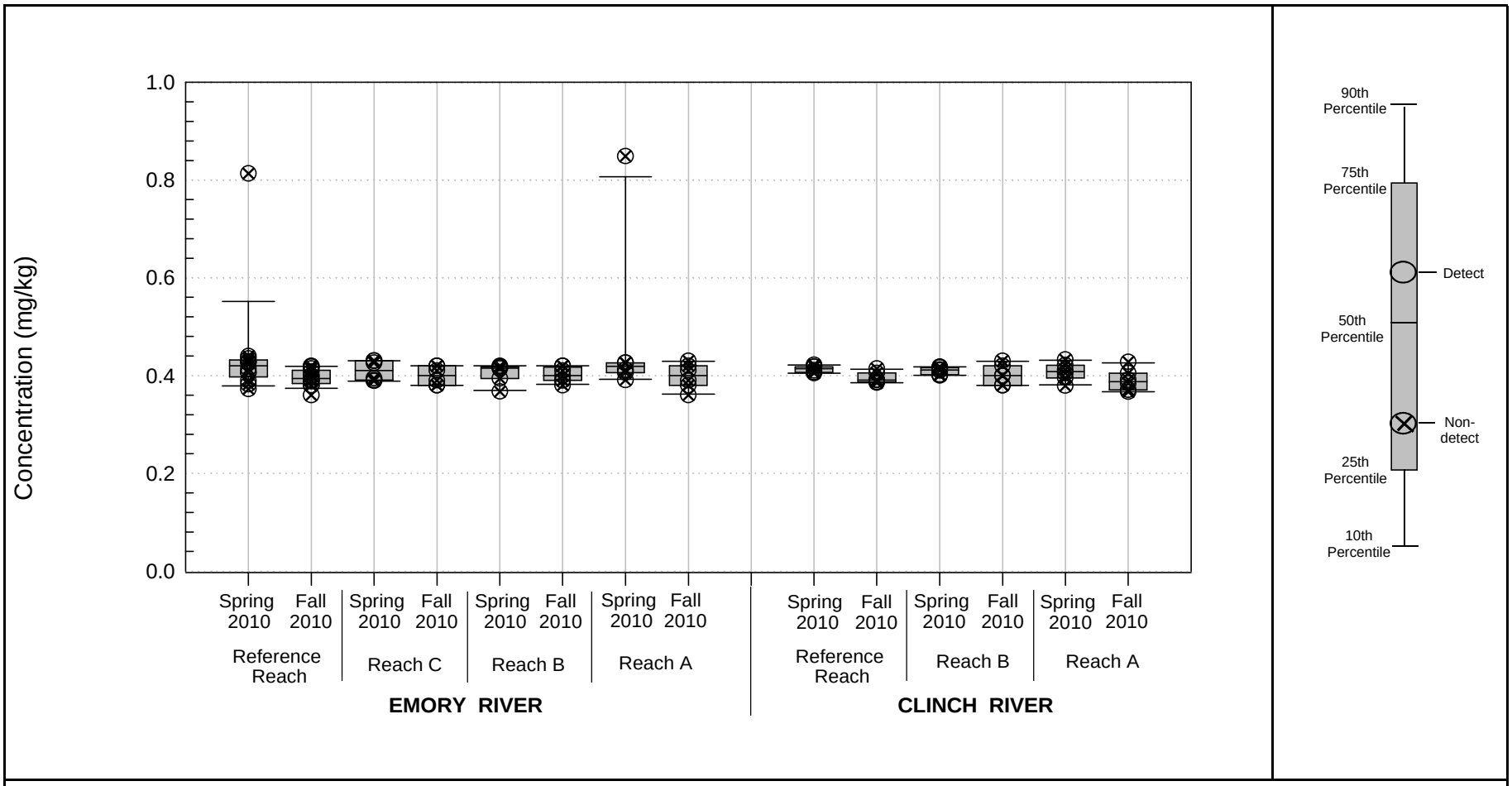
ARCADIS

Fillet
Largemouth Bass - Barium
TVA Kingston



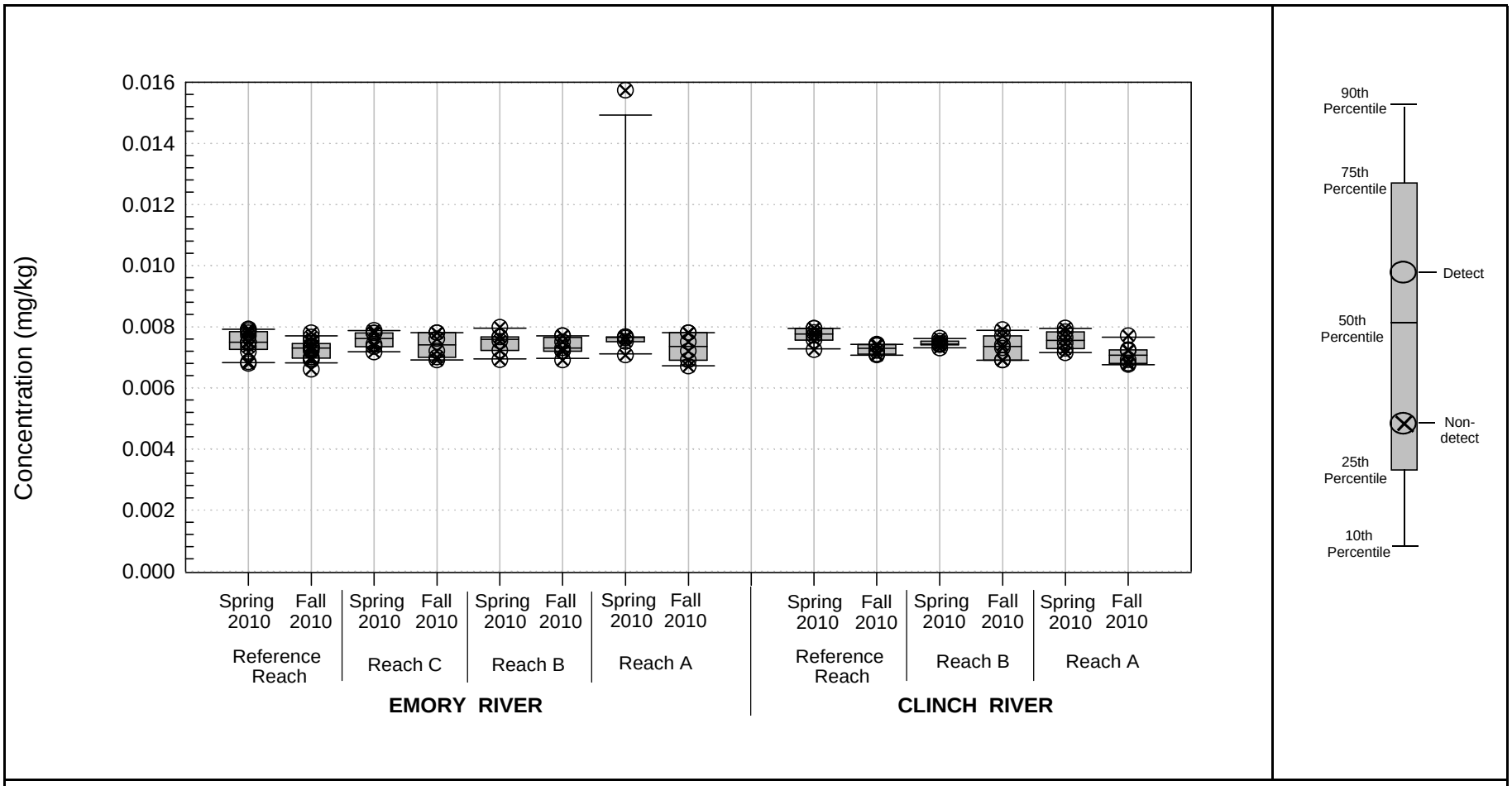
ARCADIS

Fillet
Largemouth Bass - Beryllium
TVA Kingston



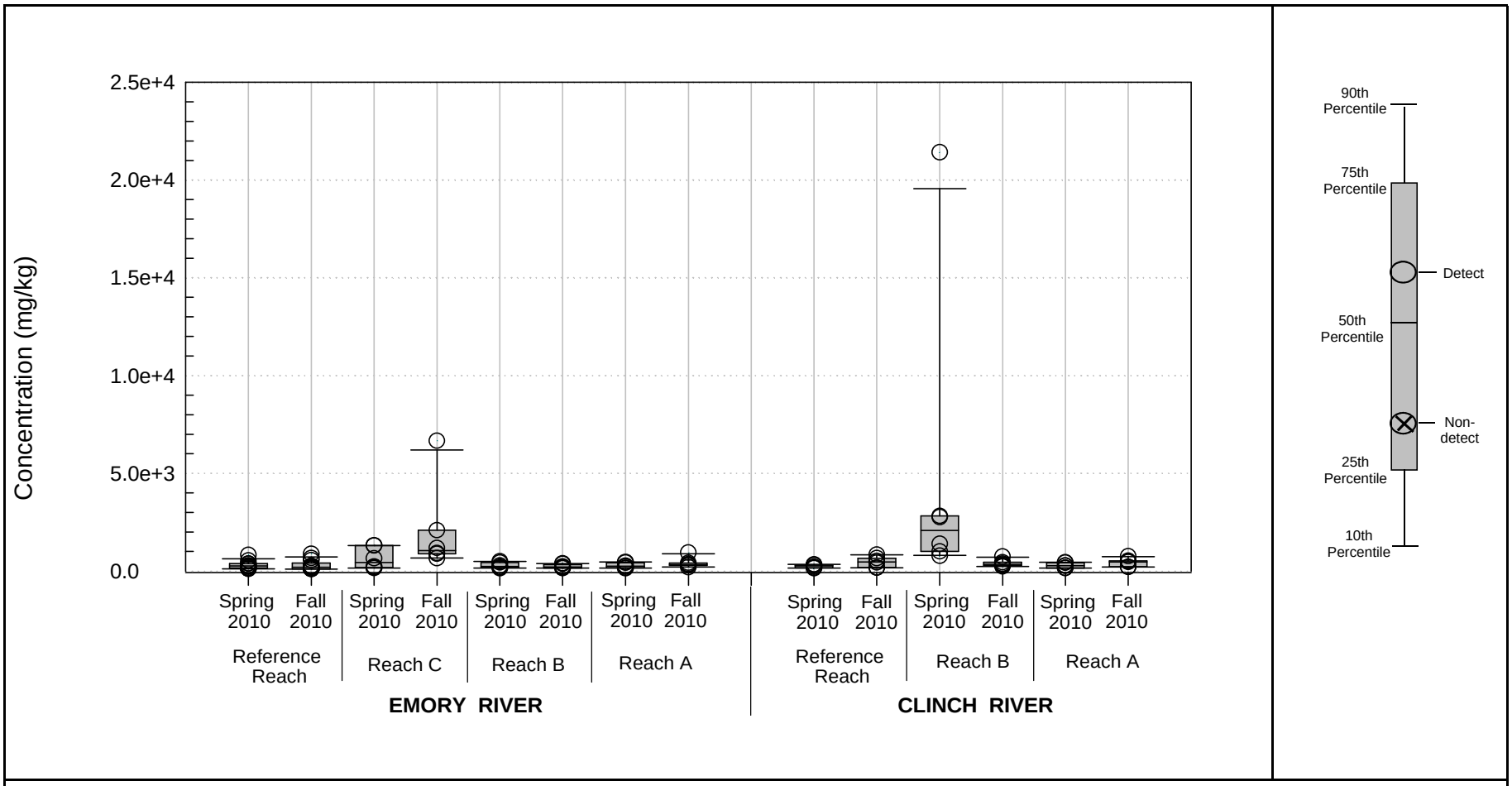
ARCADIS

Fillet
Largemouth Bass - Boron
TVA Kingston



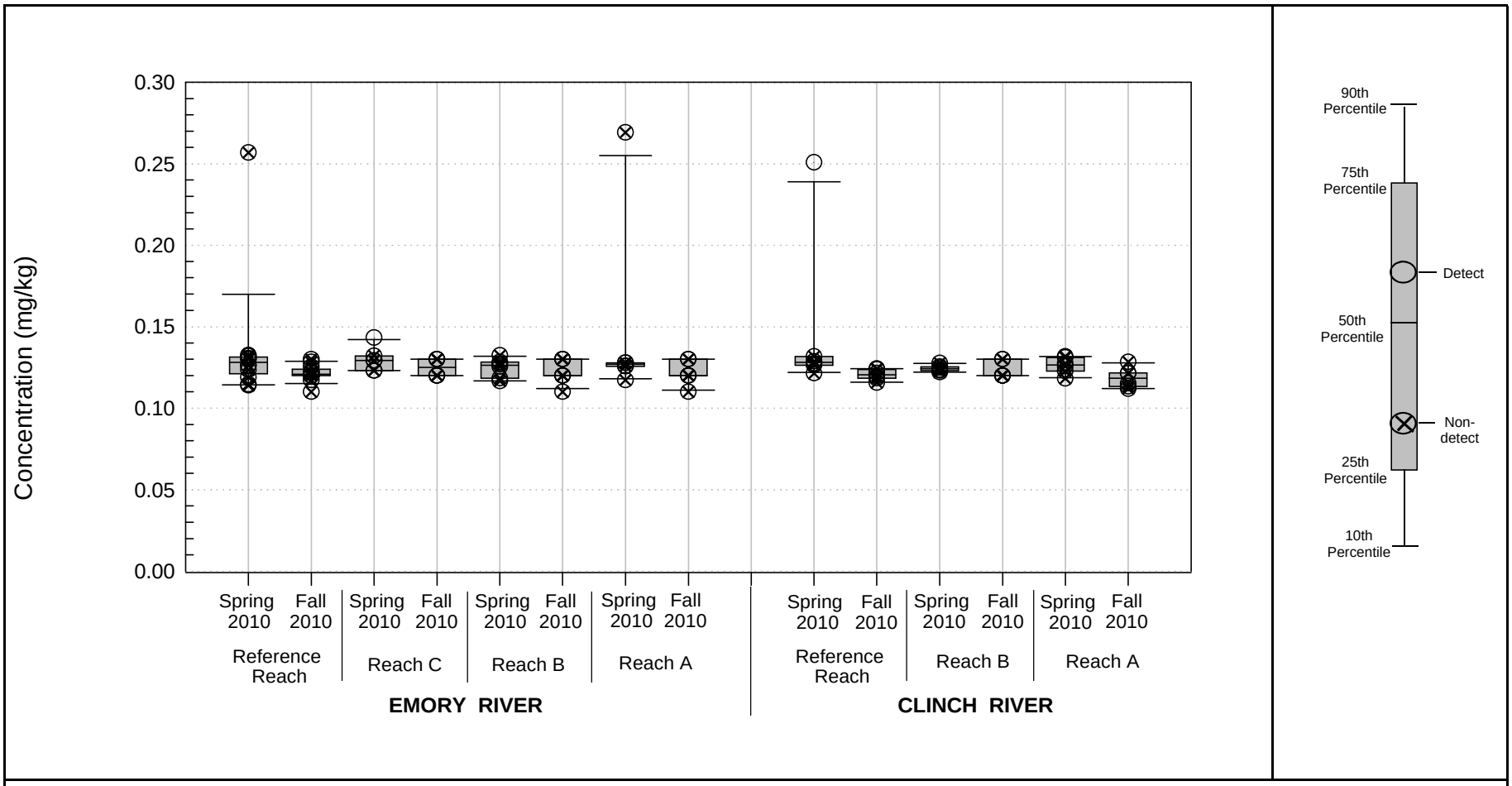
ARCADIS

Fillet
Largemouth Bass - Cadmium
TVA Kingston



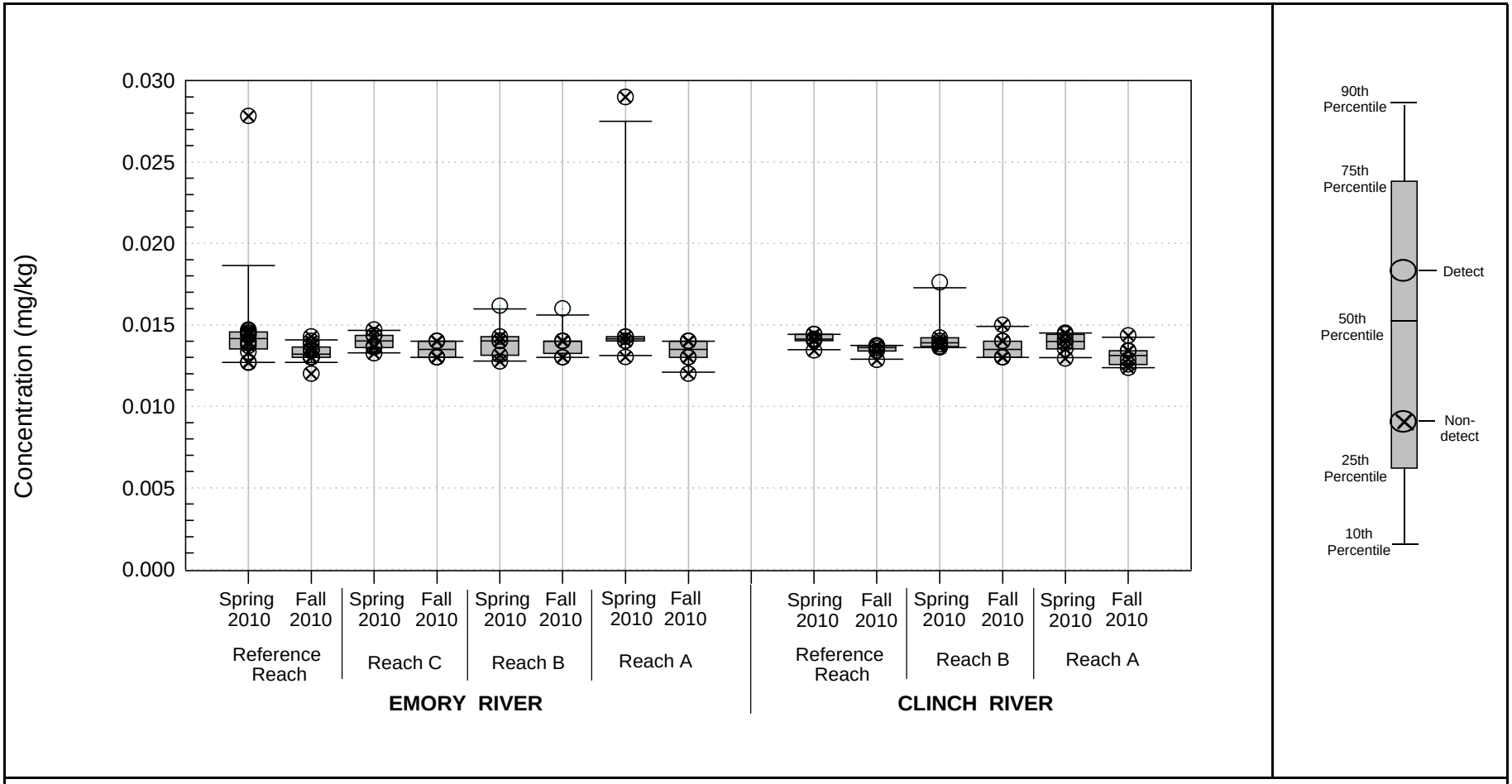
ARCADIS

Fillet
Largemouth Bass - Calcium
TVA Kingston



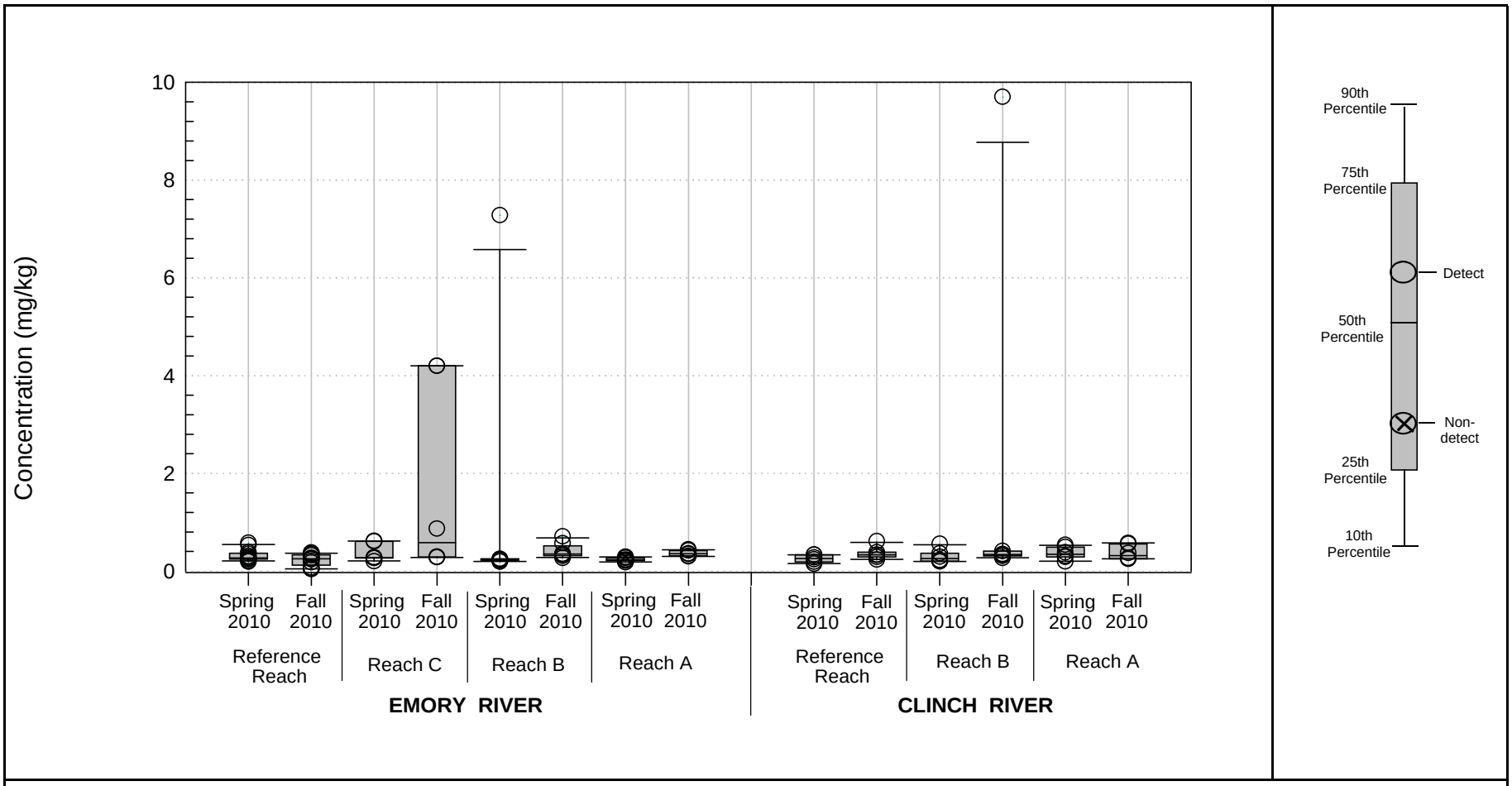
ARCADIS

Fillet
Largemouth Bass - Chromium
TVA Kingston



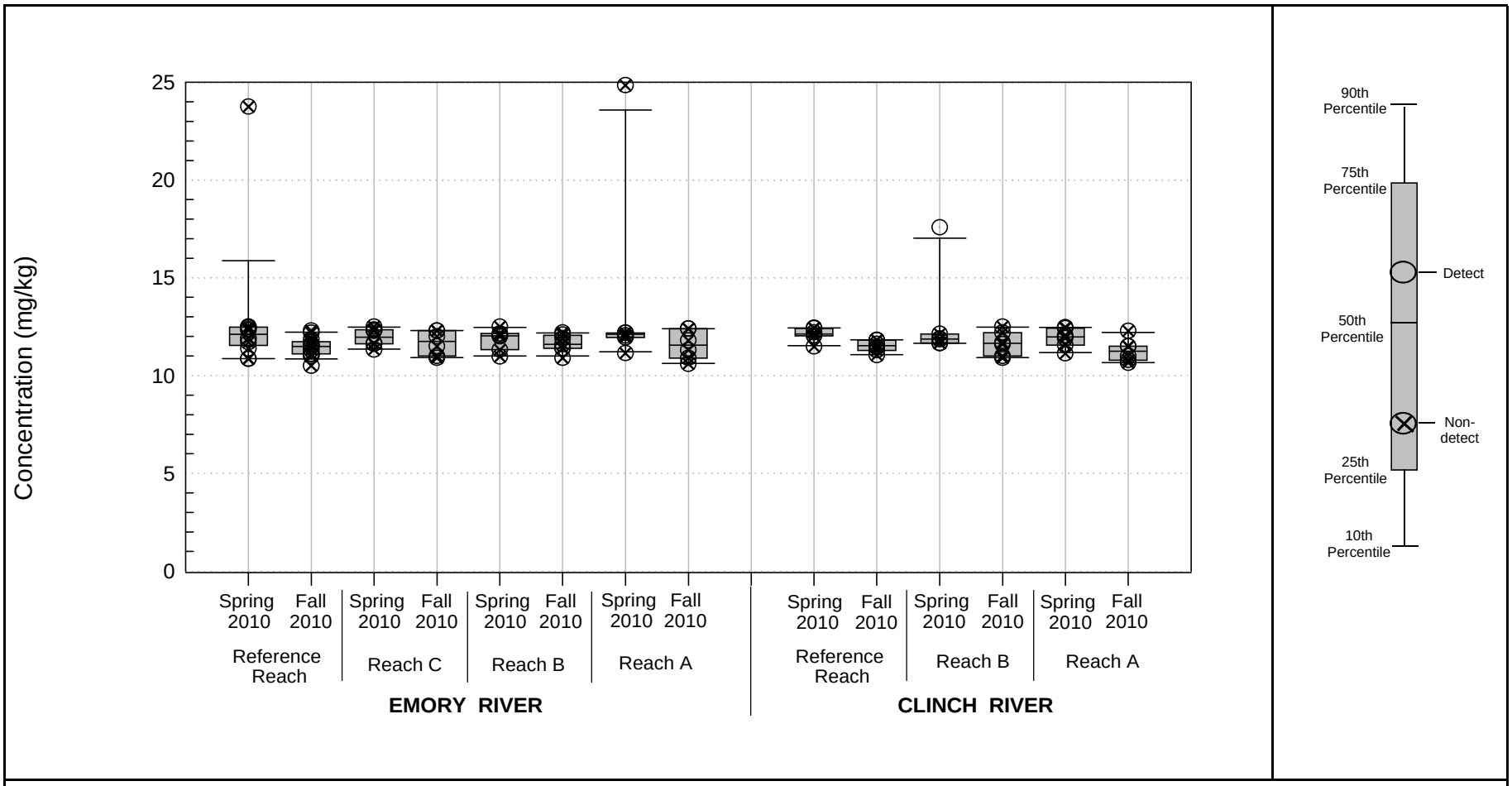
ARCADIS

Fillet
Largemouth Bass - Cobalt
TVA Kingston



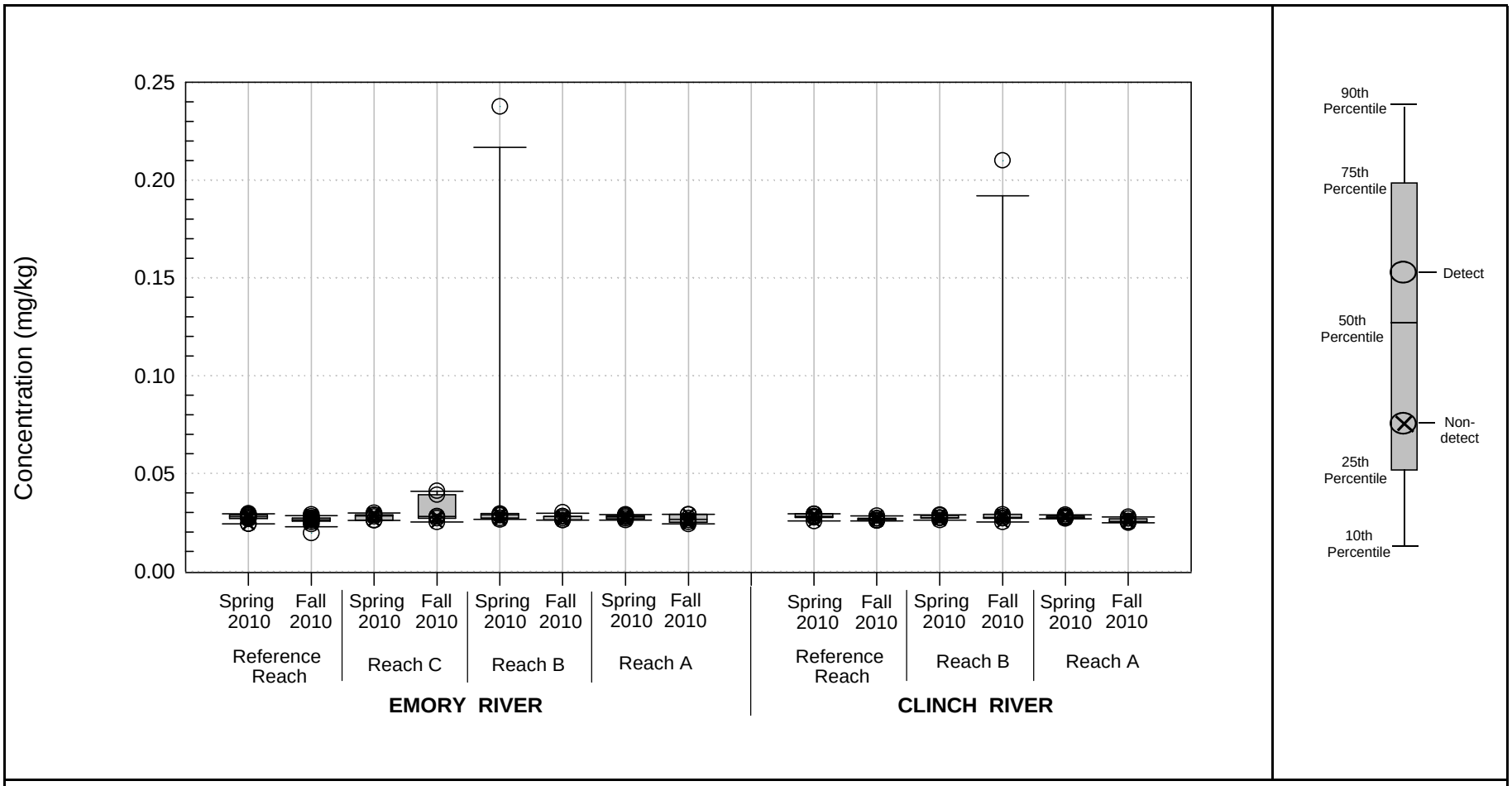
ARCADIS

Fillet
Largemouth Bass - Copper
TVA Kingston



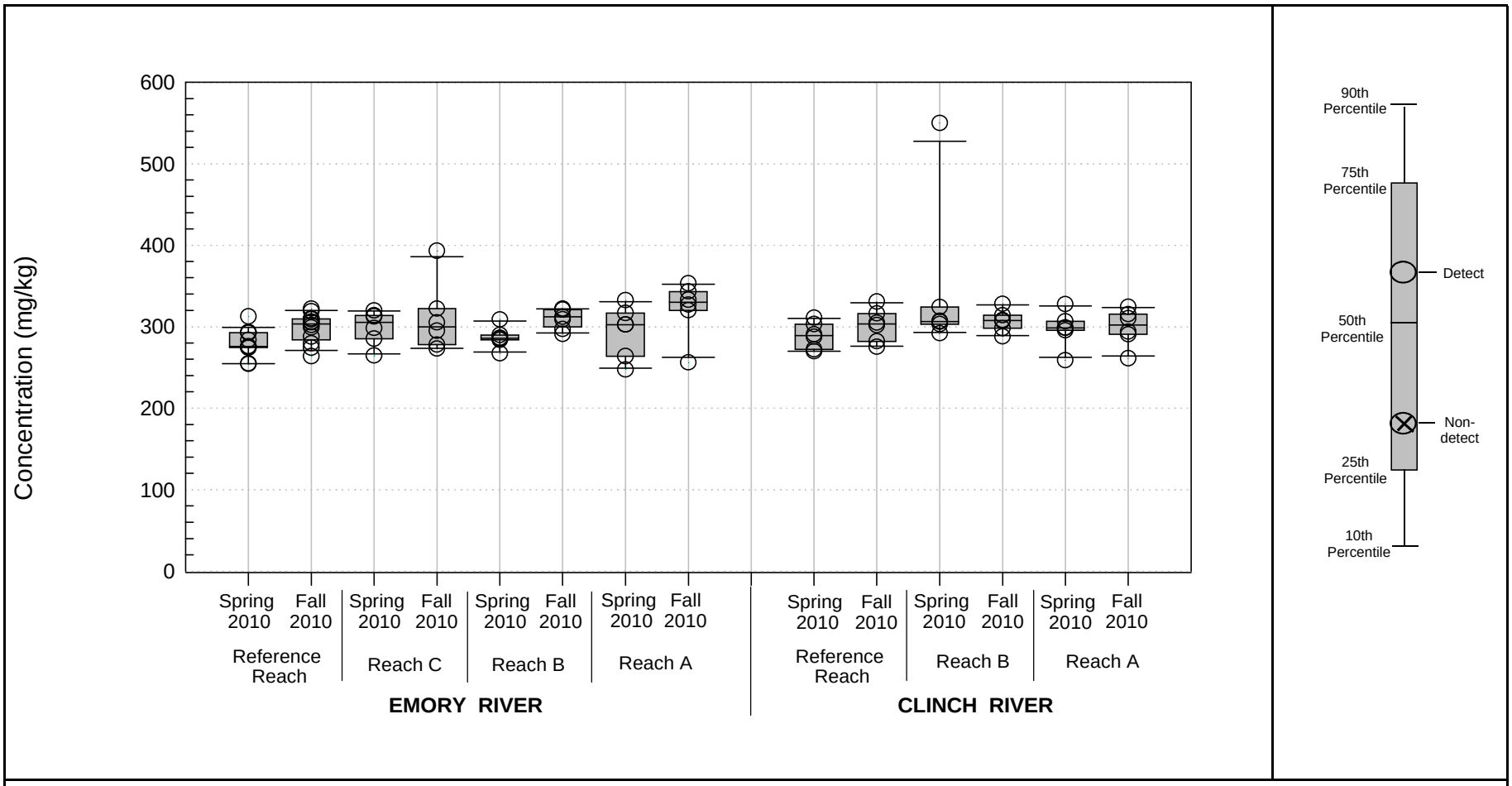
ARCADIS

Fillet
Largemouth Bass - Iron
TVA Kingston



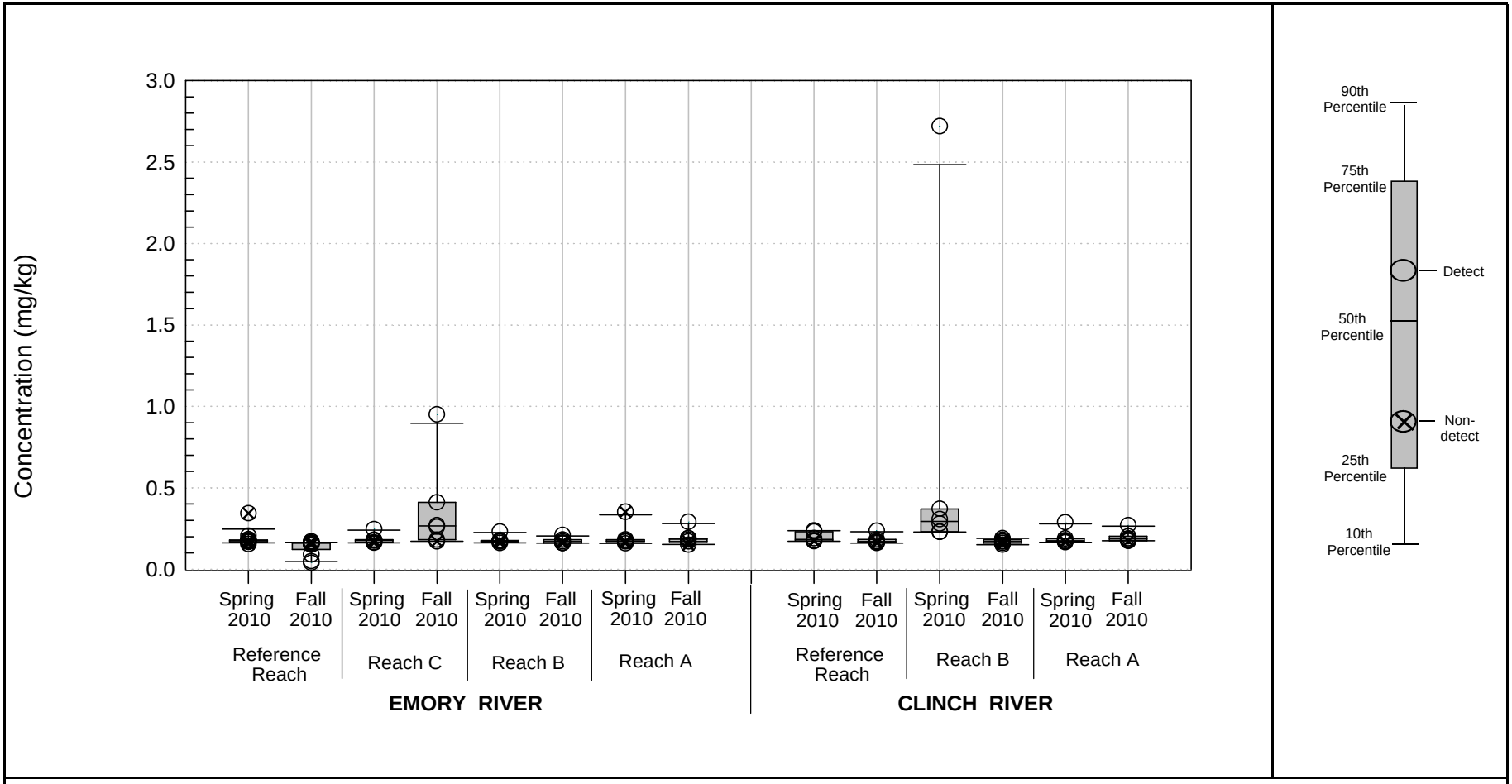
ARCADIS

Fillet
Largemouth Bass - Lead
TVA Kingston



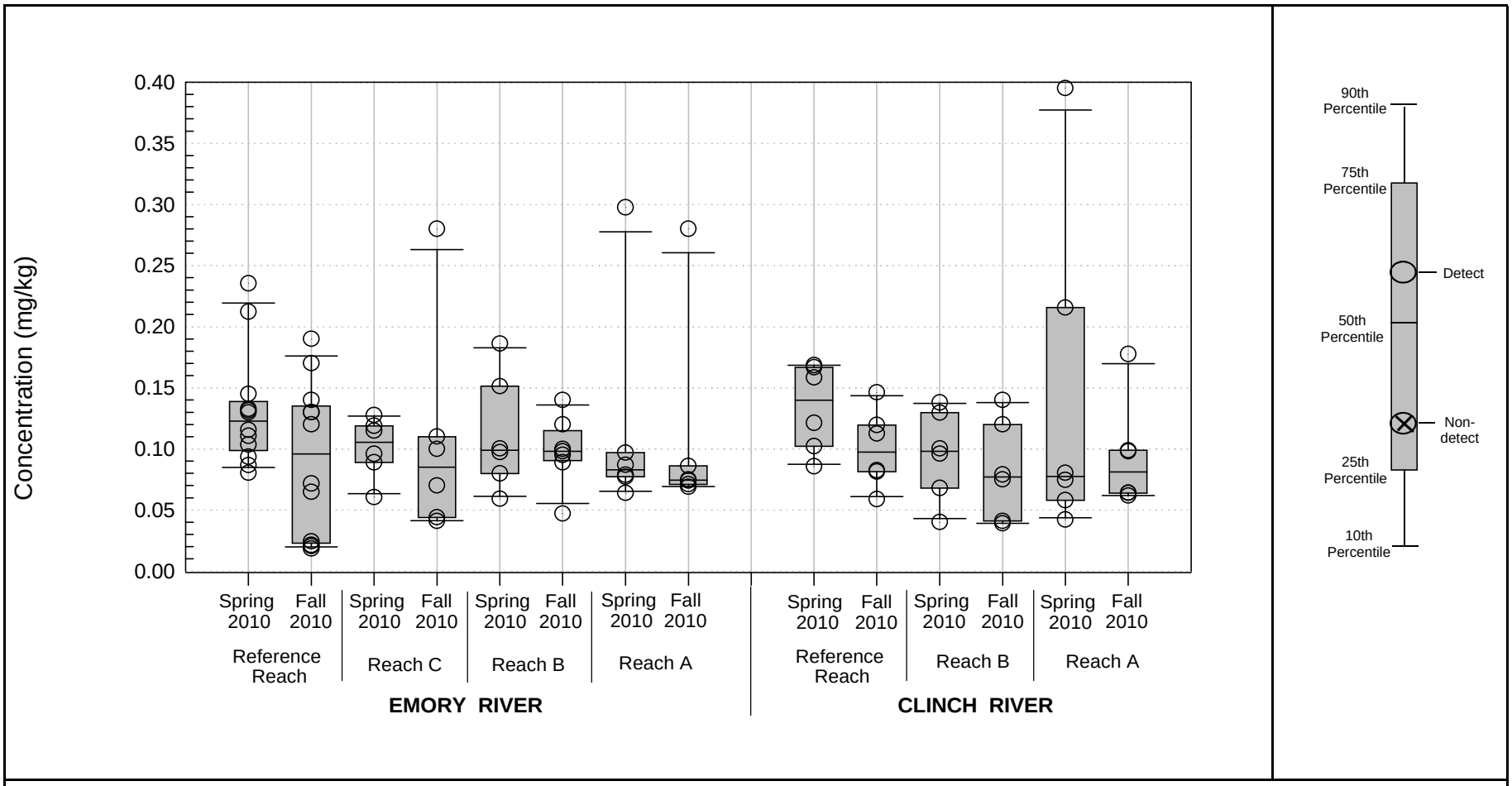
ARCADIS

Fillet
Largemouth Bass - Magnesium
TVA Kingston



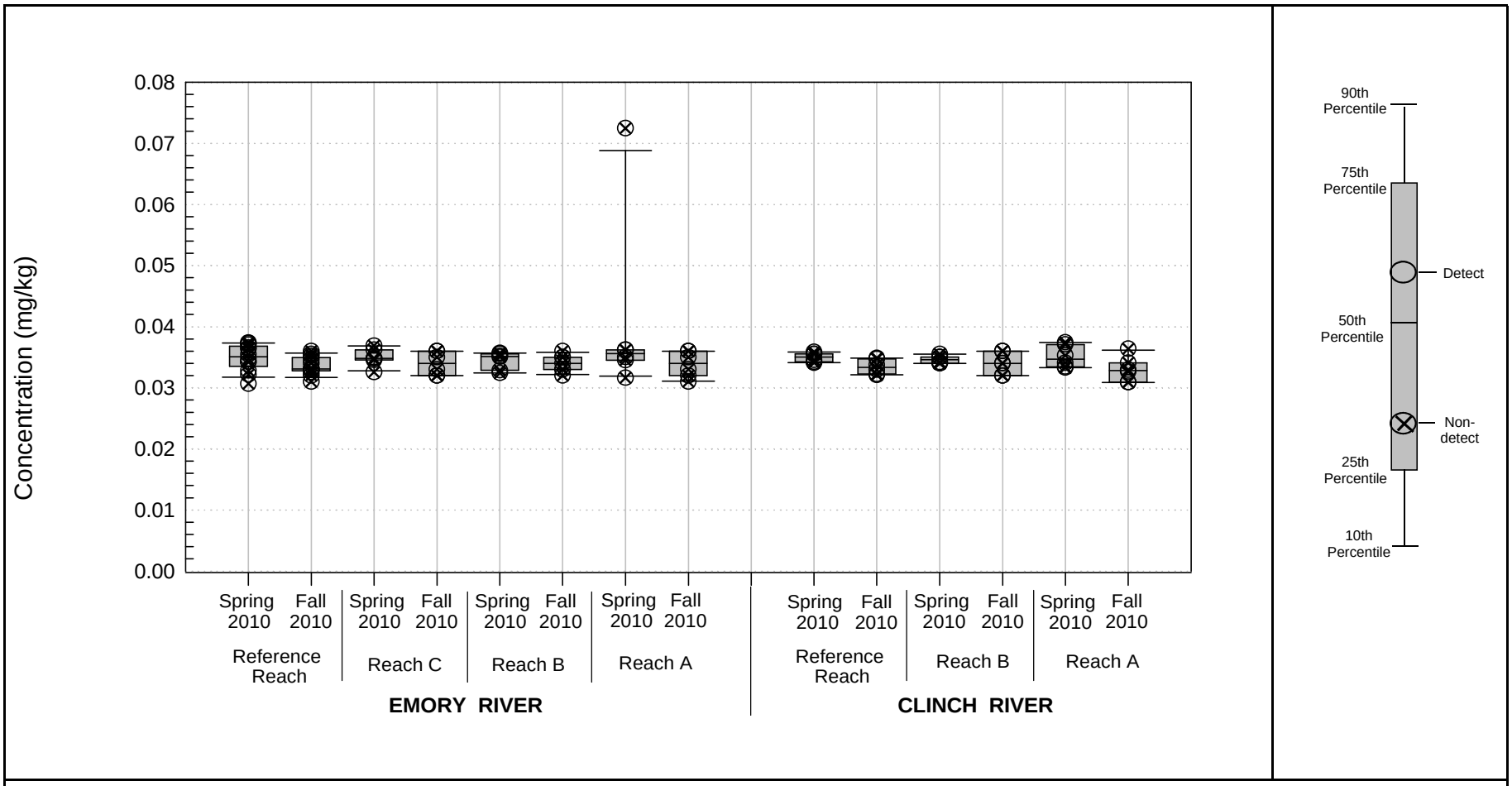
ARCADIS

Fillet
Largemouth Bass - Manganese
TVA Kingston



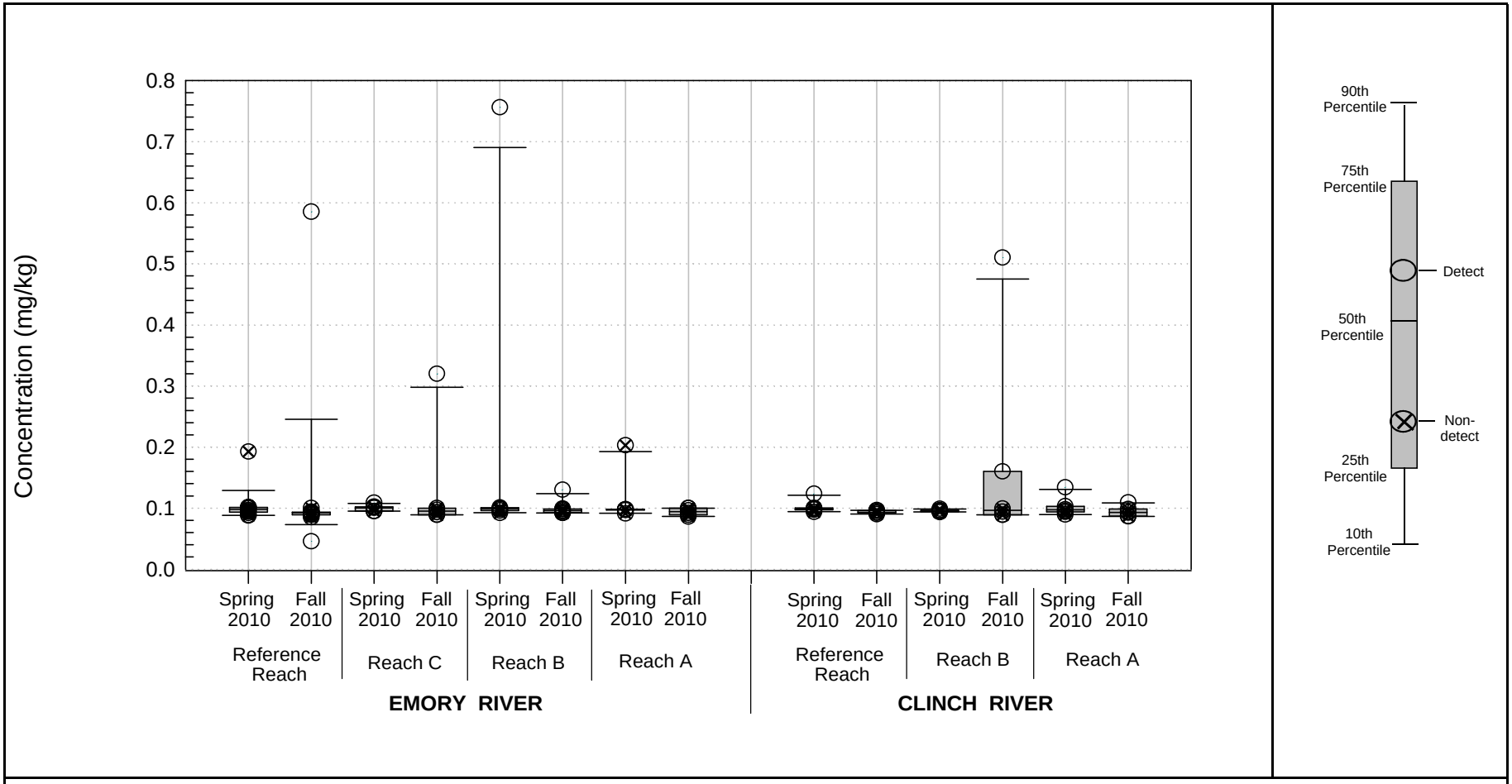
ARCADIS

Fillet
Largemouth Bass - Mercury
TVA Kingston



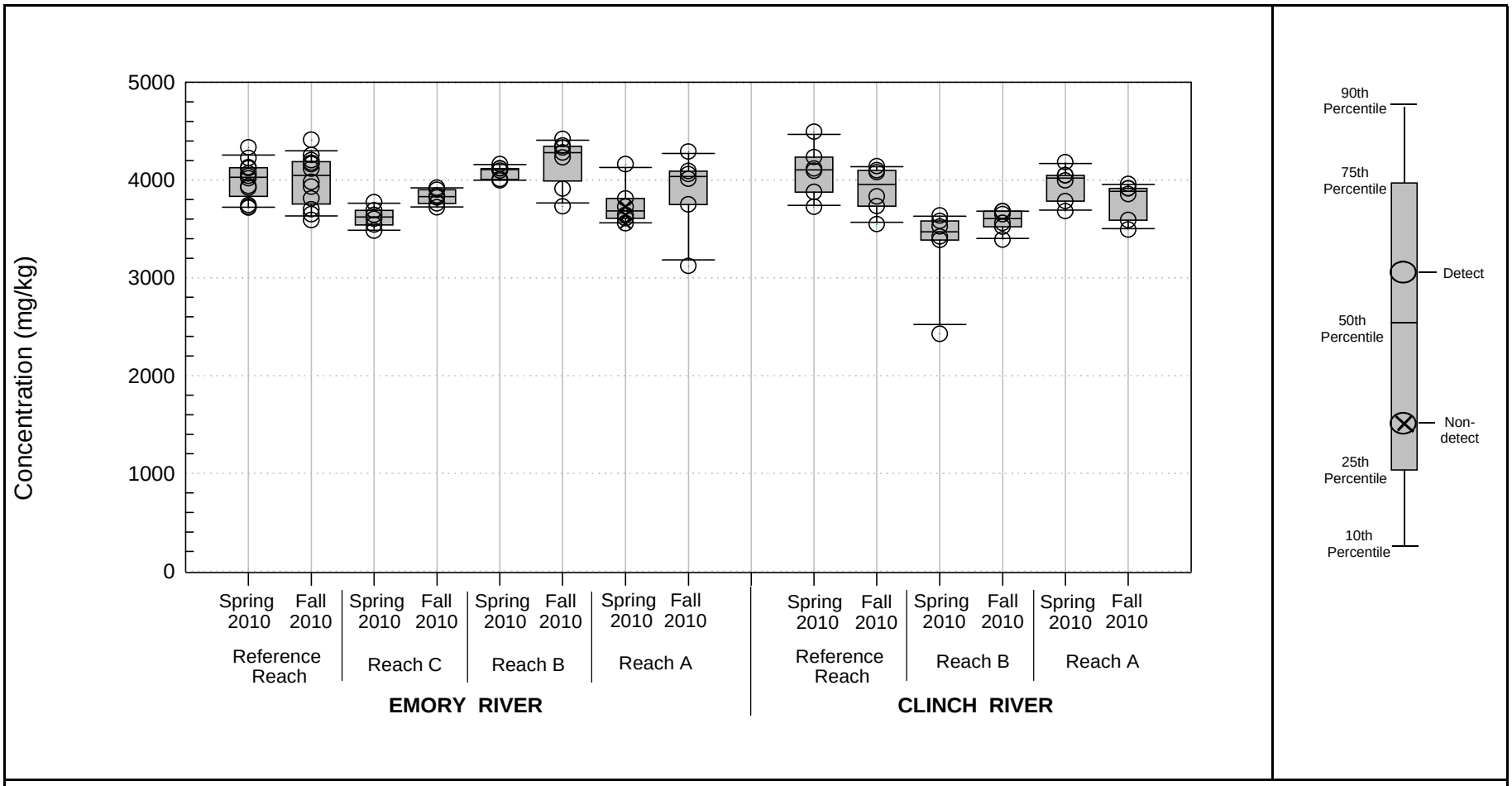
ARCADIS

Fillet
Largemouth Bass - Molybdenum
TVA Kingston



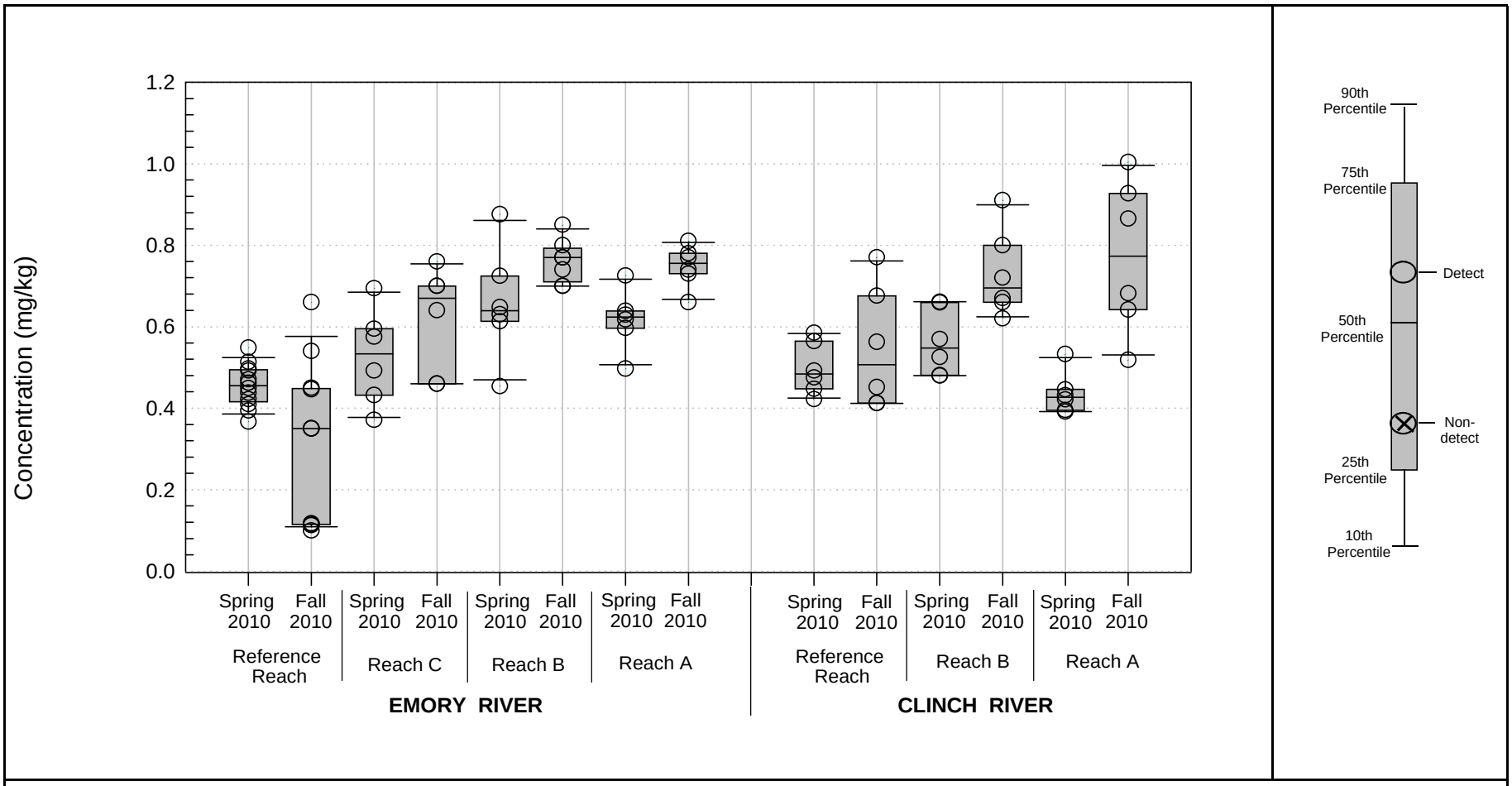
ARCADIS

Fillet
Largemouth Bass - Nickel
TVA Kingston



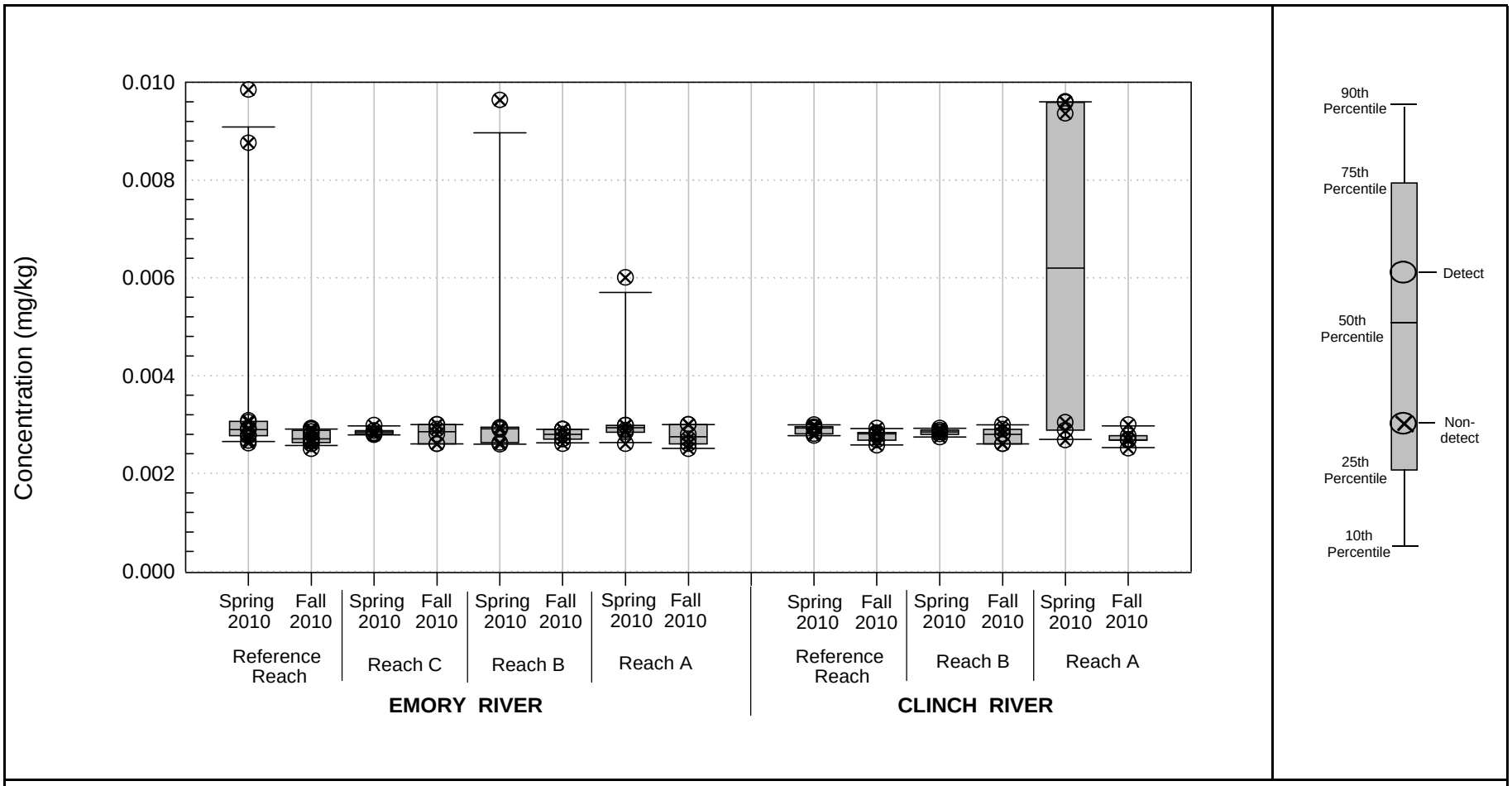
ARCADIS

Fillet
Largemouth Bass - Potassium
TVA Kingston



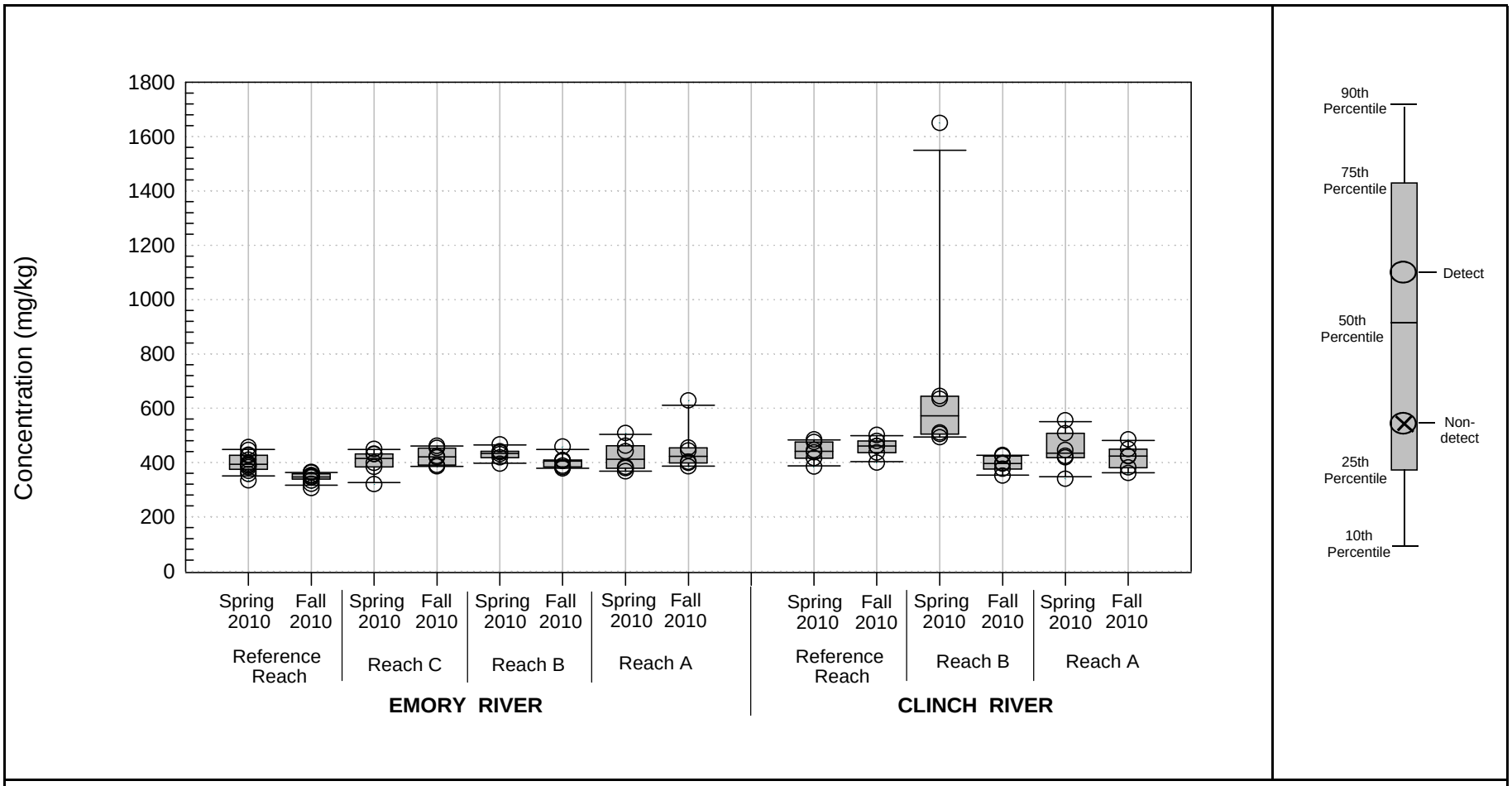
ARCADIS

Fillet
Largemouth Bass - Selenium
TVA Kingston



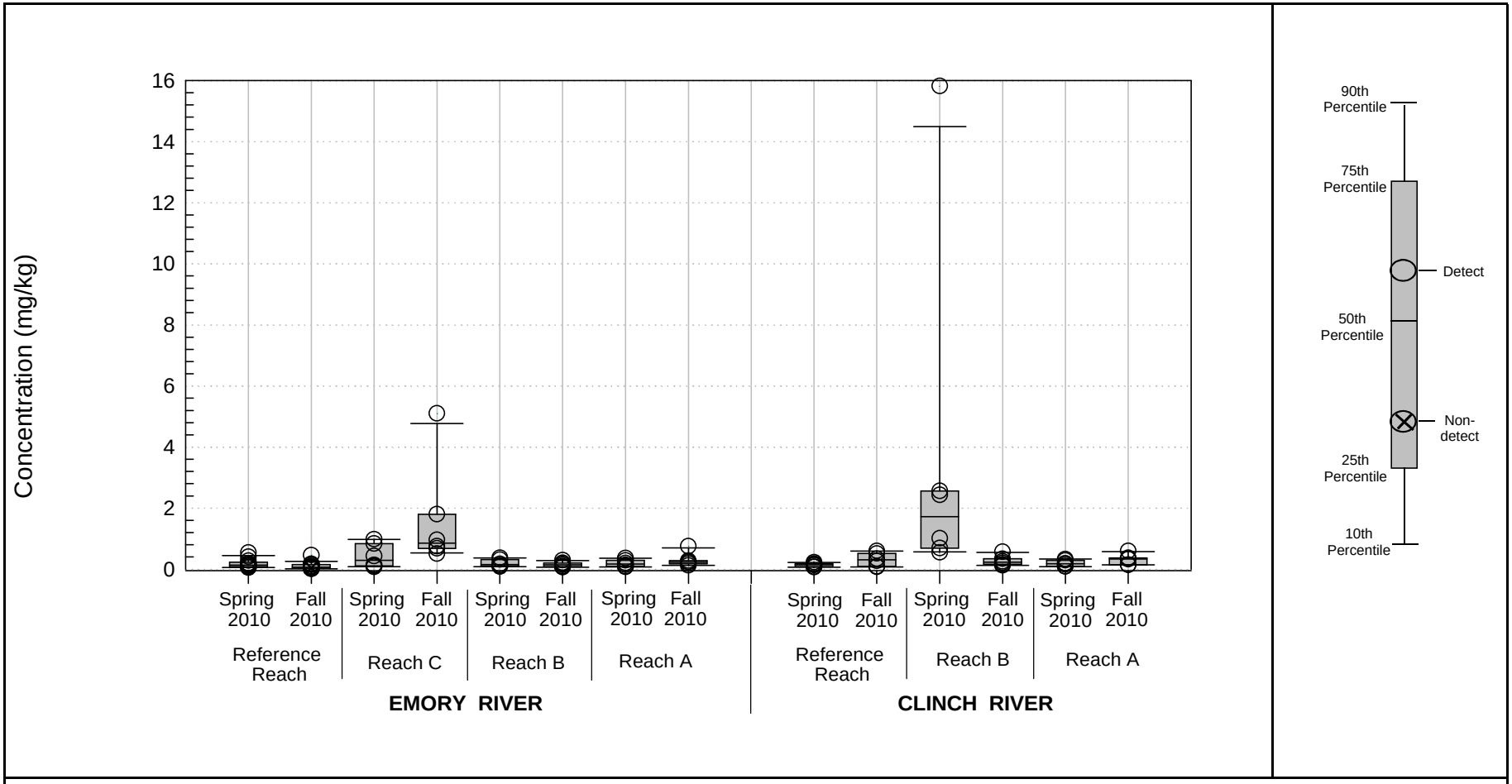
ARCADIS

Fillet
Largemouth Bass - Silver
TVA Kingston



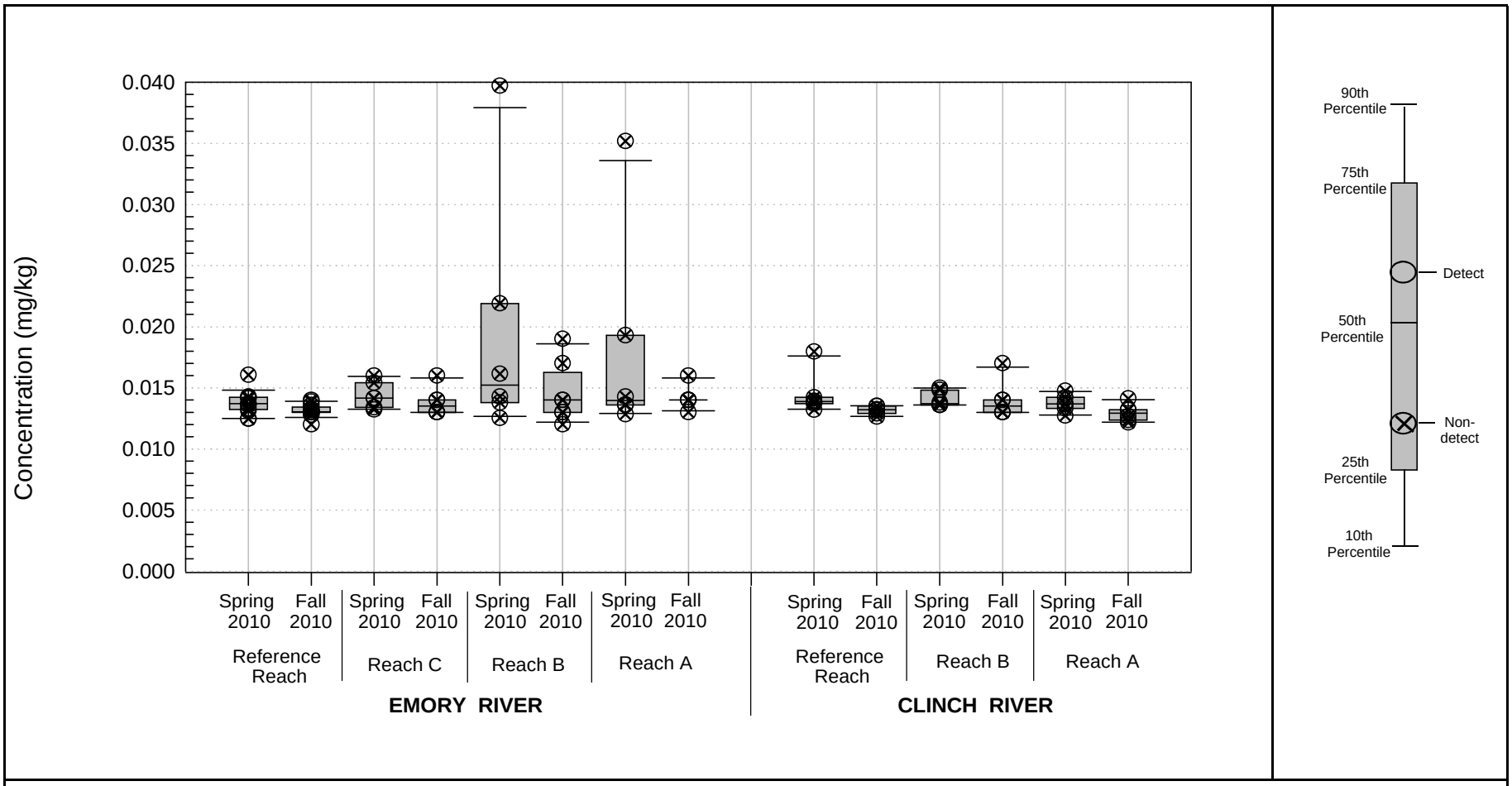
ARCADIS

Fillet
Largemouth Bass - Sodium
TVA Kingston



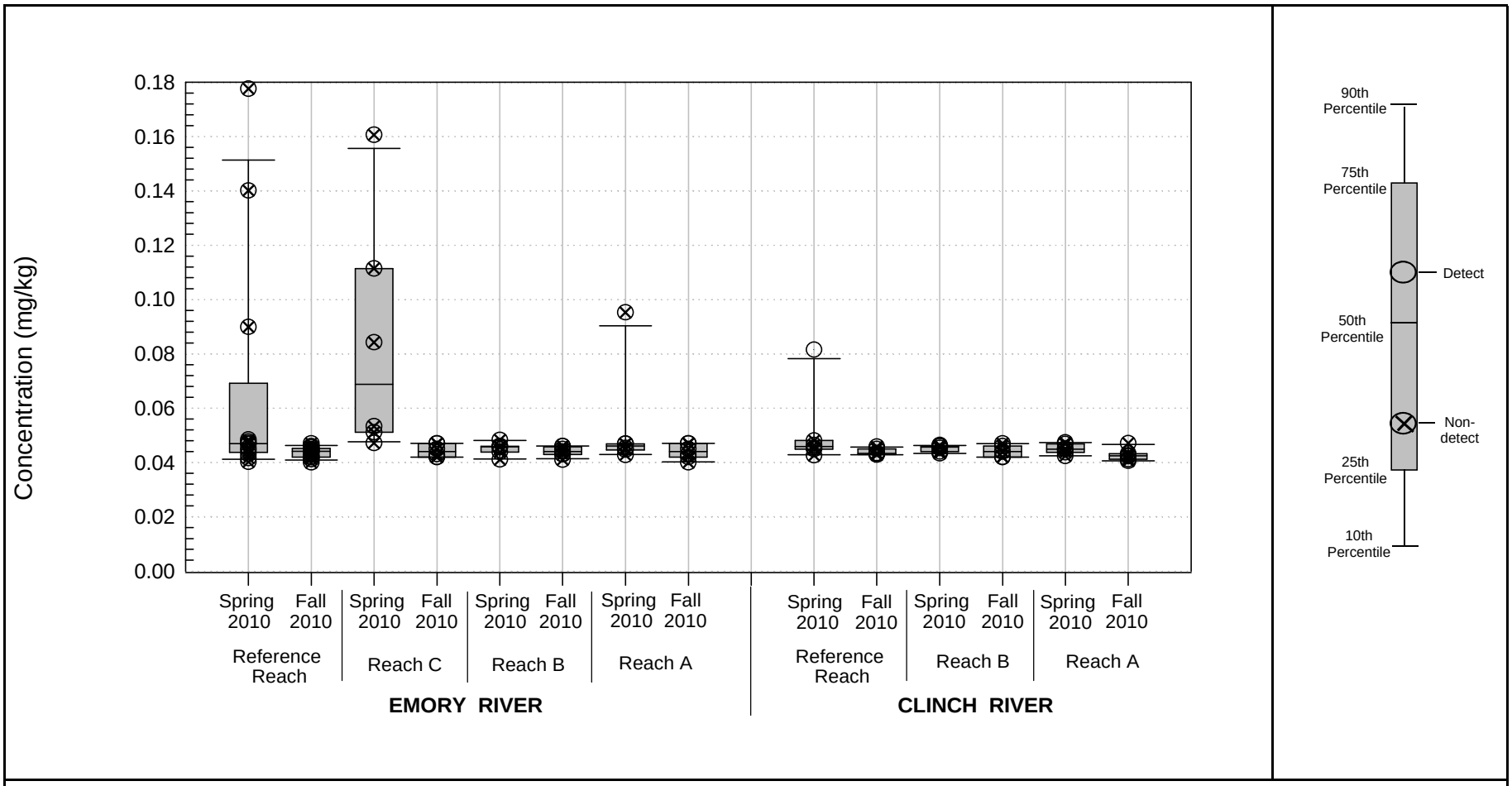
ARCADIS

Fillet
Largemouth Bass - Strontium
TVA Kingston



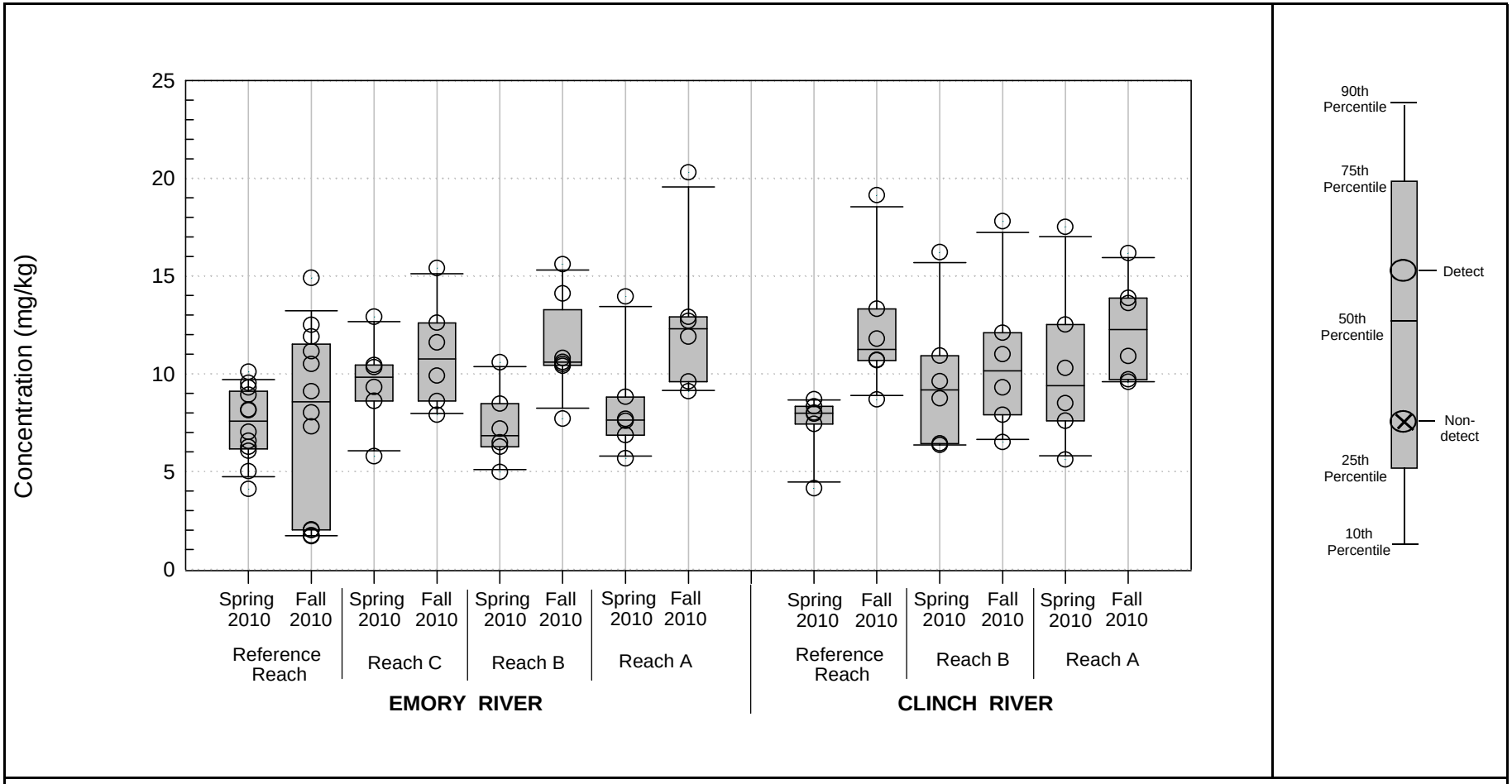
ARCADIS

Fillet
Largemouth Bass - Thallium
TVA Kingston



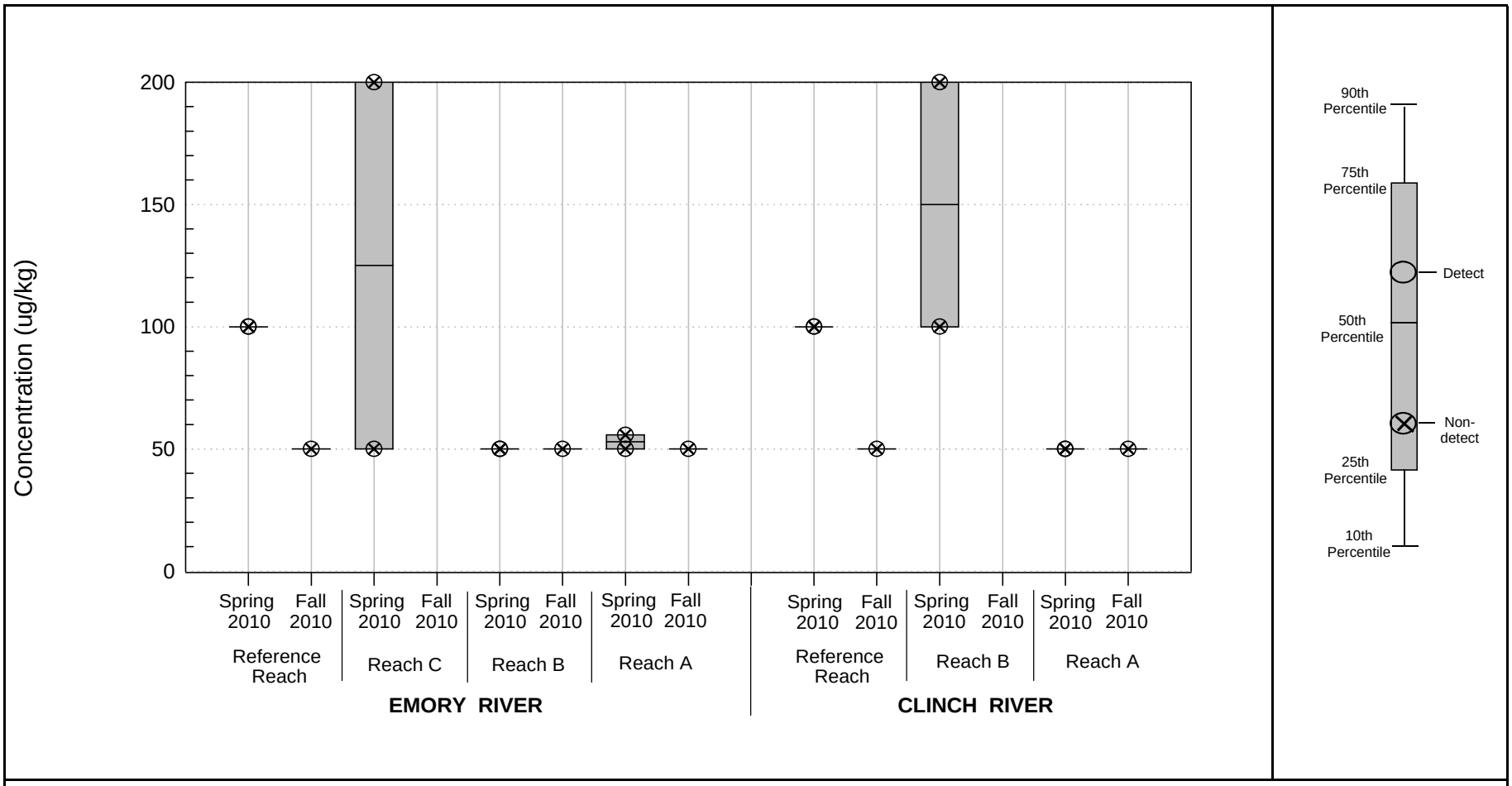
ARCADIS

Fillet
Largemouth Bass - Vanadium
TVA Kingston



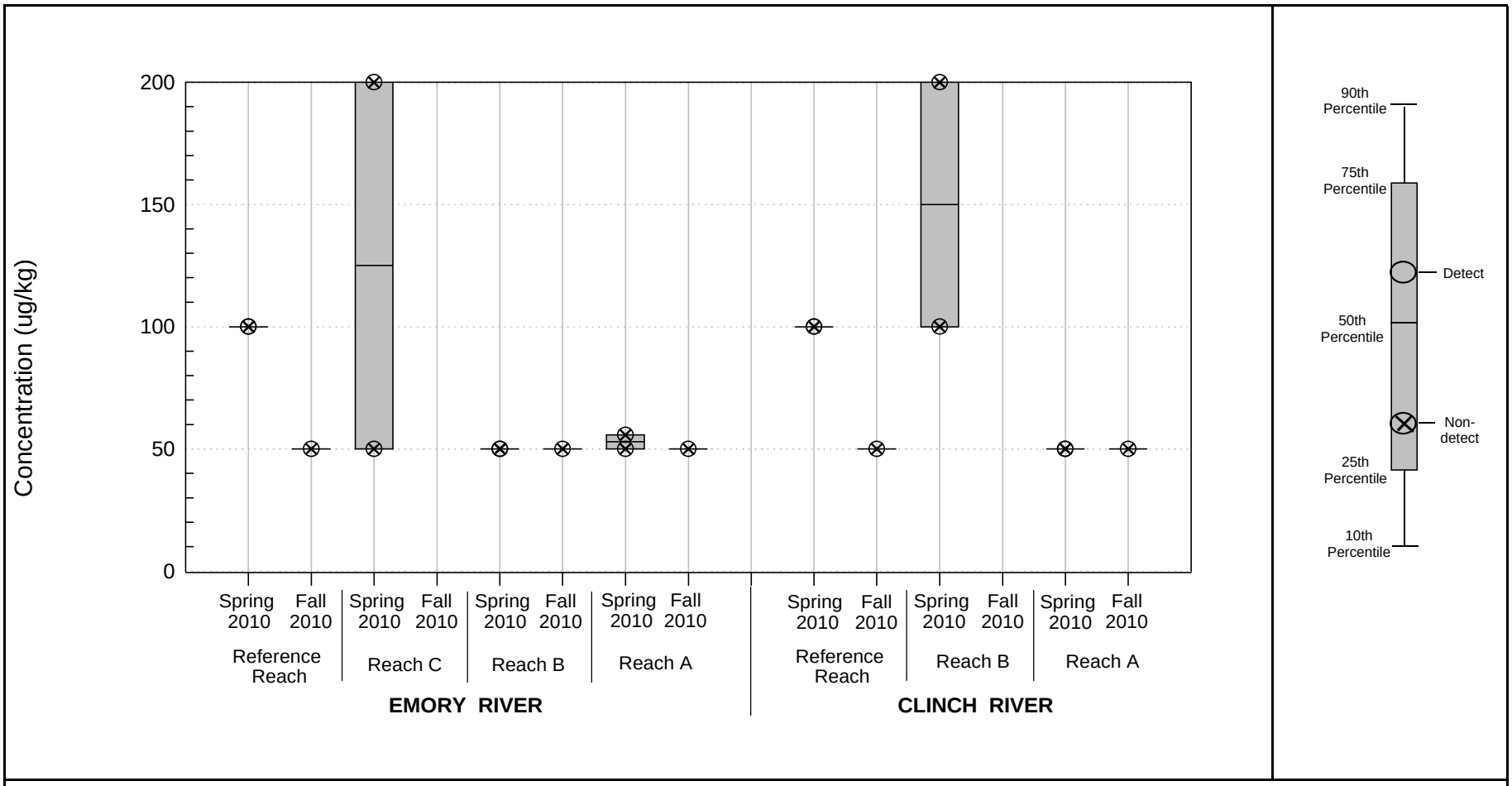
ARCADIS

Fillet
Largemouth Bass - Zinc
TVA Kingston



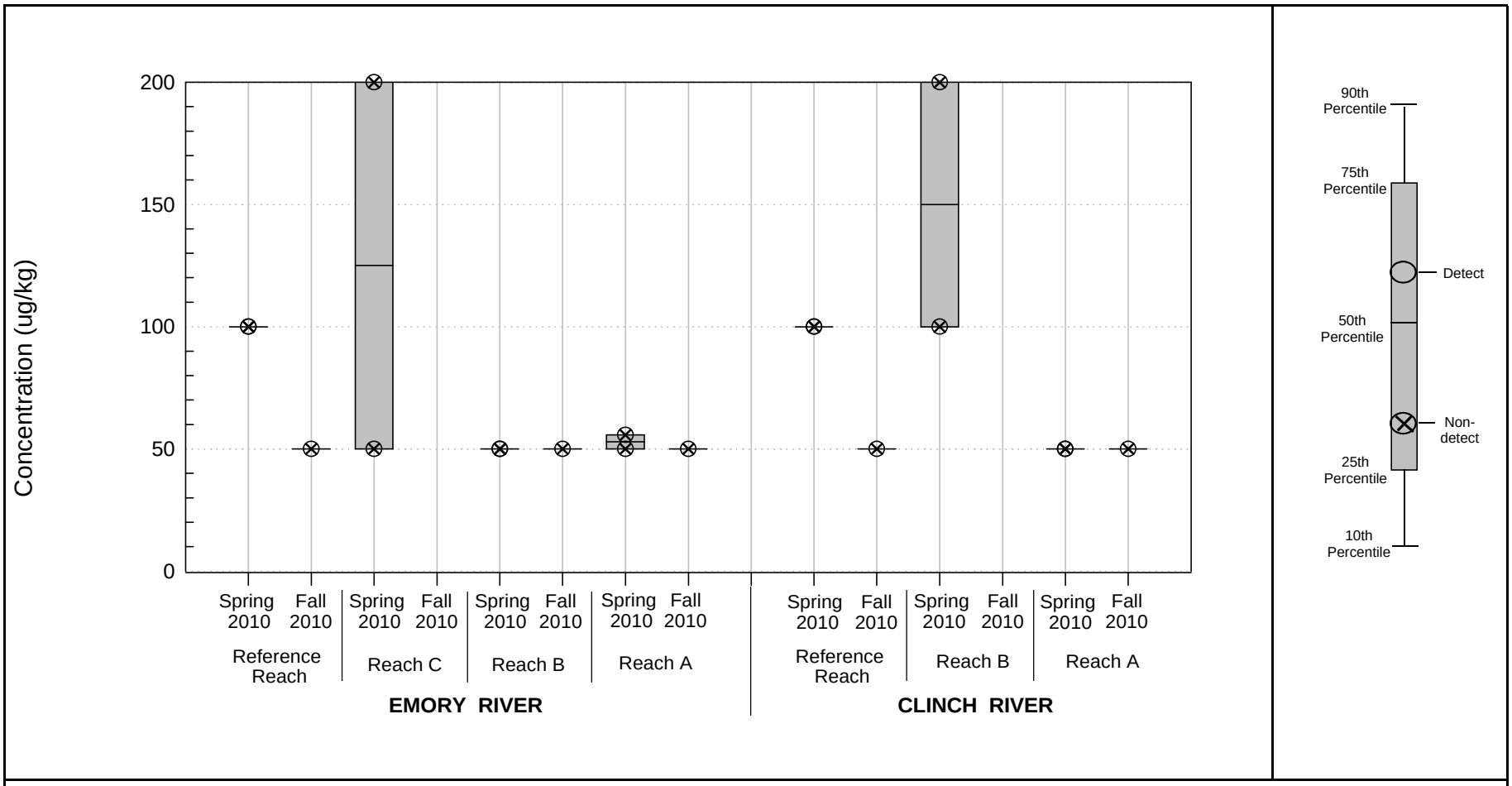
ARCADIS

Fillet
Channel Catfish - PCB-1016
TVA Kingston



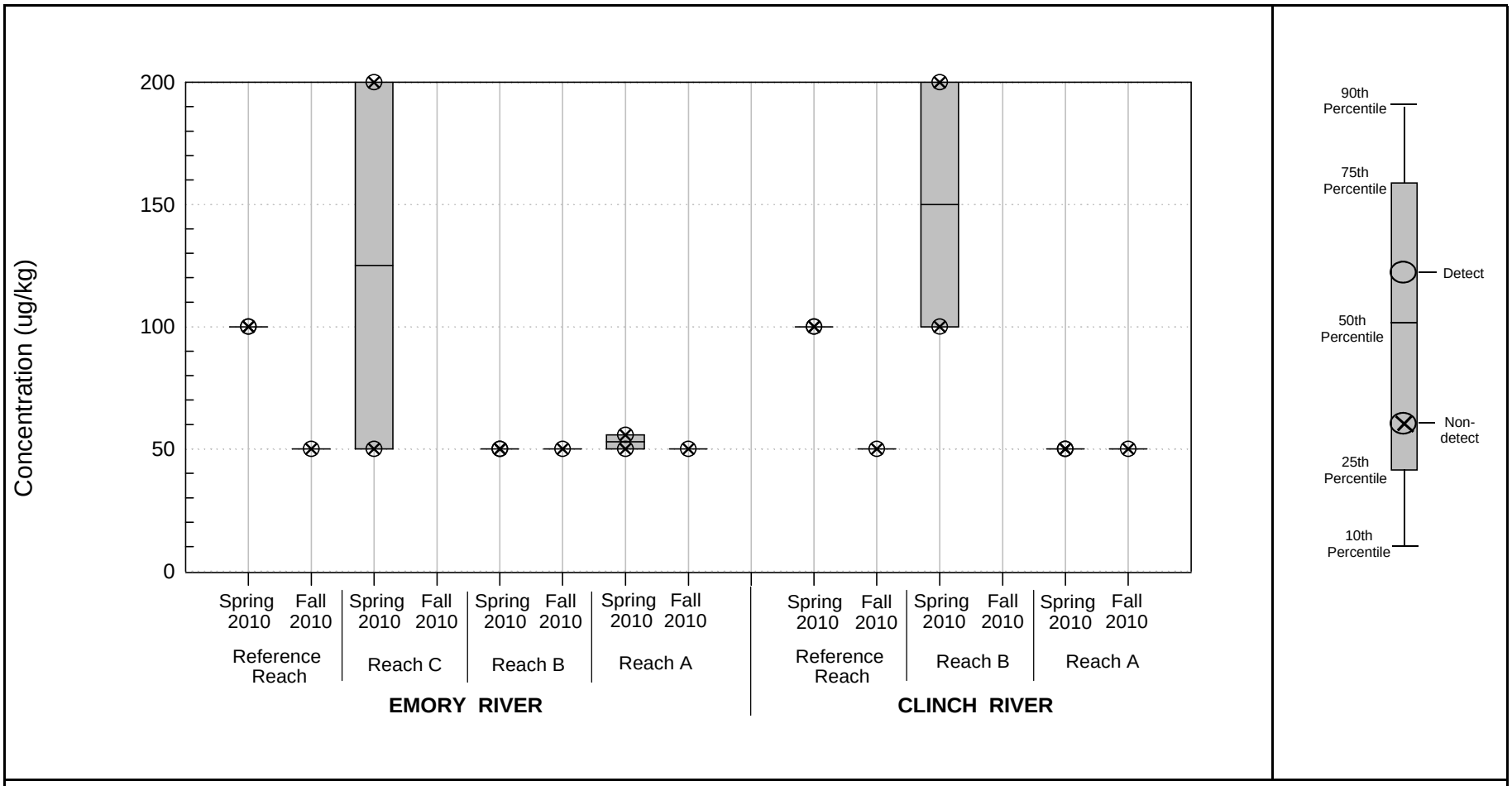
ARCADIS

Fillet
Channel Catfish - PCB-1221
TVA Kingston



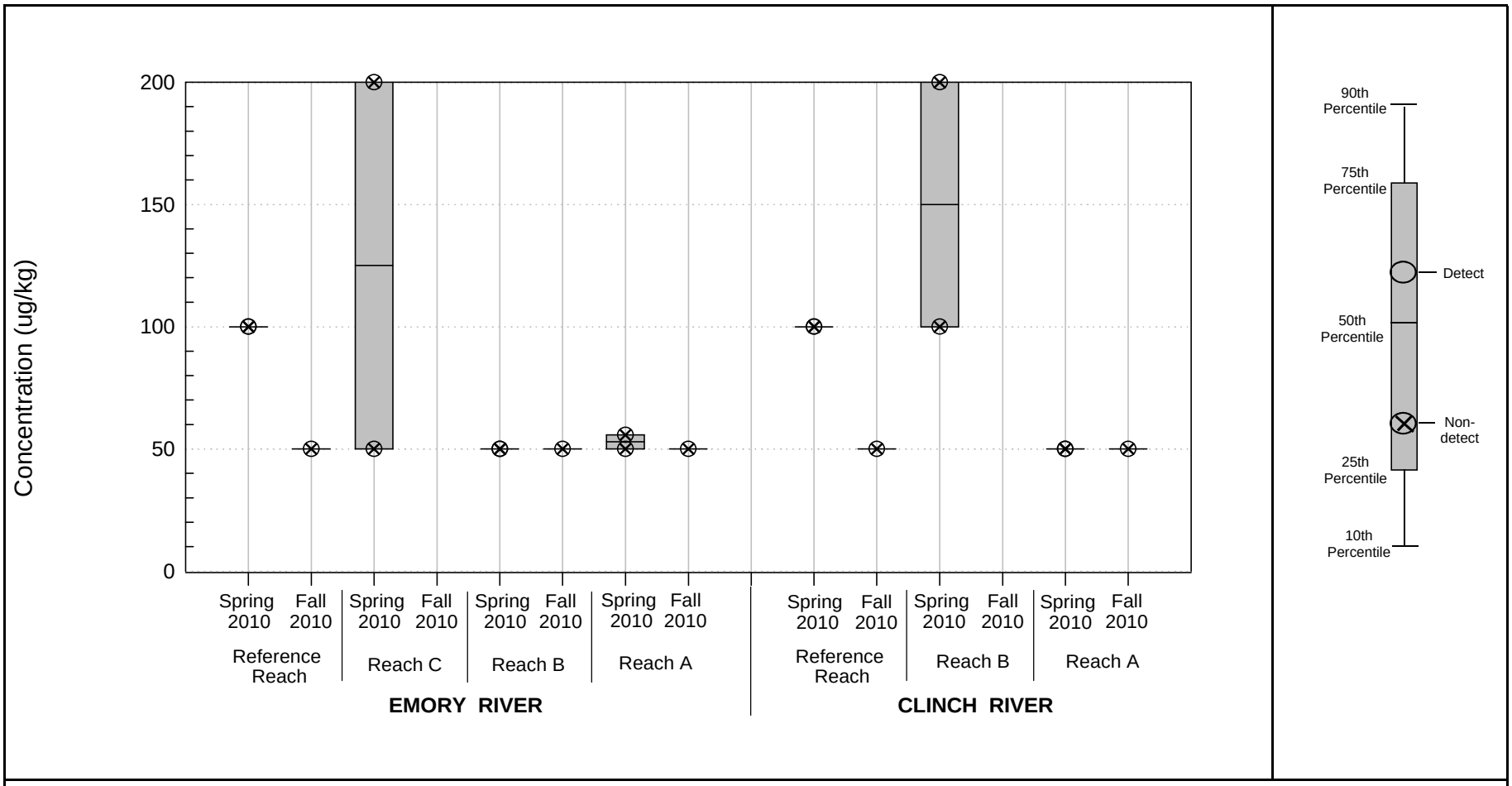
ARCADIS

Fillet
Channel Catfish - PCB-1232
TVA Kingston



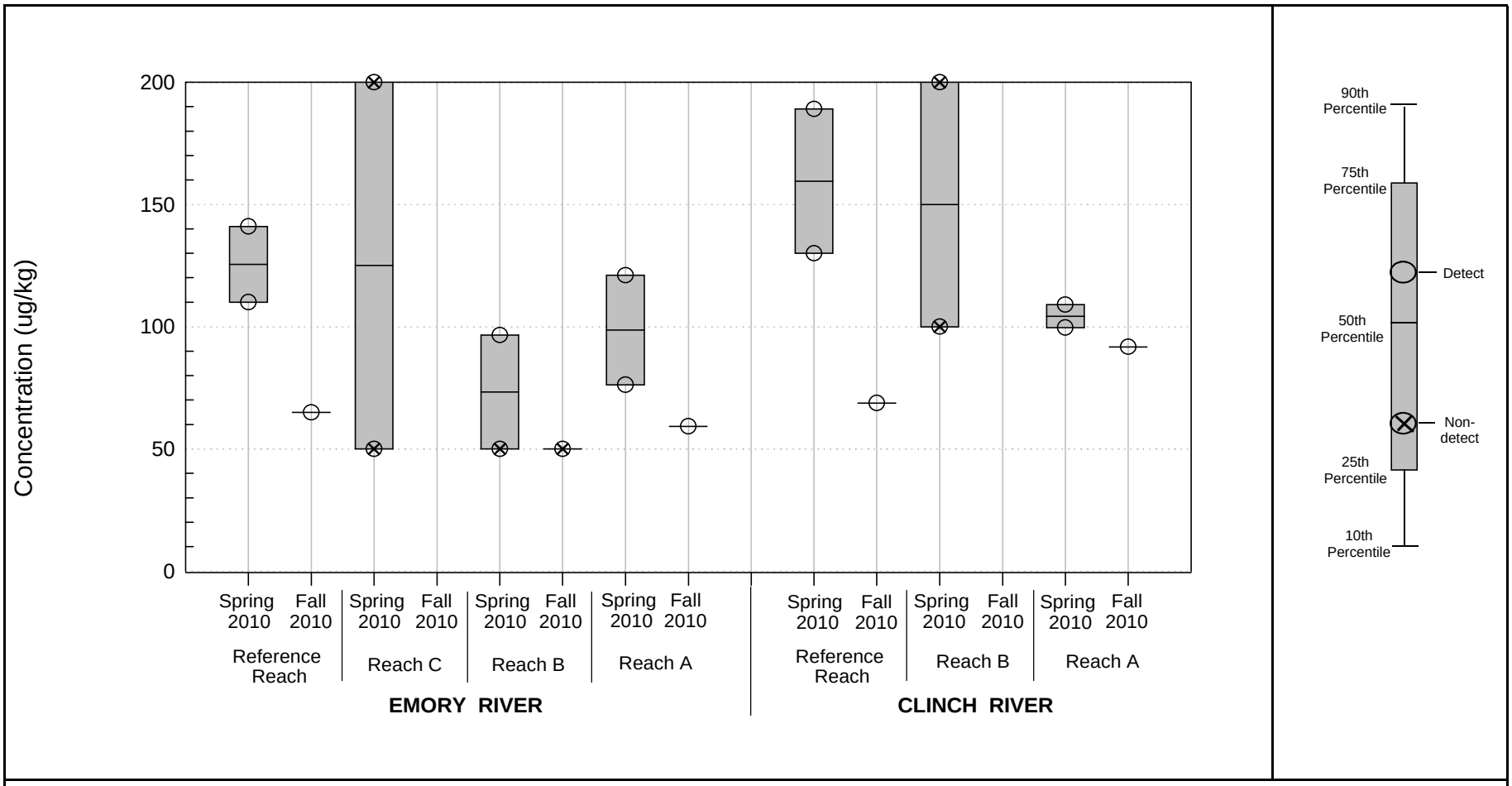
ARCADIS

Fillet
Channel Catfish - PCB-1242
TVA Kingston



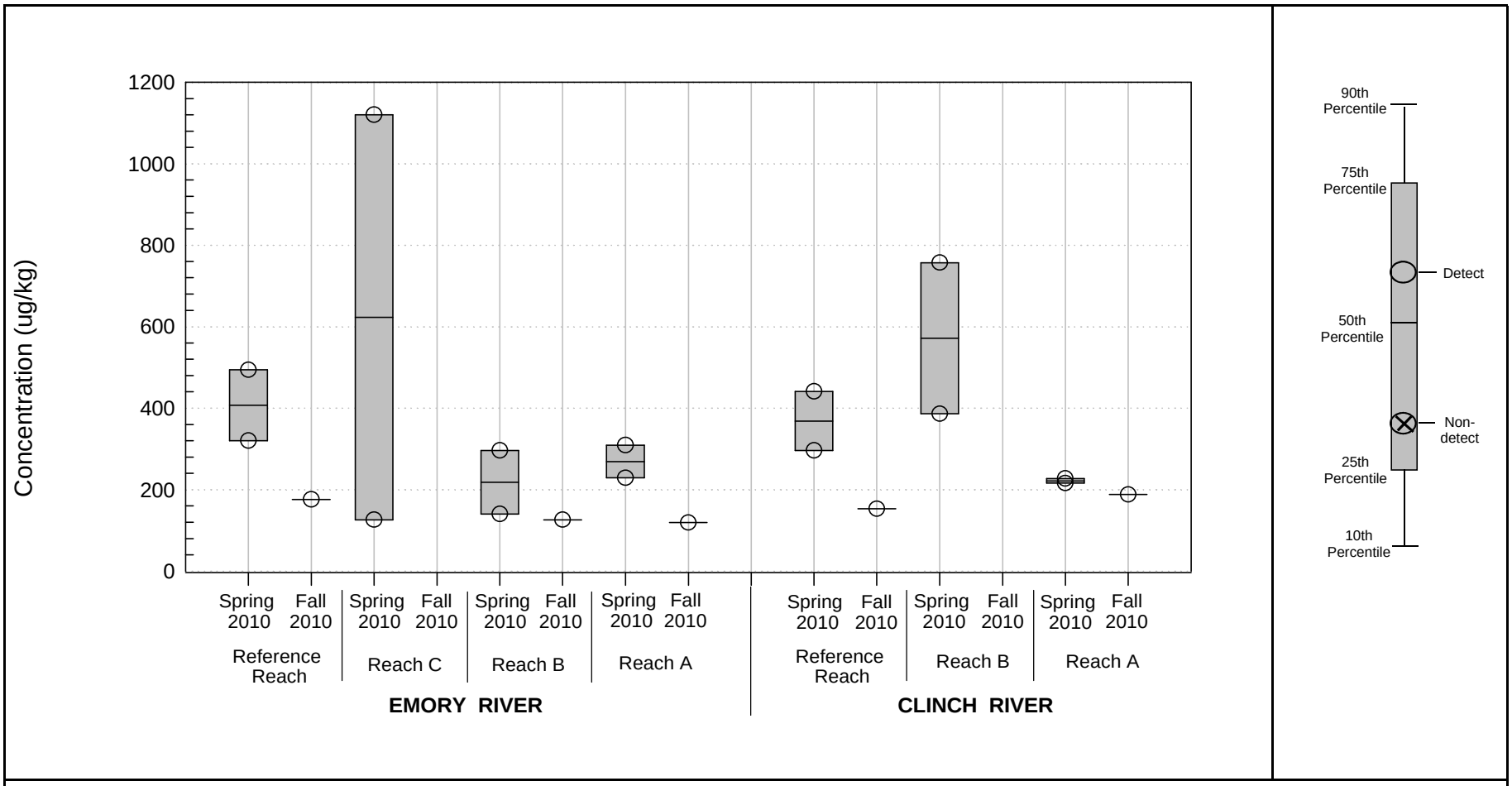
ARCADIS

Fillet
Channel Catfish - PCB-1248
TVA Kingston



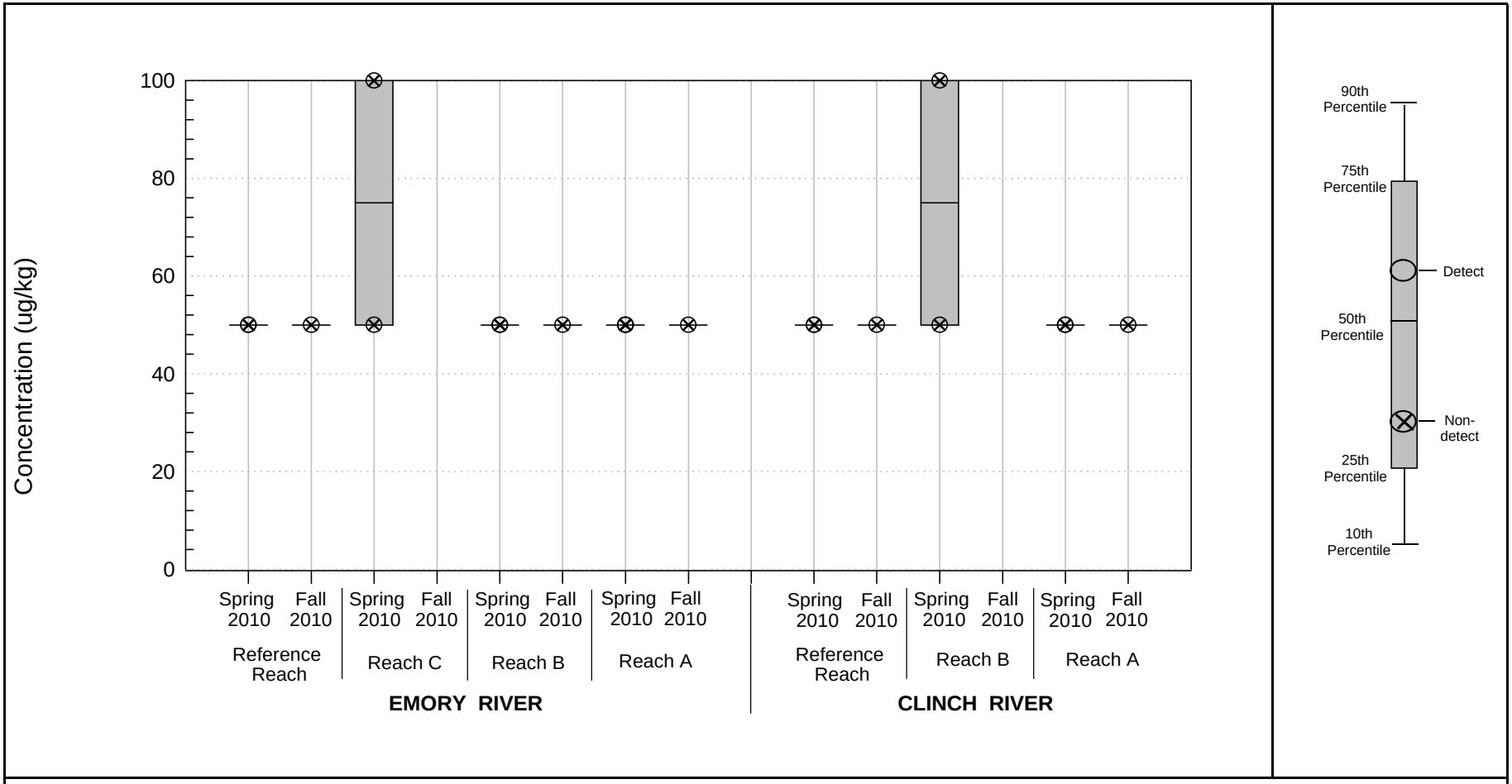
ARCADIS

Fillet
Channel Catfish - PCB-1254
TVA Kingston



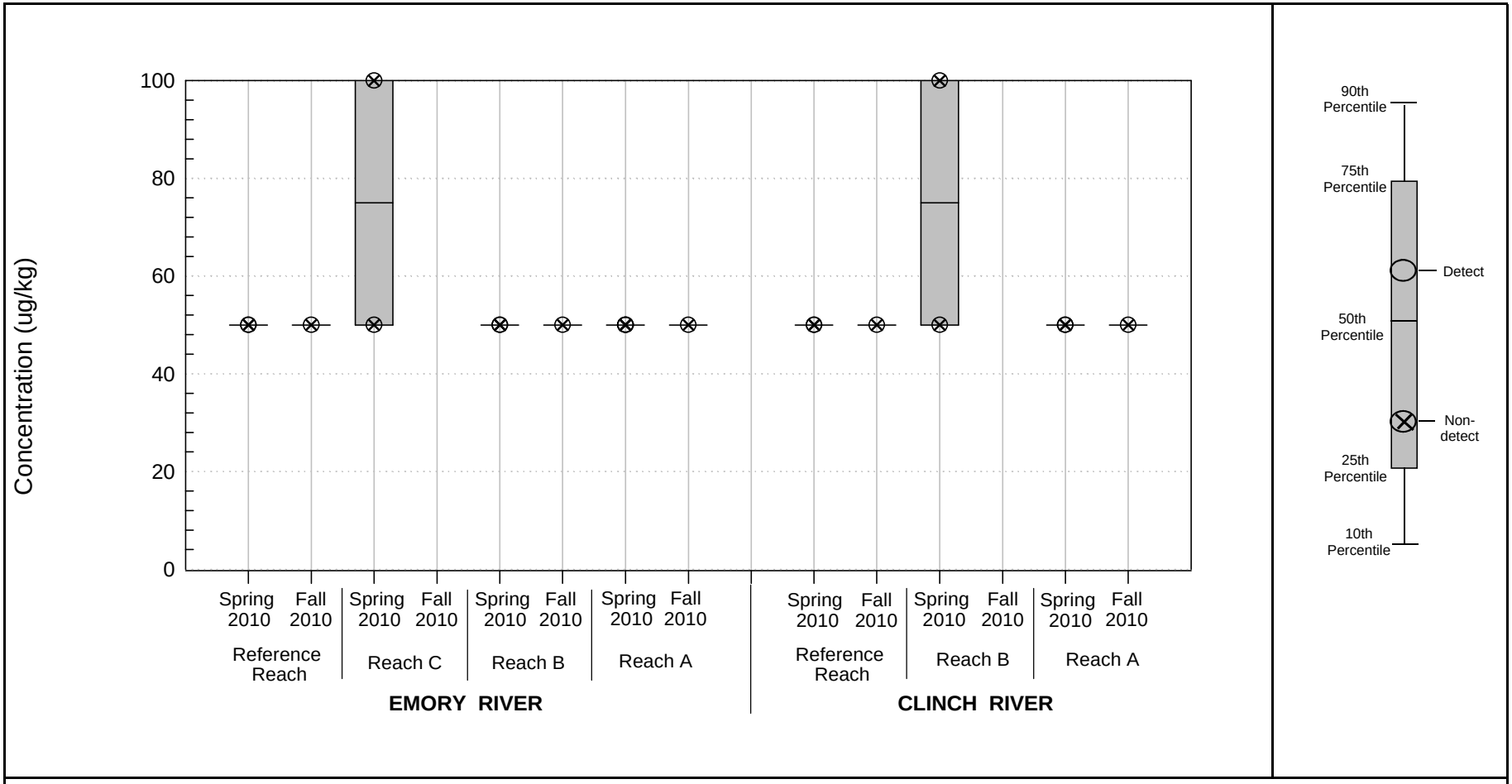
ARCADIS

Fillet
Channel Catfish - PCB-1260
TVA Kingston



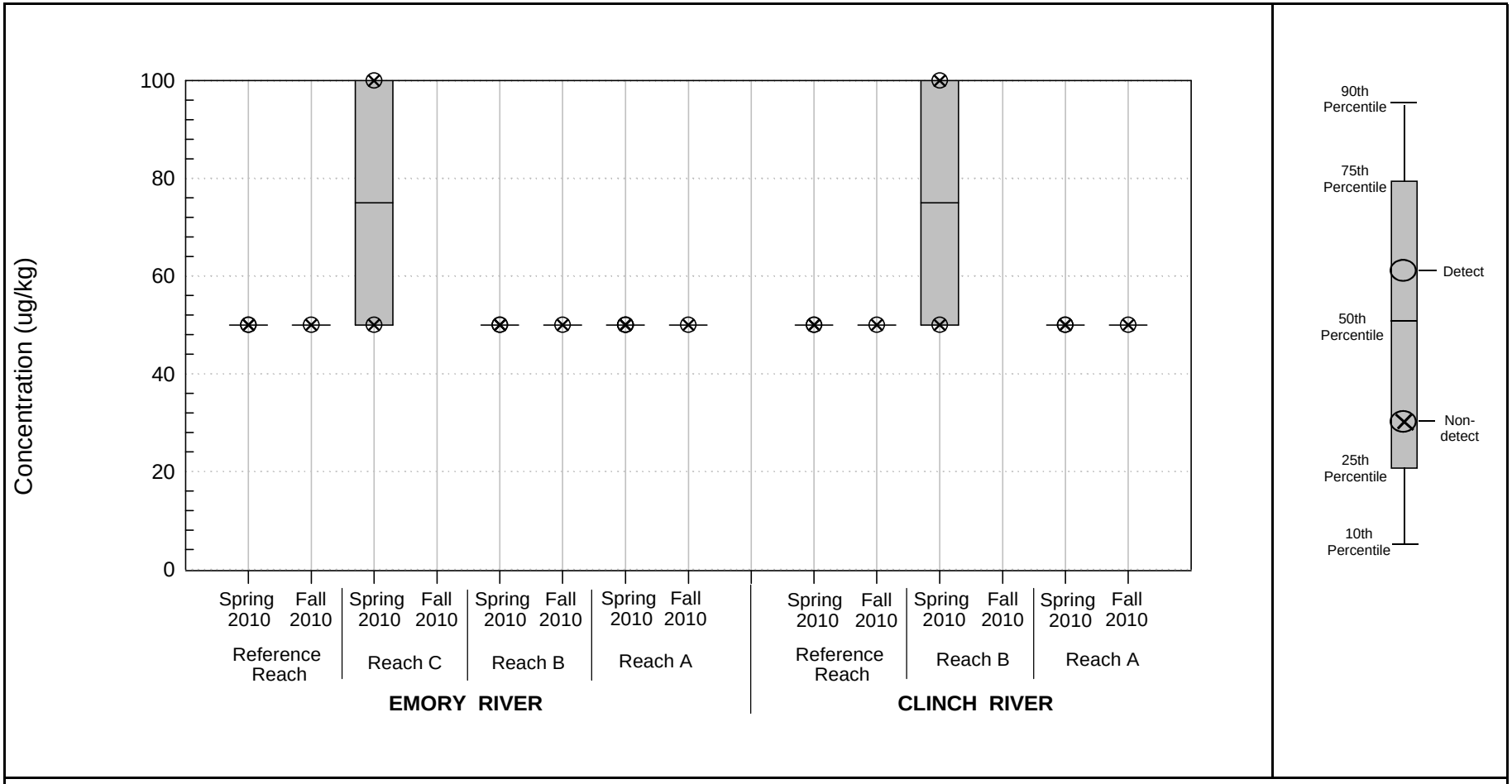
ARCADIS

Fillet
Largemouth Bass - PCB-1016
TVA Kingston



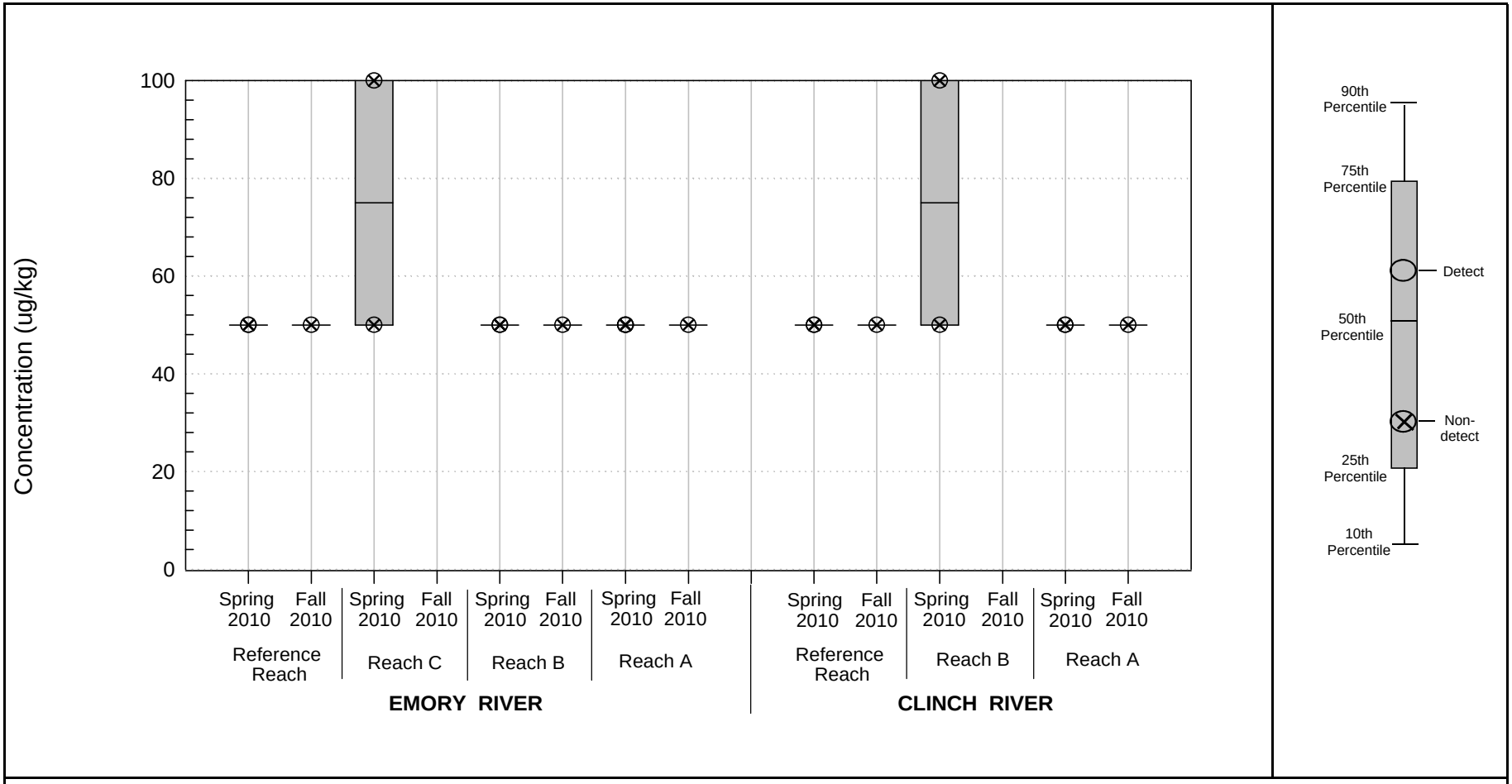
ARCADIS

Fillet
Largemouth Bass - PCB-1221
TVA Kingston



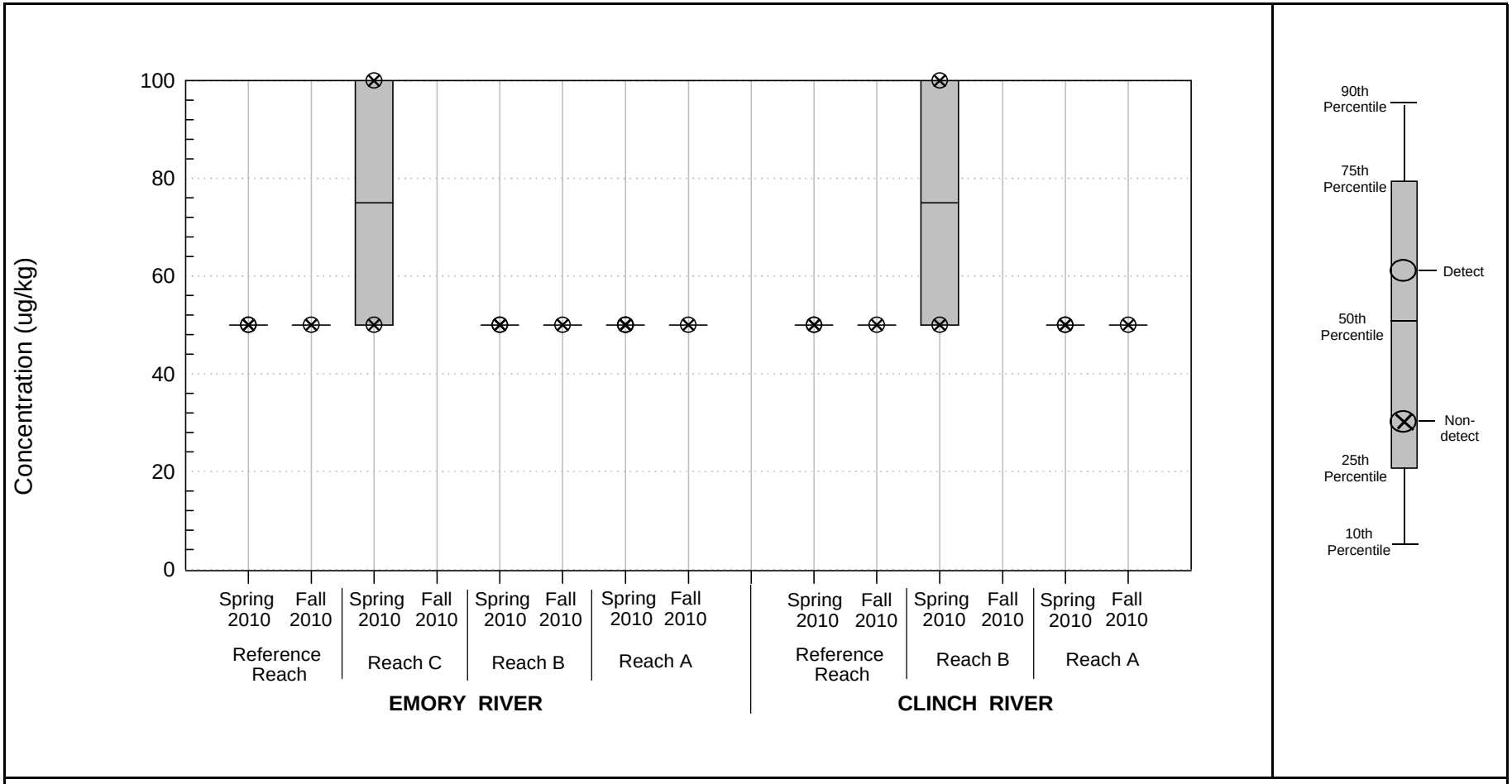
ARCADIS

Fillet
Largemouth Bass - PCB-1232
TVA Kingston



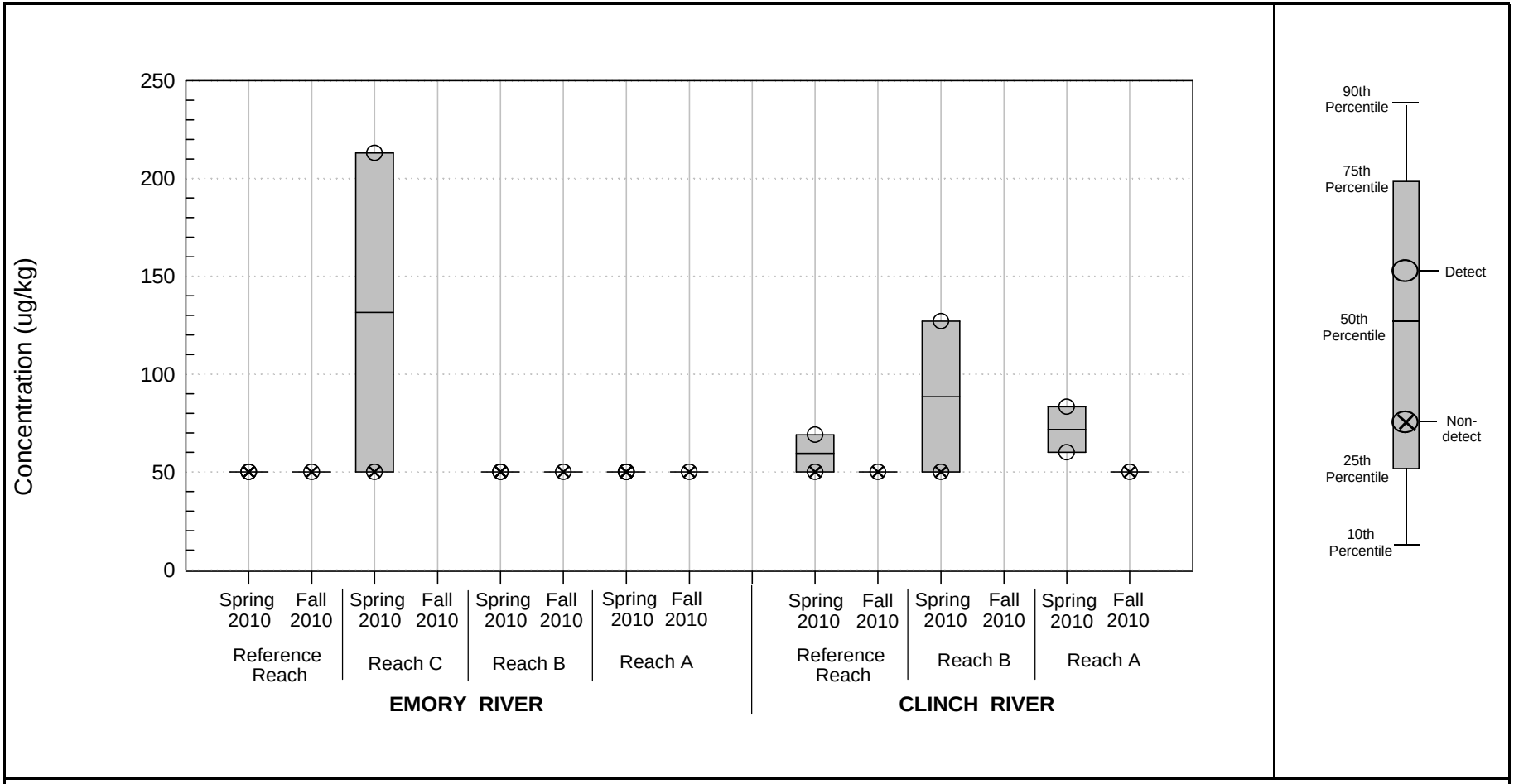
ARCADIS

Fillet
Largemouth Bass - PCB-1242
TVA Kingston



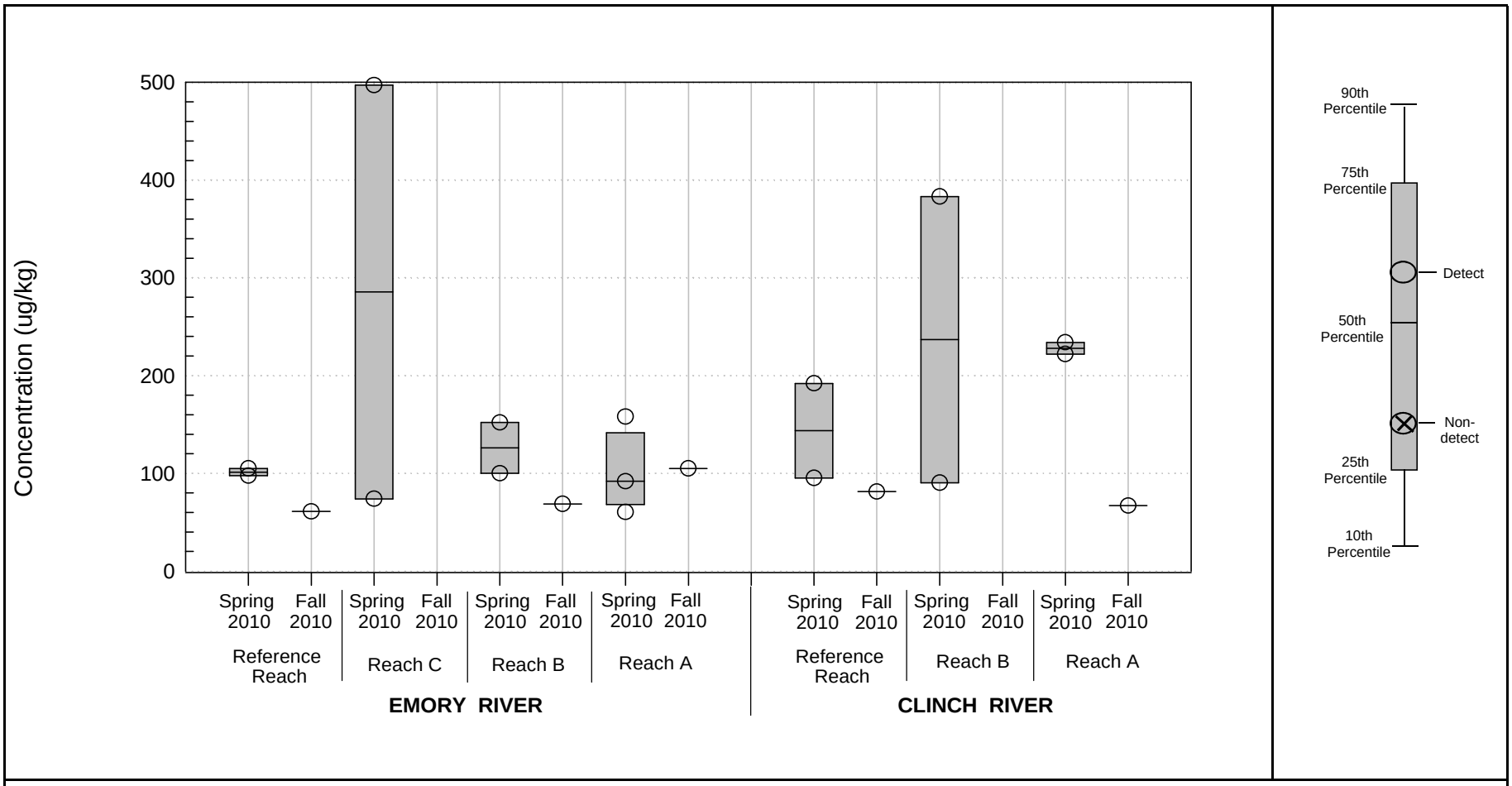
ARCADIS

Fillet
Largemouth Bass - PCB-1248
TVA Kingston



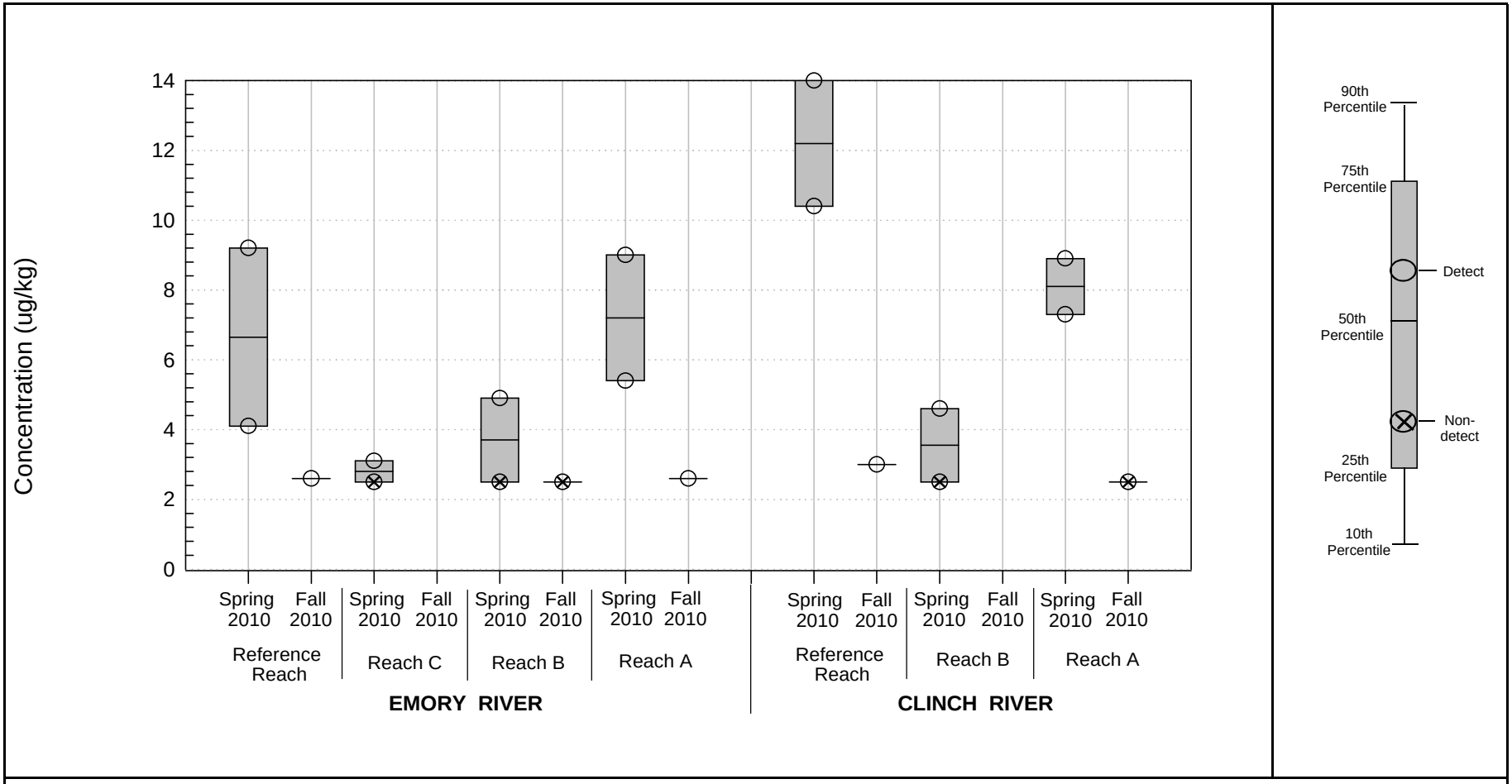
ARCADIS

Fillet
Largemouth Bass - PCB-1254
TVA Kingston



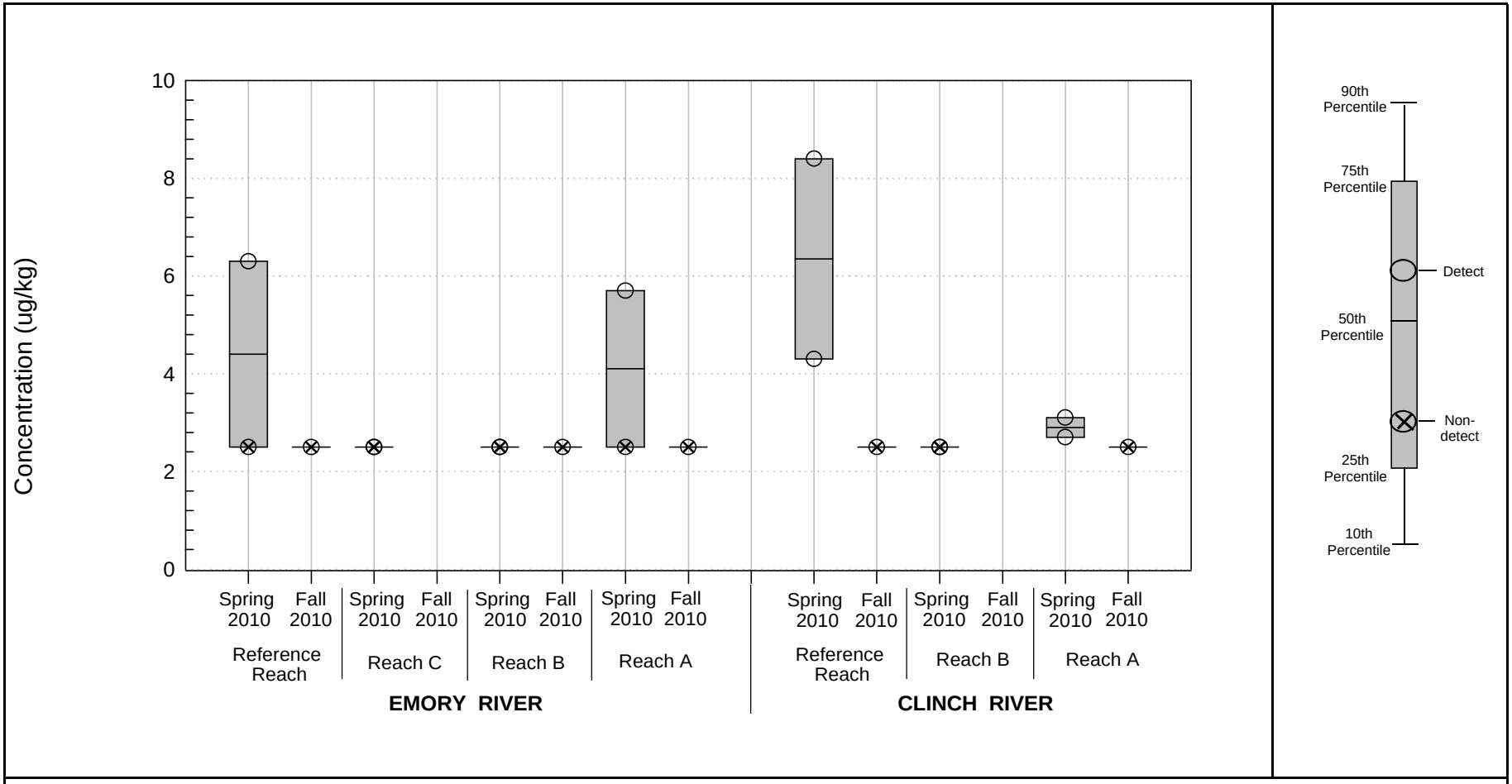
ARCADIS

Fillet
Largemouth Bass - PCB-1260
TVA Kingston



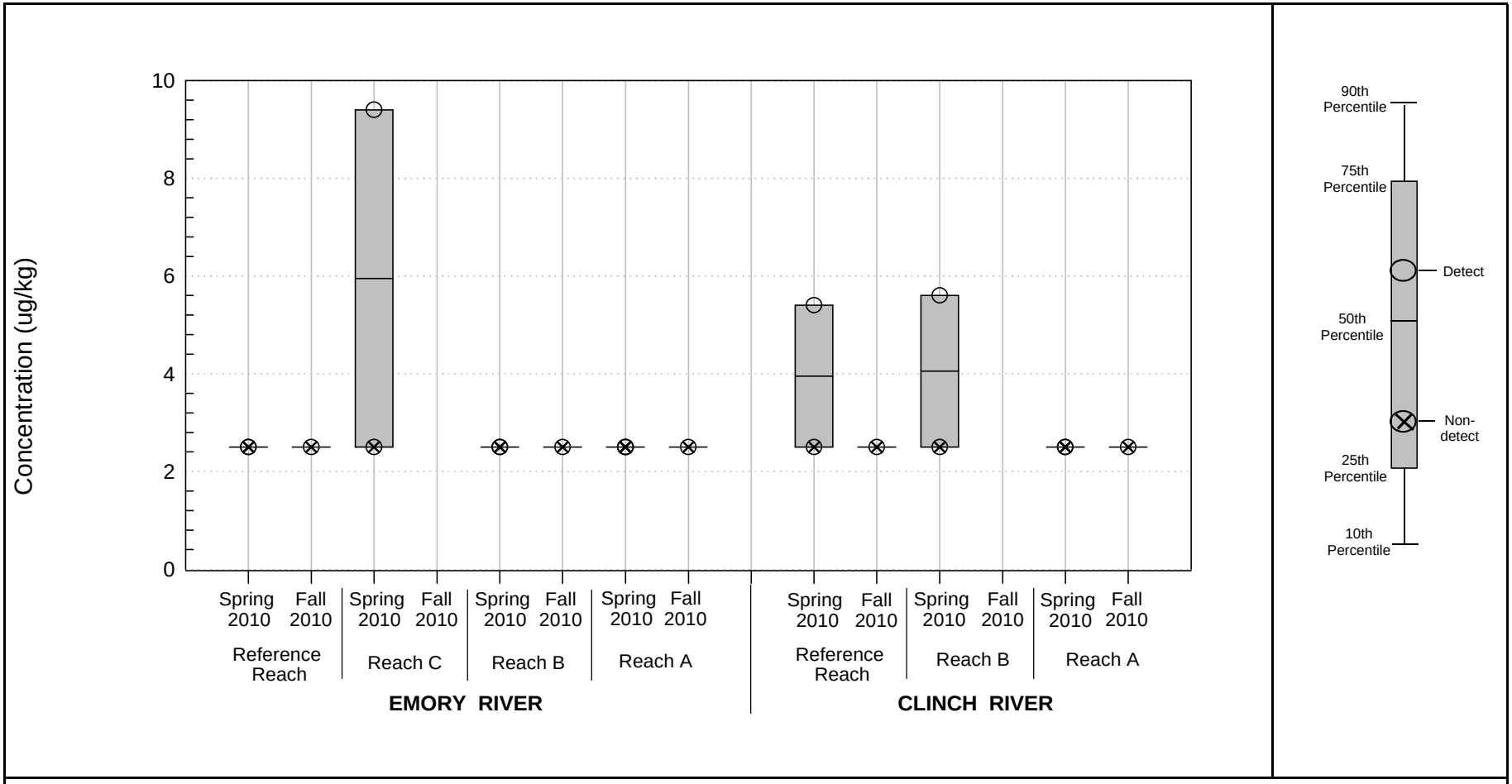
ARCADIS

Fillet
Channel Catfish - alpha-Chlordane
TVA Kingston



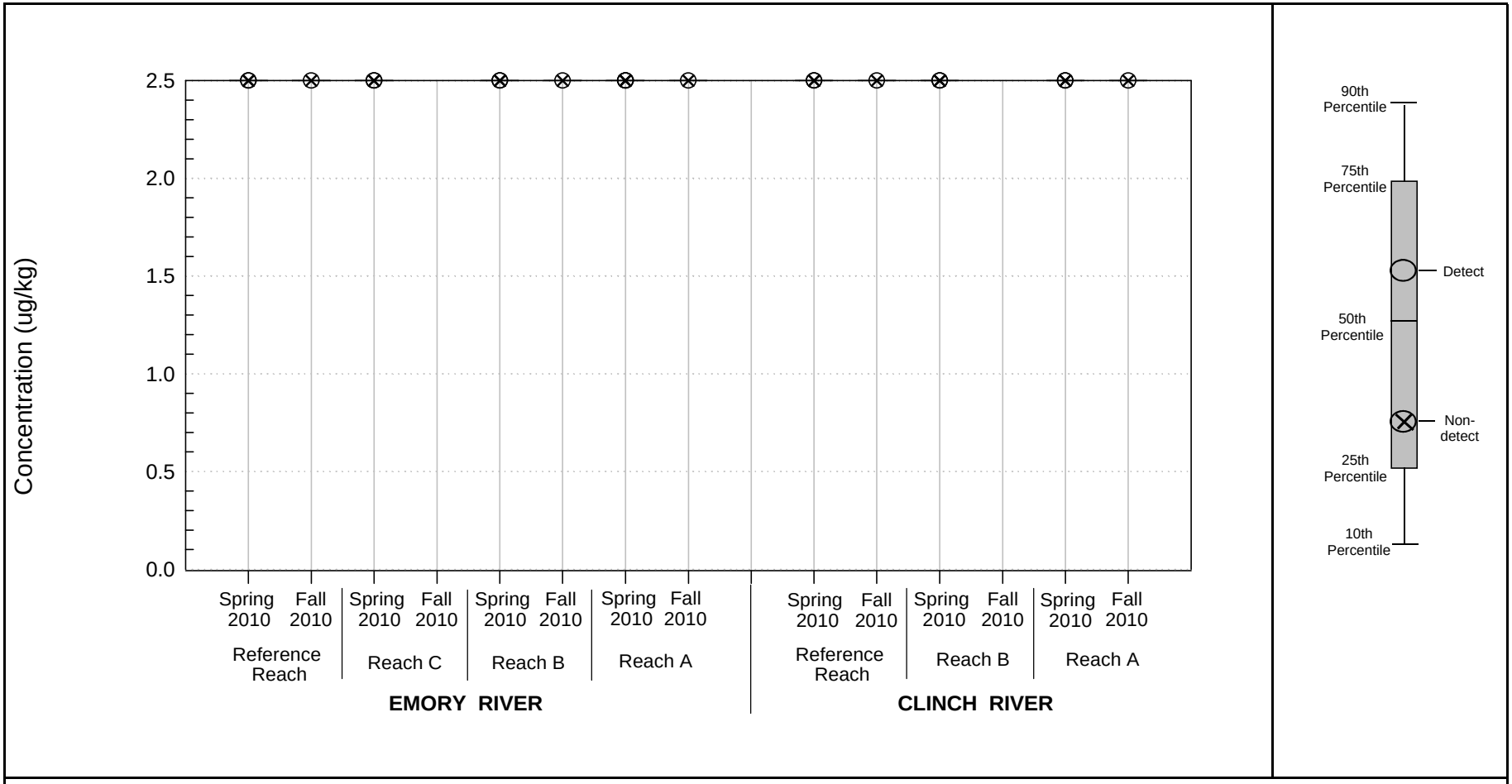
ARCADIS

Fillet
Channel Catfish - gamma-Chlordane
TVA Kingston



ARCADIS

Fillet
Largemouth Bass - alpha-Chlordane
TVA Kingston

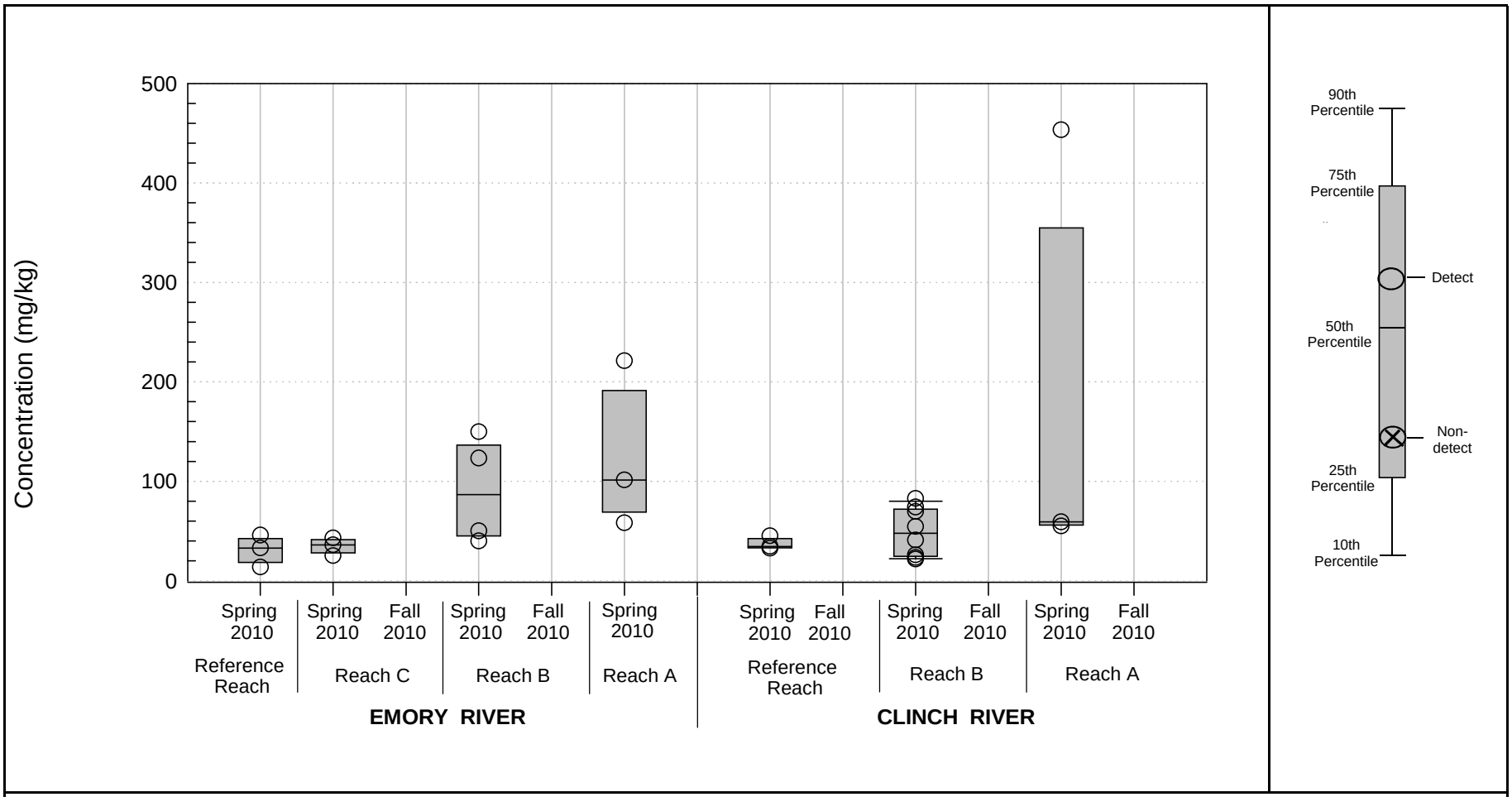


ARCADIS

Fillet
Largemouth Bass - gamma-Chlordane
TVA Kingston

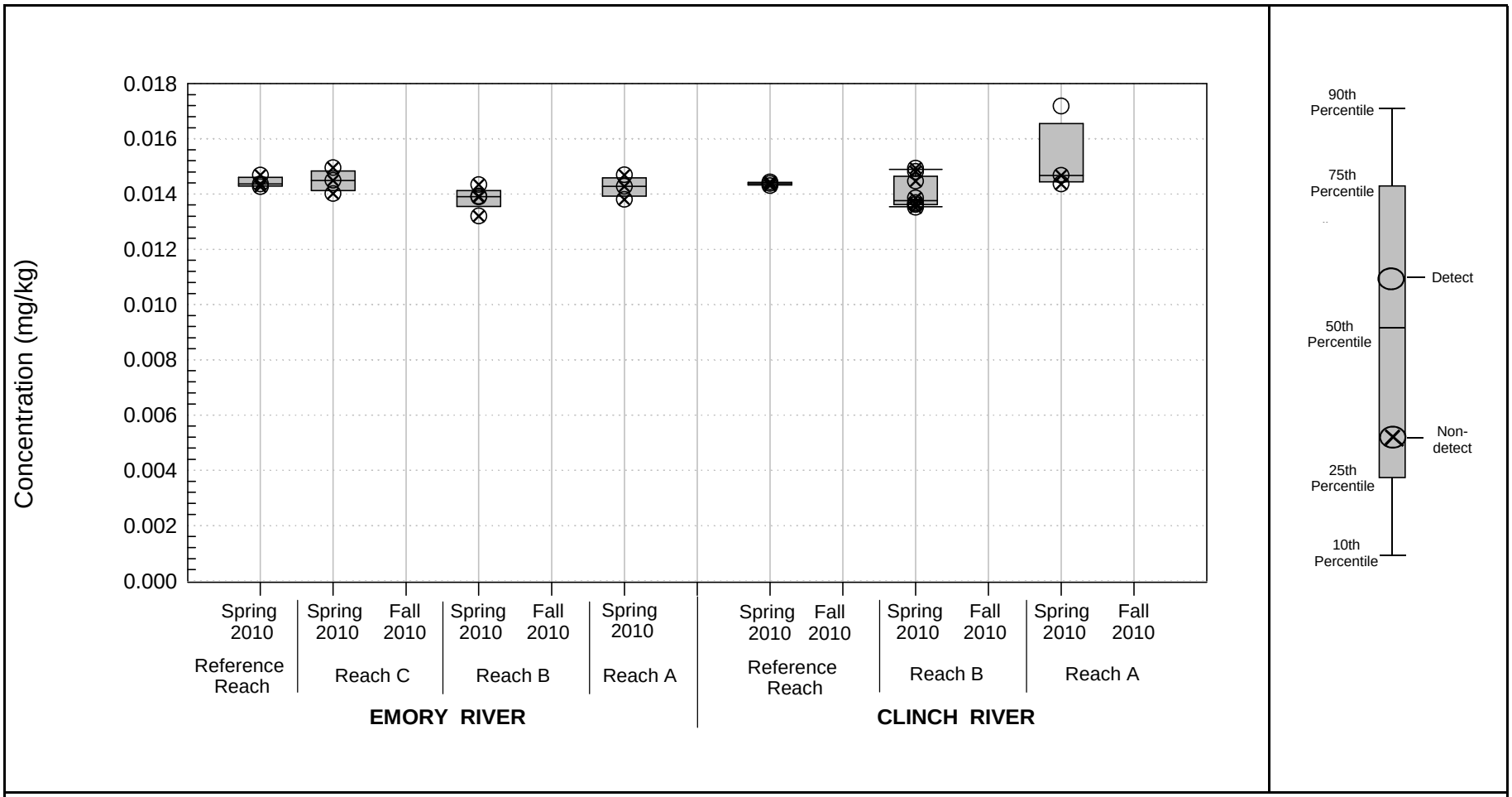
Appendix F

Box Plots Presenting Whole Body Tissue Concentrations of Analytes in Bluegill and Gizzard Shad



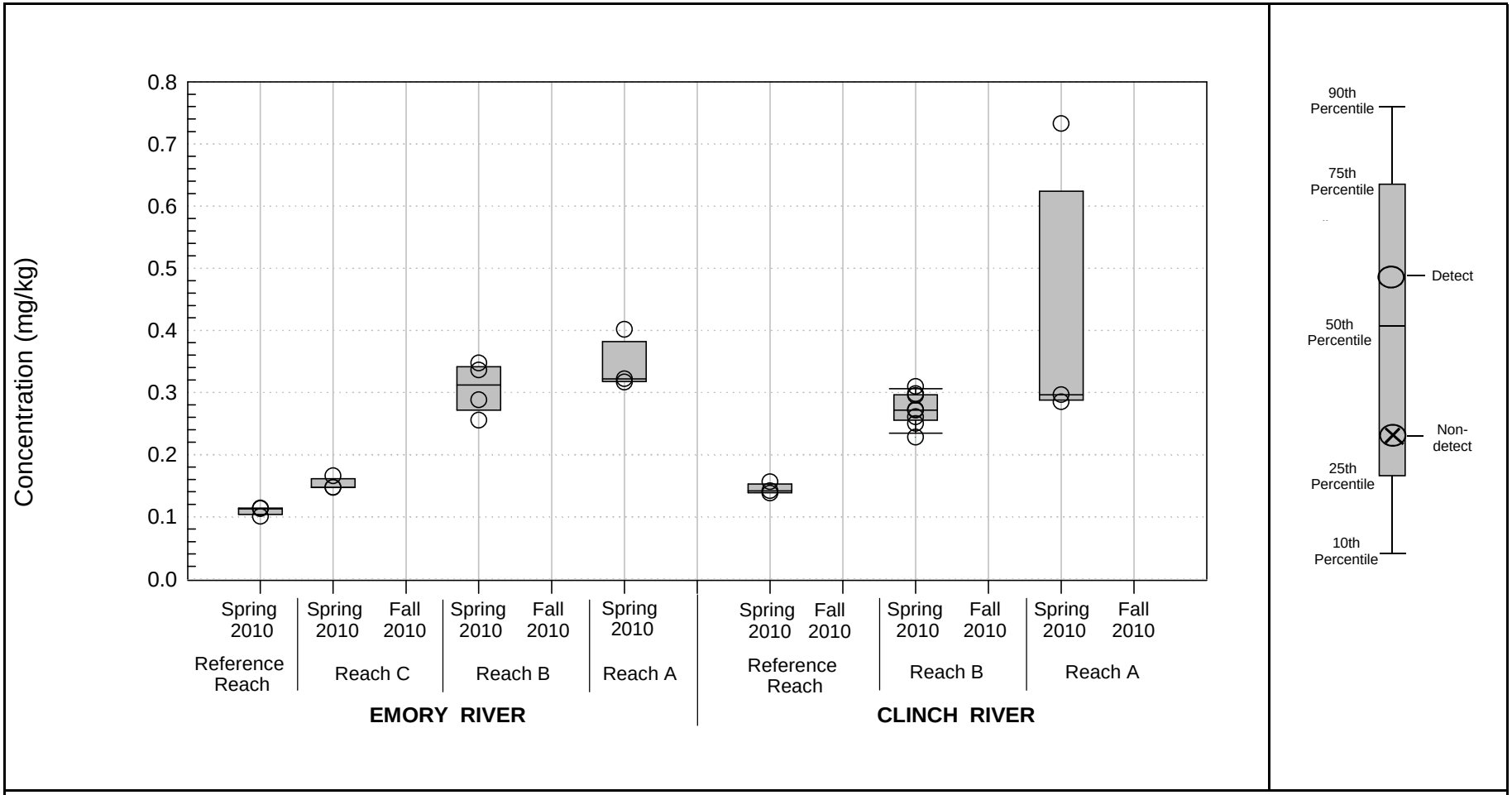
ARCADIS

Whole Body
Bluegill - Aluminum
TVA Kingston



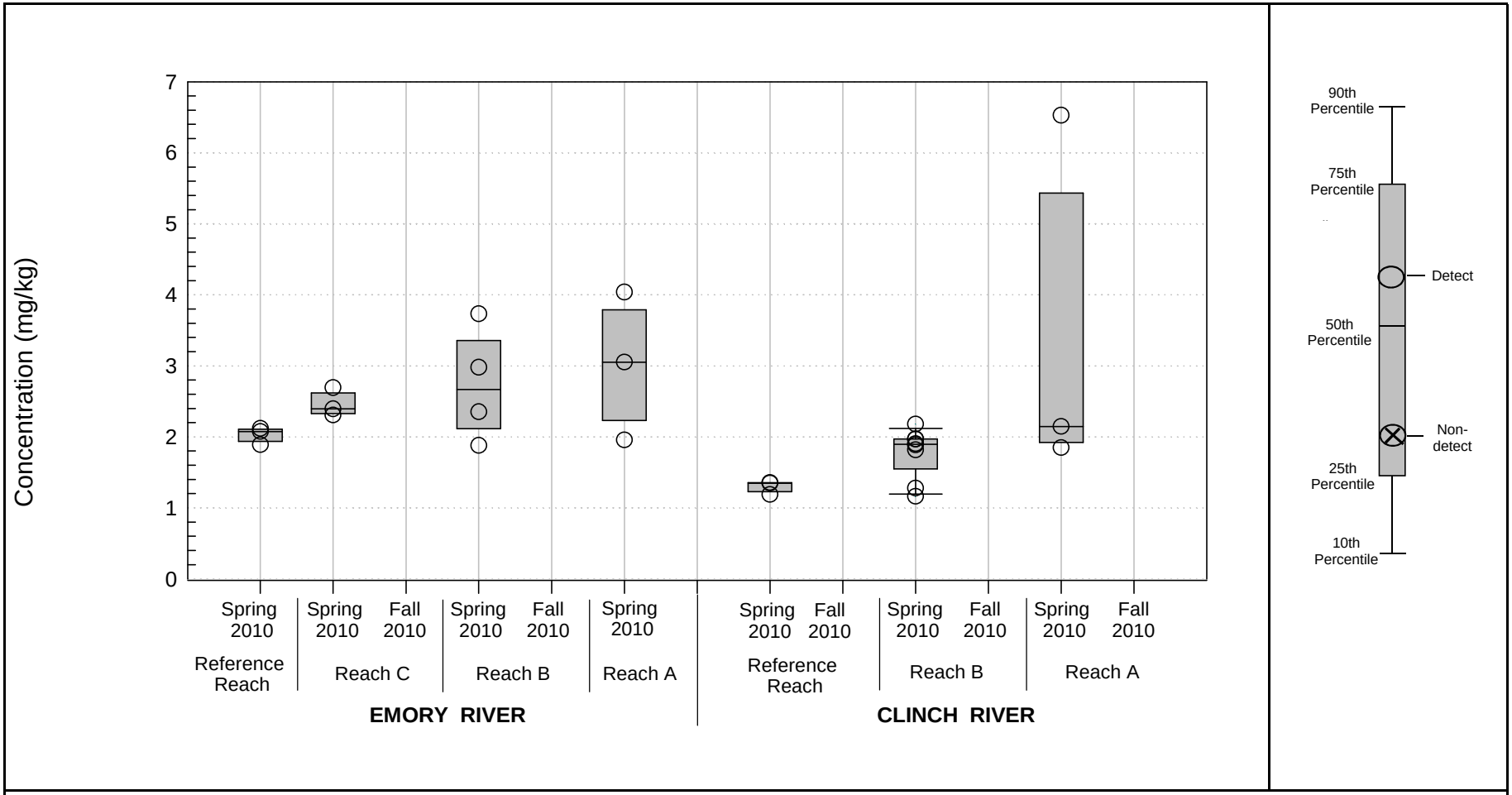
ARCADIS

Whole Body
Bluegill - Antimony
TVA Kingston



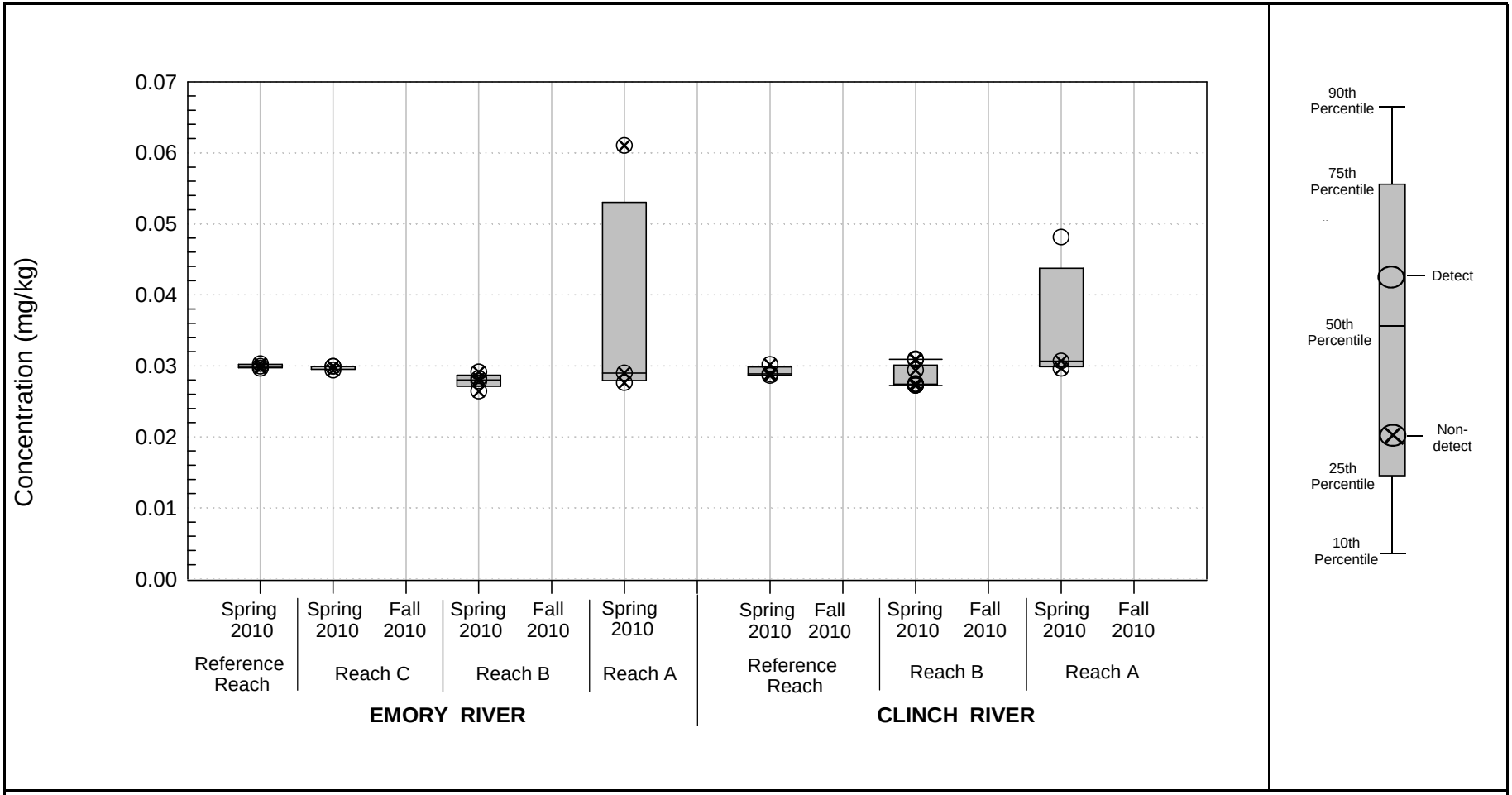
ARCADIS

Whole Body
Bluegill - Arsenic
TVA Kingston



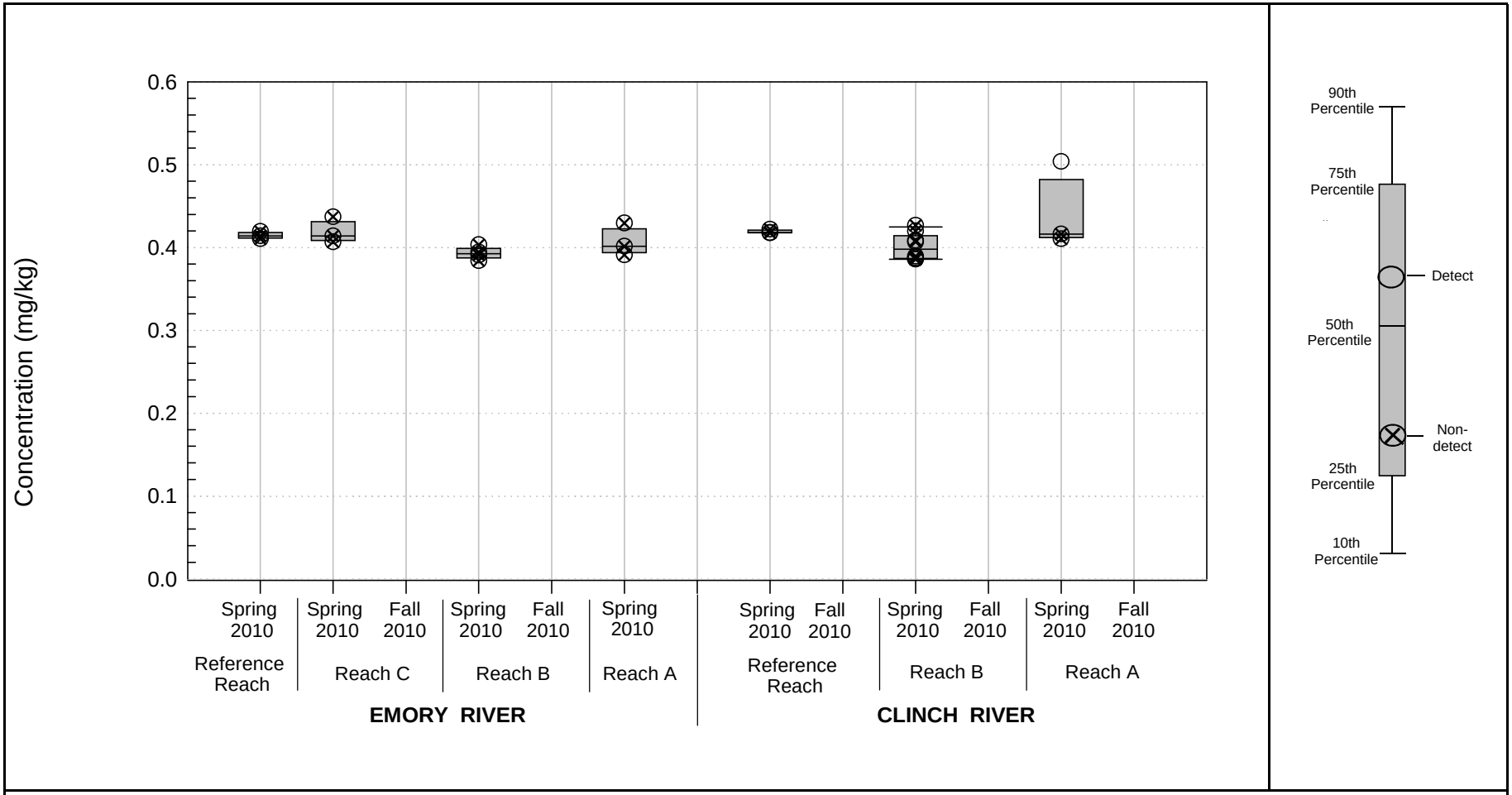
ARCADIS

Whole Body
Bluegill - Barium
TVA Kingston



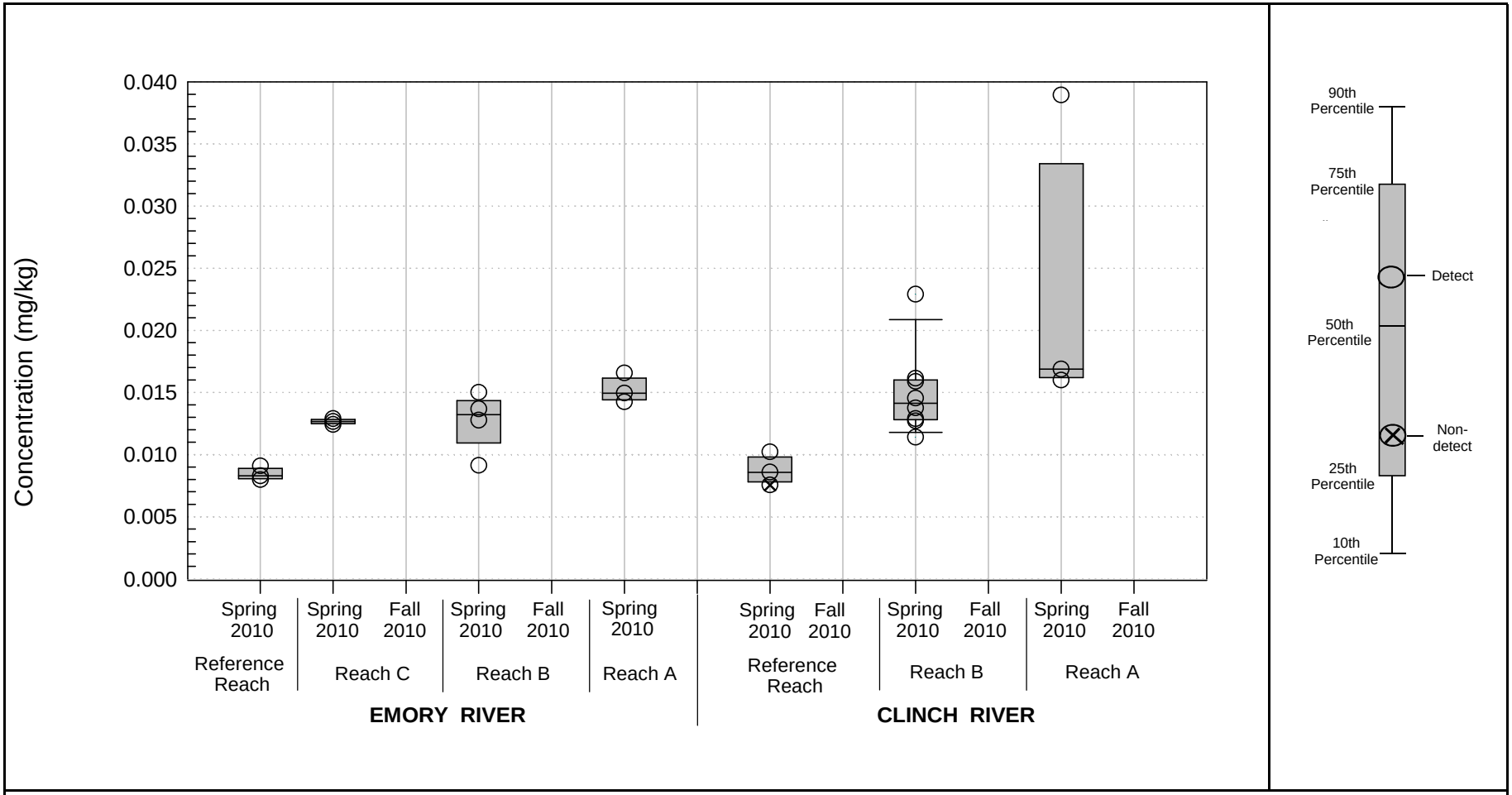
ARCADIS

Whole Body
Bluegill - Beryllium
TVA Kingston



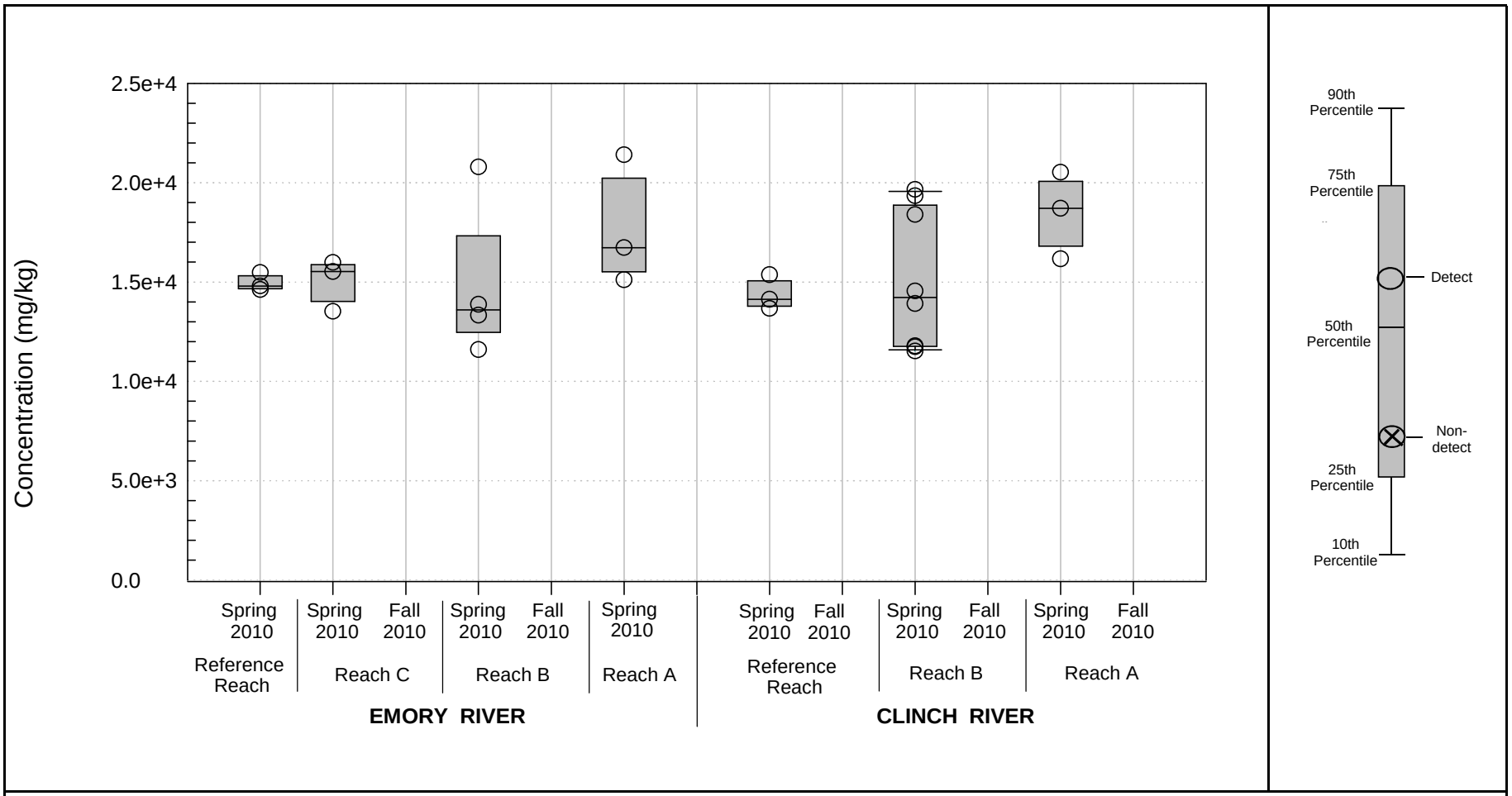
ARCADIS

Whole Body
Bluegill - Boron
TVA Kingston



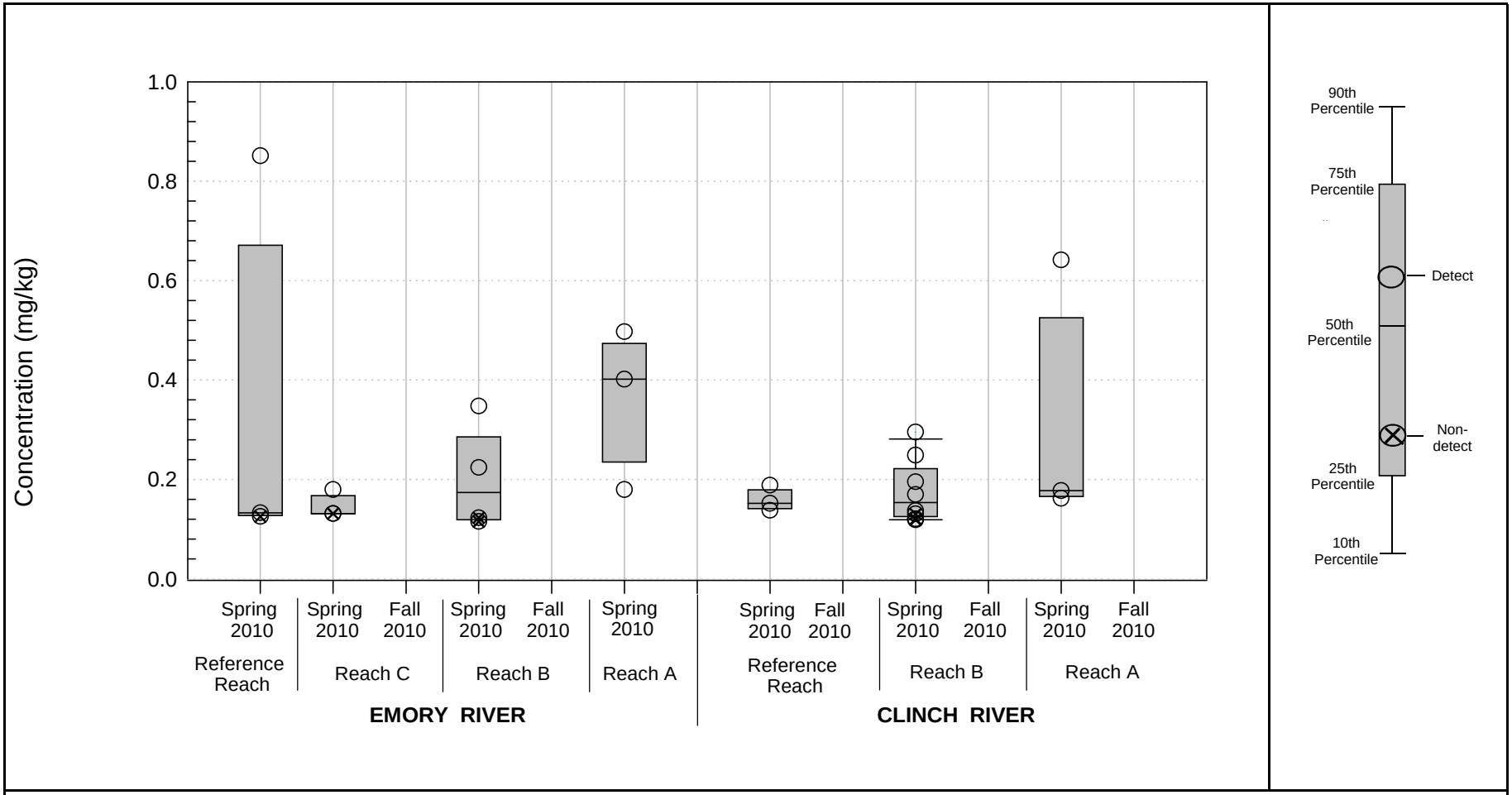
ARCADIS

Whole Body
Bluegill - Cadmium
TVA Kingston



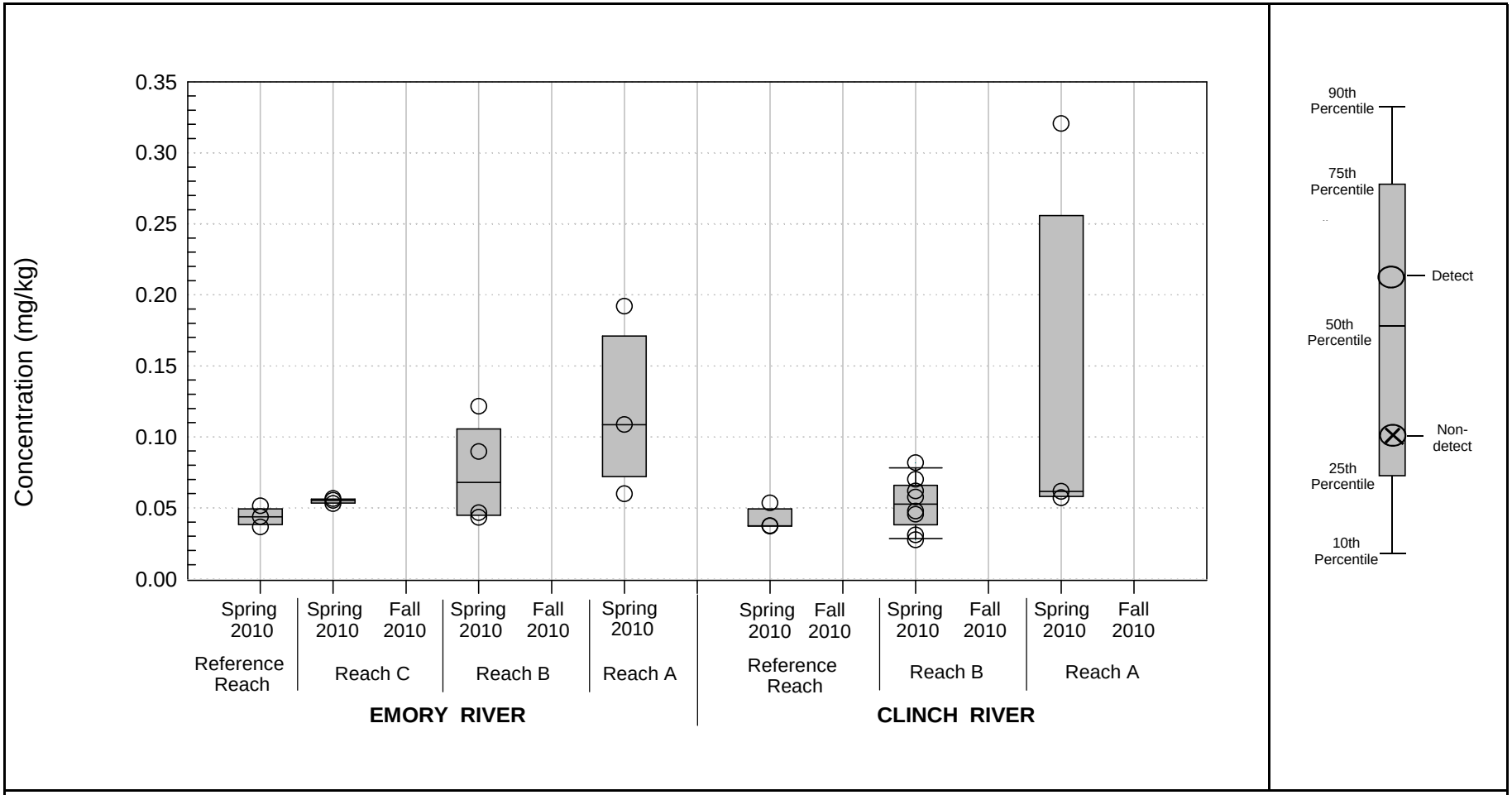
ARCADIS

Whole Body
Bluegill - Calcium
TVA Kingston



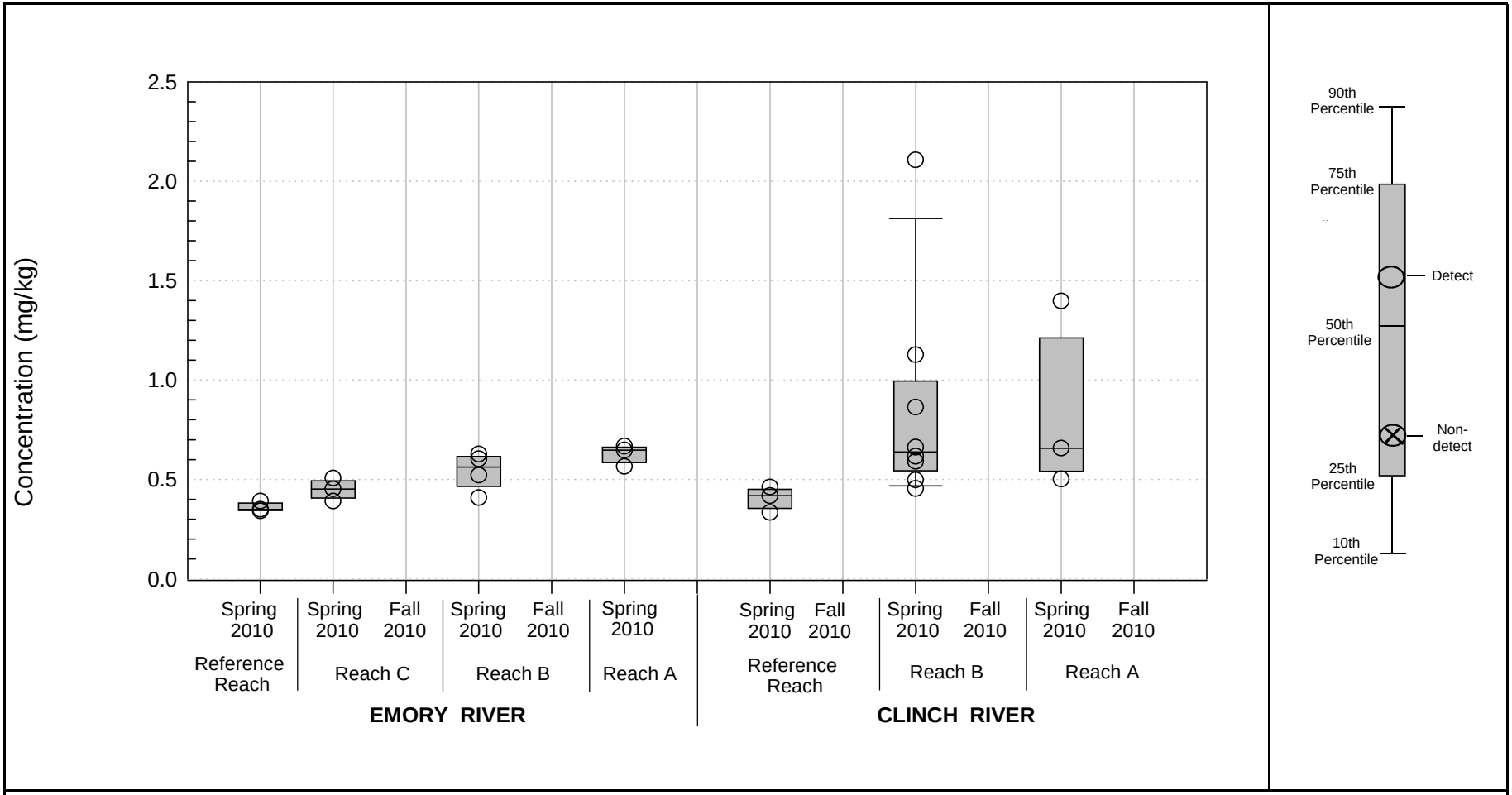
ARCADIS

Whole Body
Bluegill - Chromium
TVA Kingston



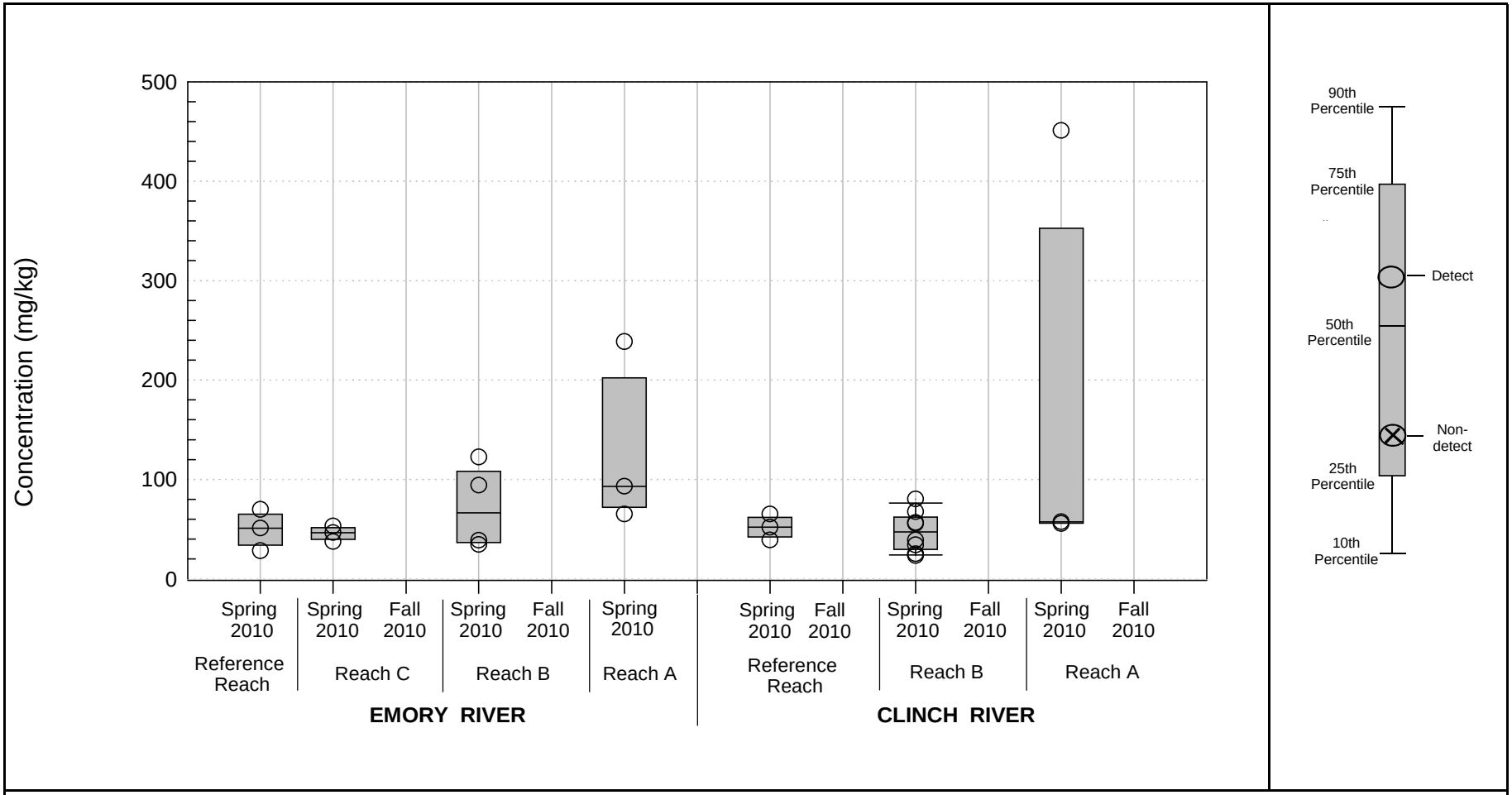
ARCADIS

Whole Body
Bluegill - Cobalt
TVA Kingston



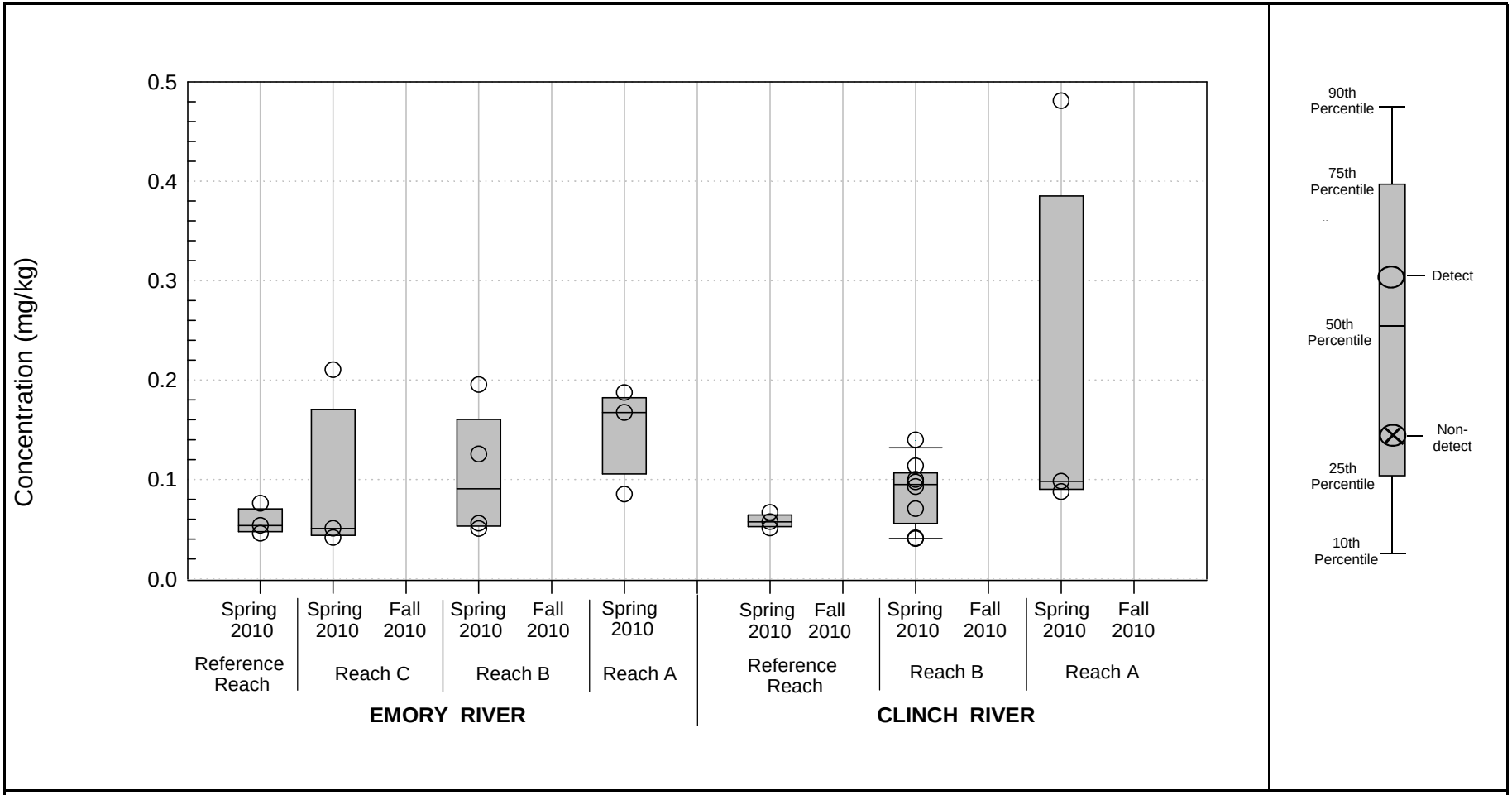
ARCADIS

Whole Body
Bluegill - Copper
TVA Kingston



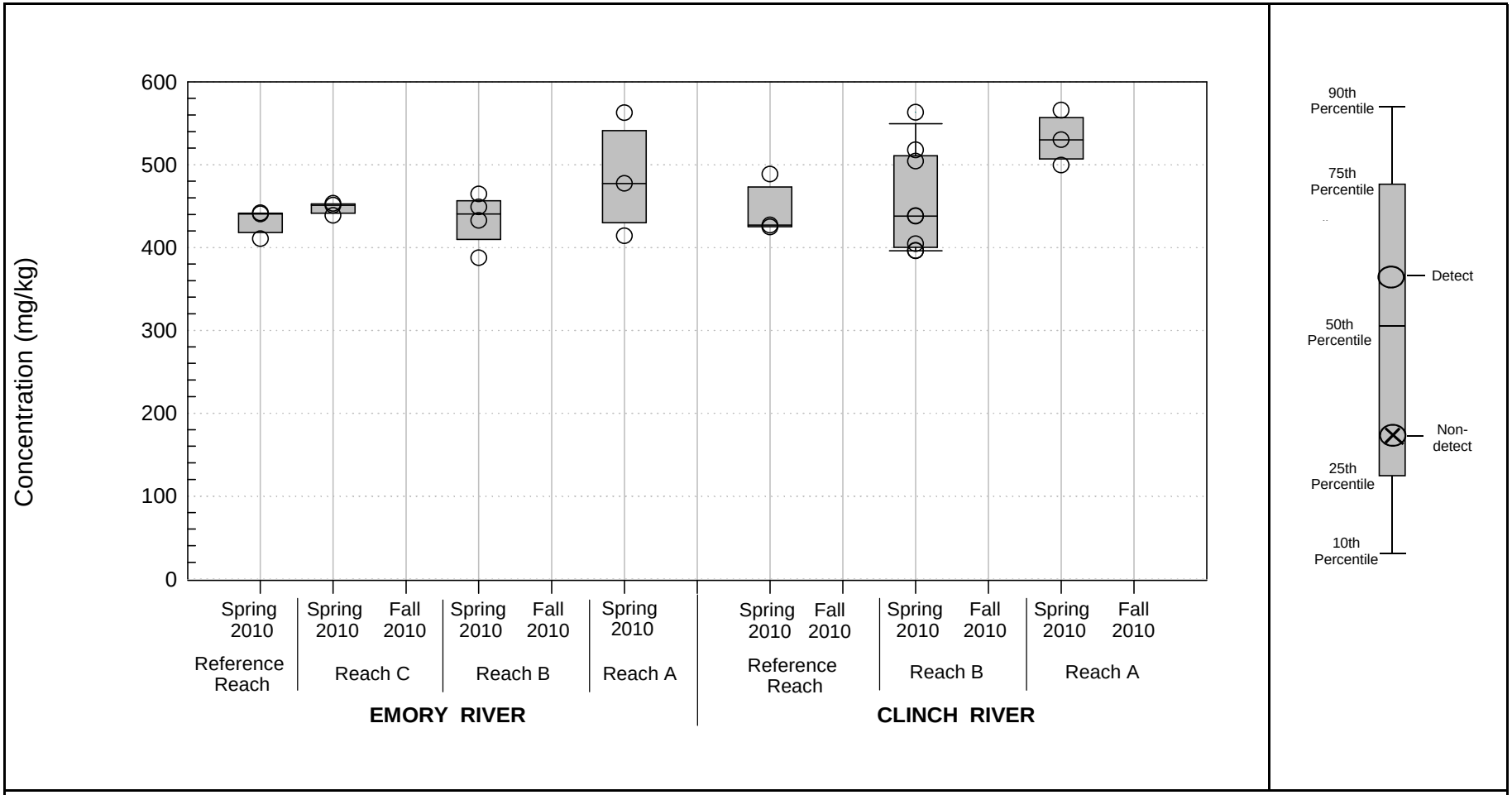
ARCADIS

Whole Body
Bluegill - Iron
TVA Kingston



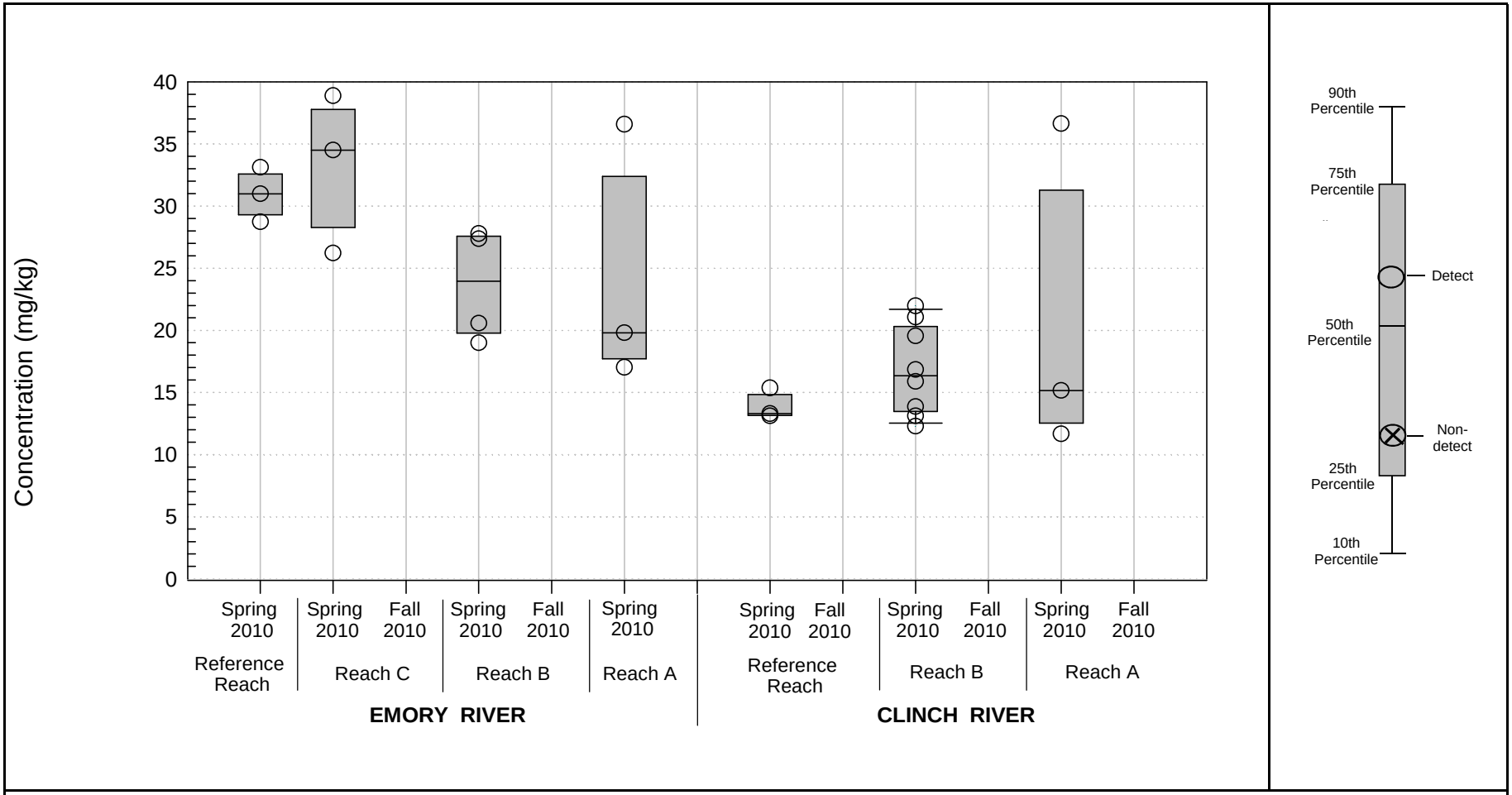
ARCADIS

Whole Body
Bluegill - Lead
TVA Kingston



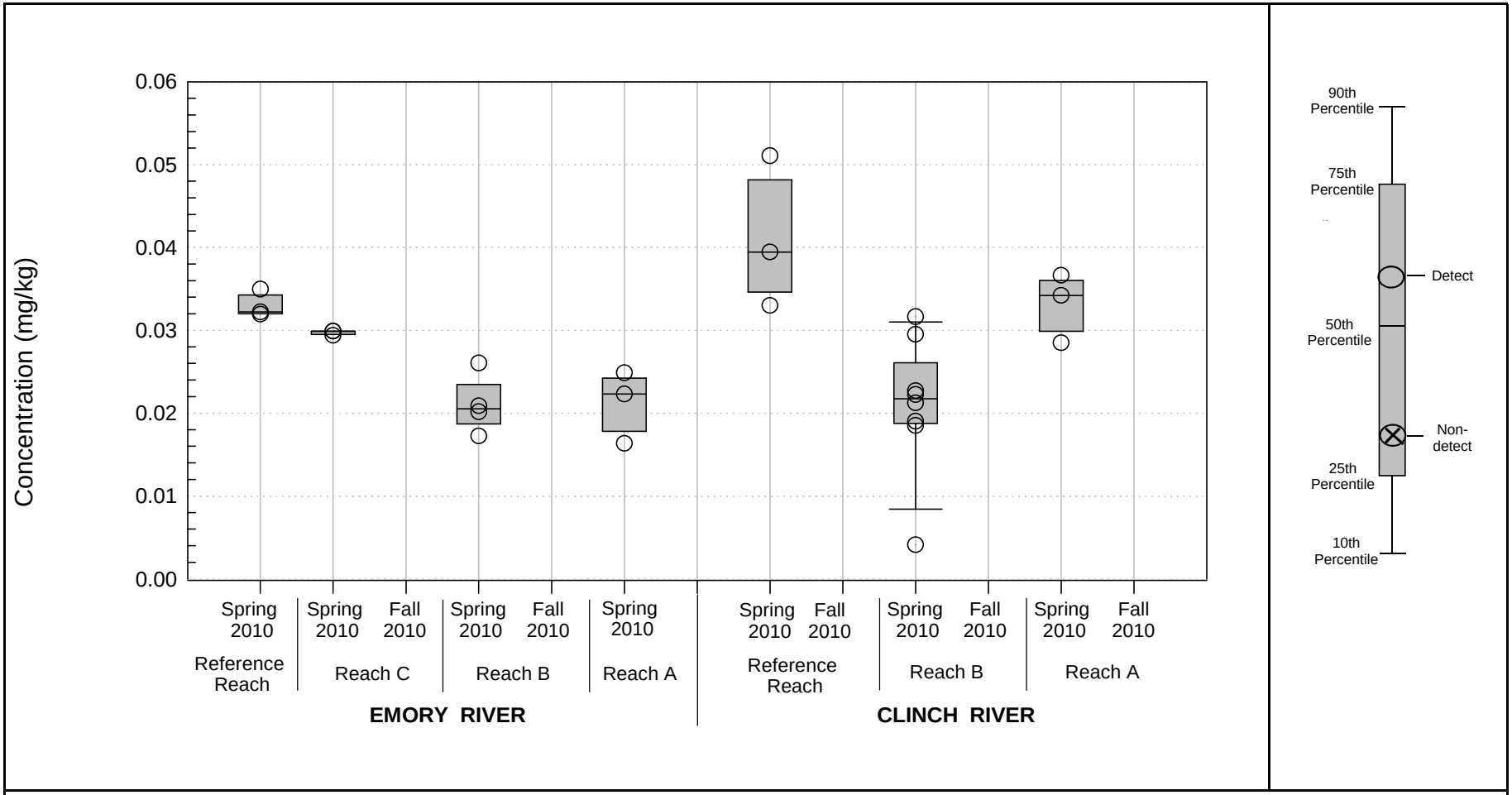
ARCADIS

Whole Body
Bluegill - Magnesium
TVA Kingston



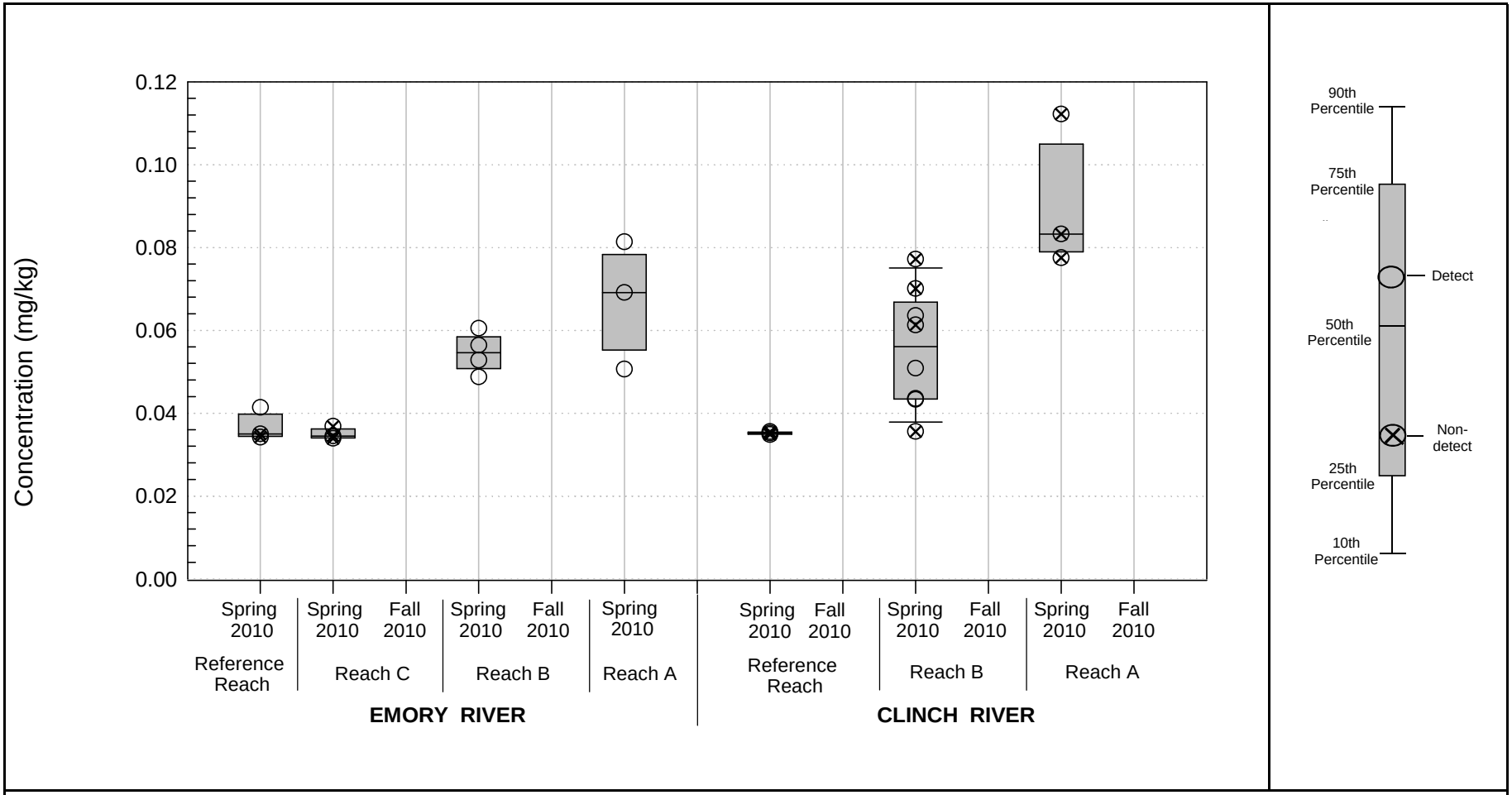
ARCADIS

Whole Body
Bluegill - Manganese
TVA Kingston



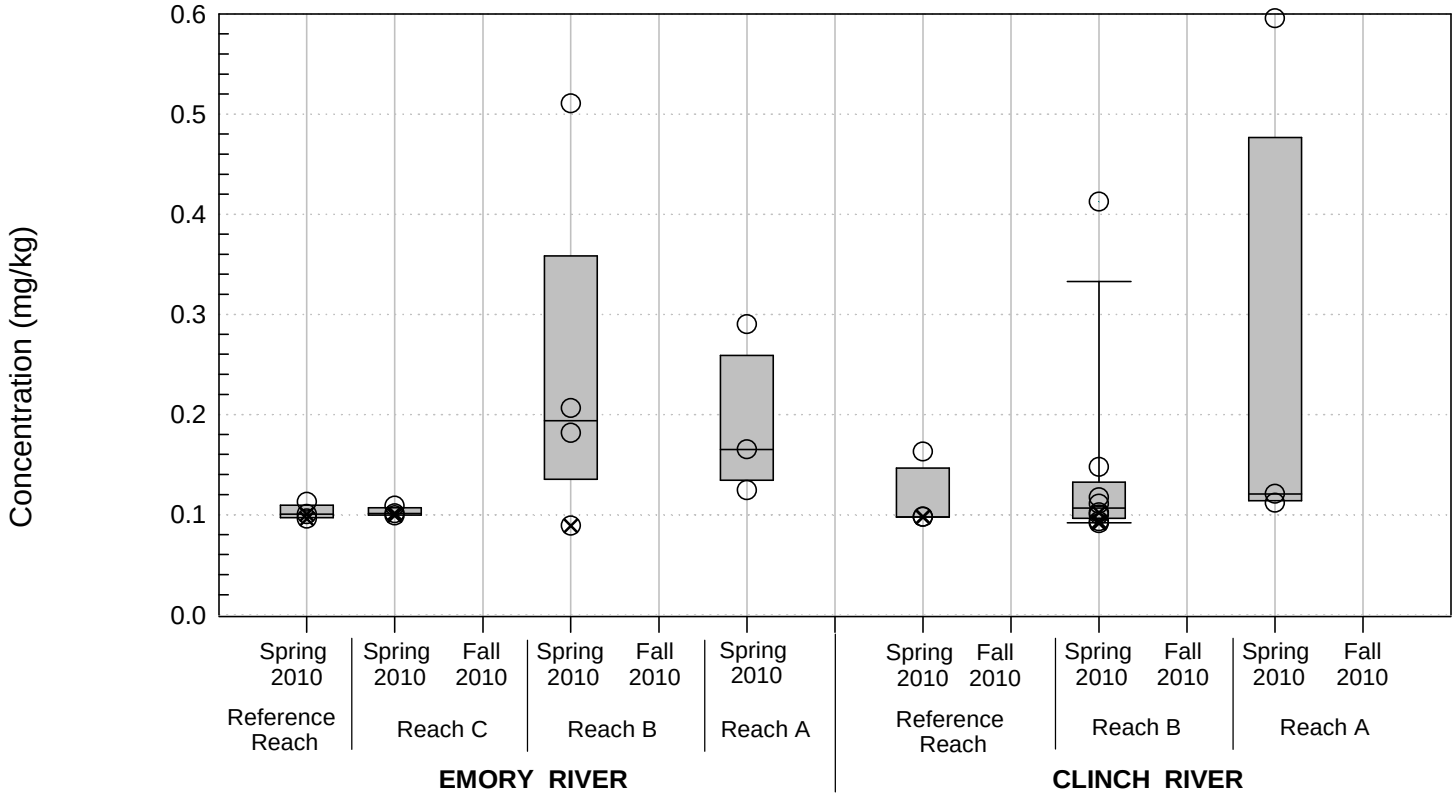
ARCADIS

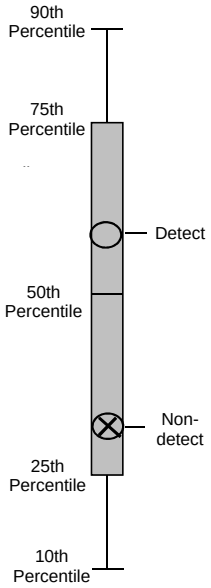
Whole Body
Bluegill - Mercury
TVA Kingston



ARCADIS

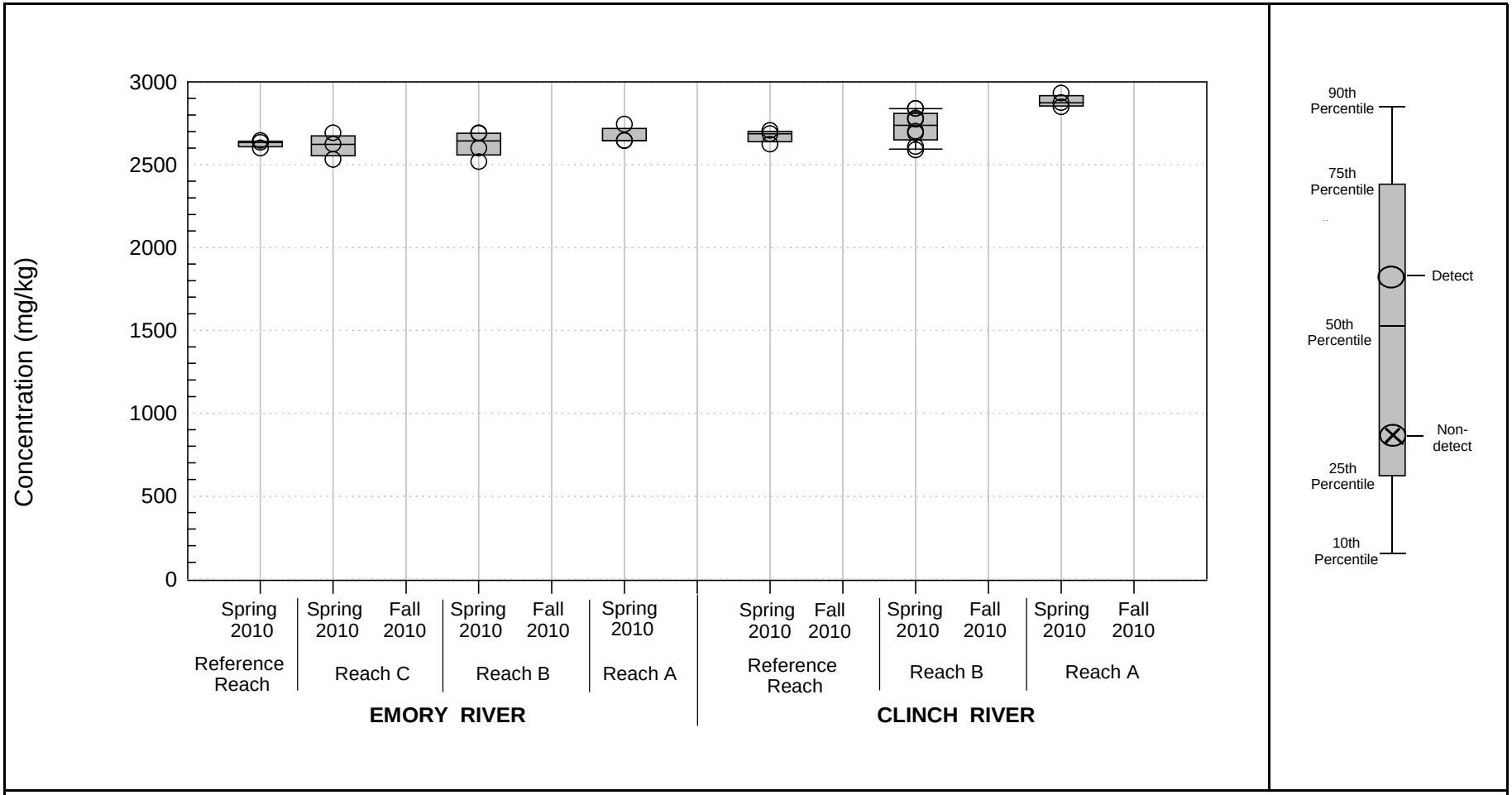
Whole Body
Bluegill - Molybdenum
TVA Kingston





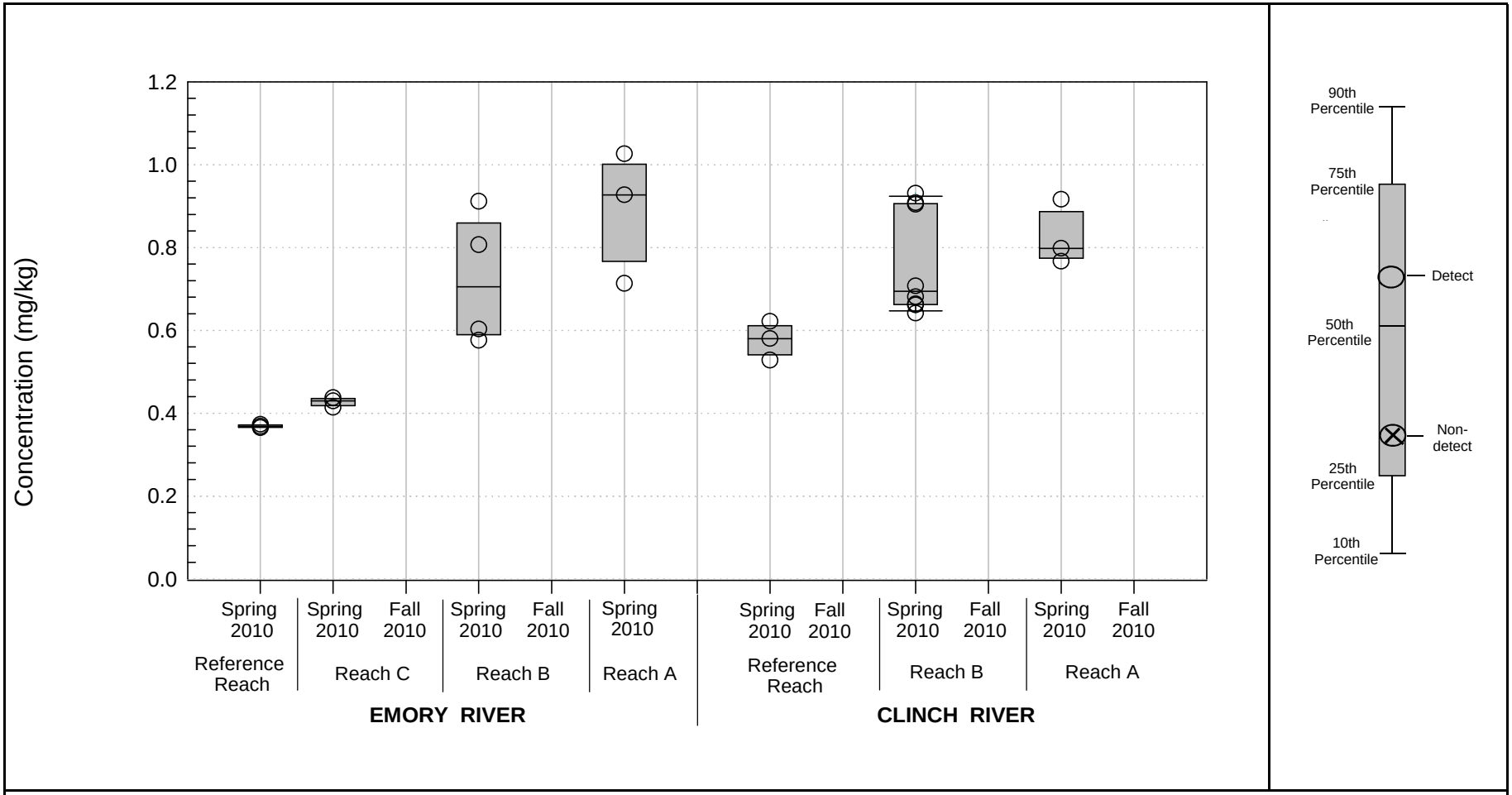
ARCADIS

Whole Body
Bluegill - Nickel
TVA Kingston



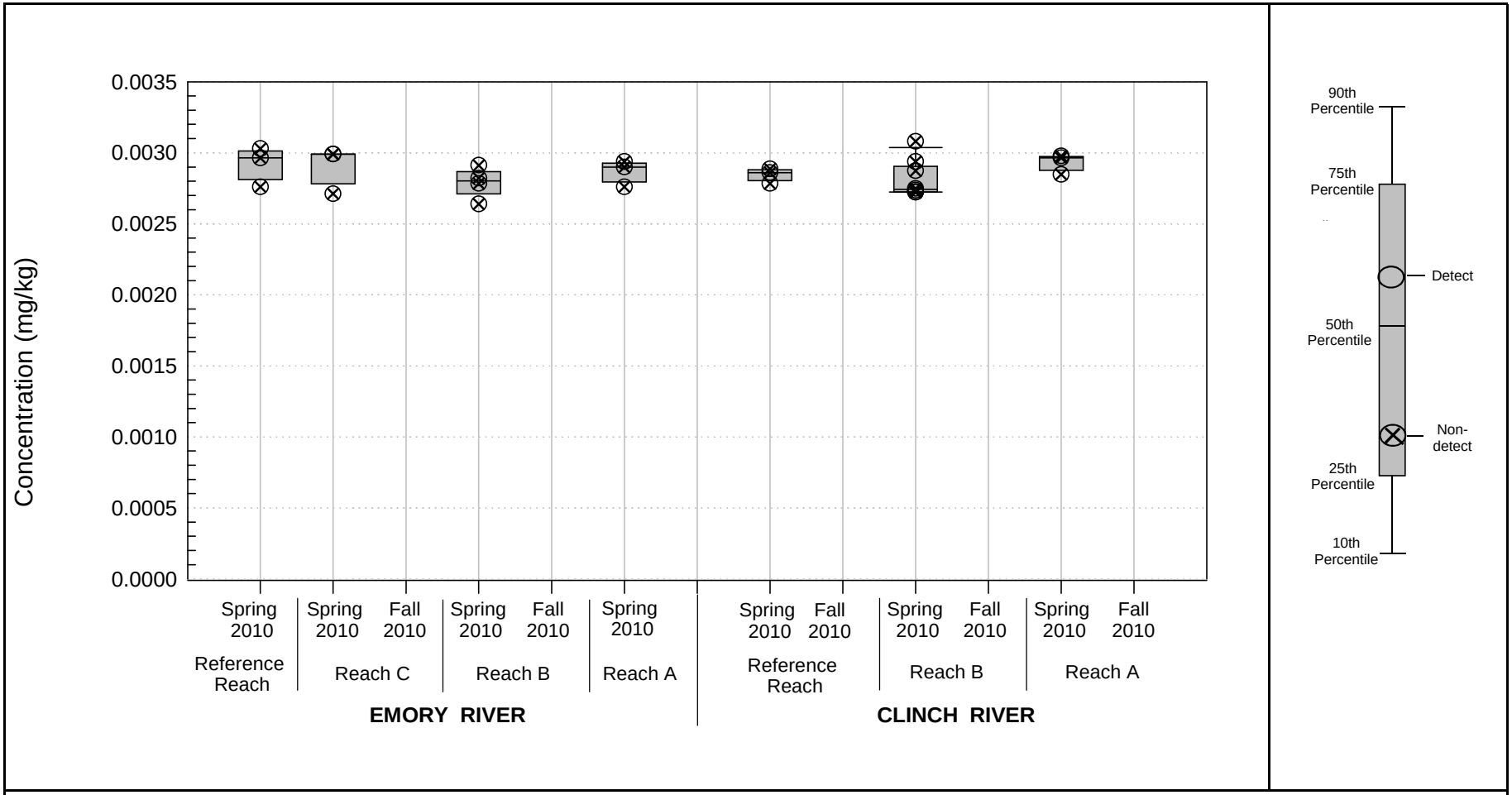
ARCADIS

Whole Body
Bluegill - Potassium
TVA Kingston



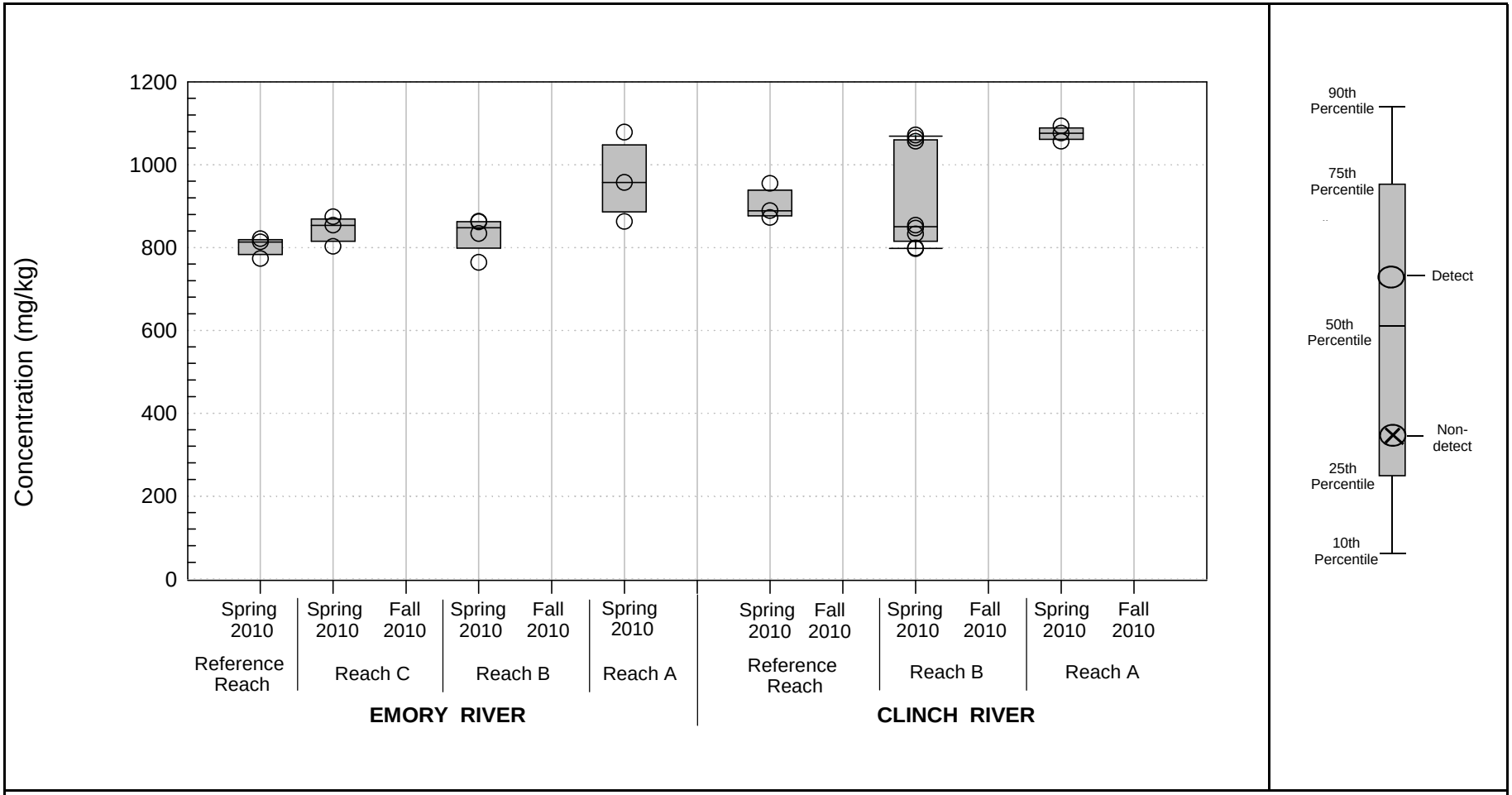
ARCADIS

Whole Body
Bluegill - Selenium
TVA Kingston



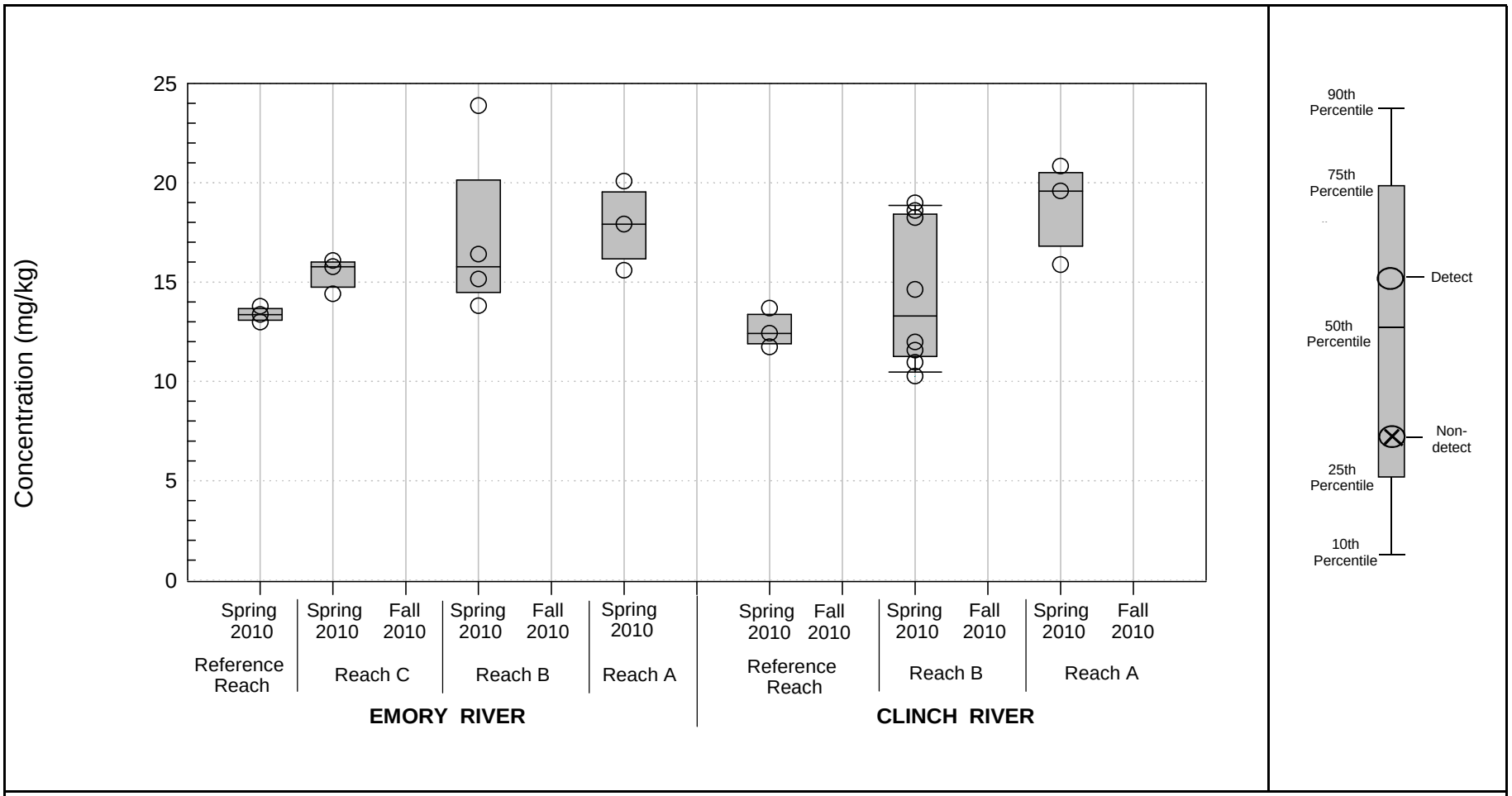
ARCADIS

Whole Body
Bluegill - Silver
TVA Kingston



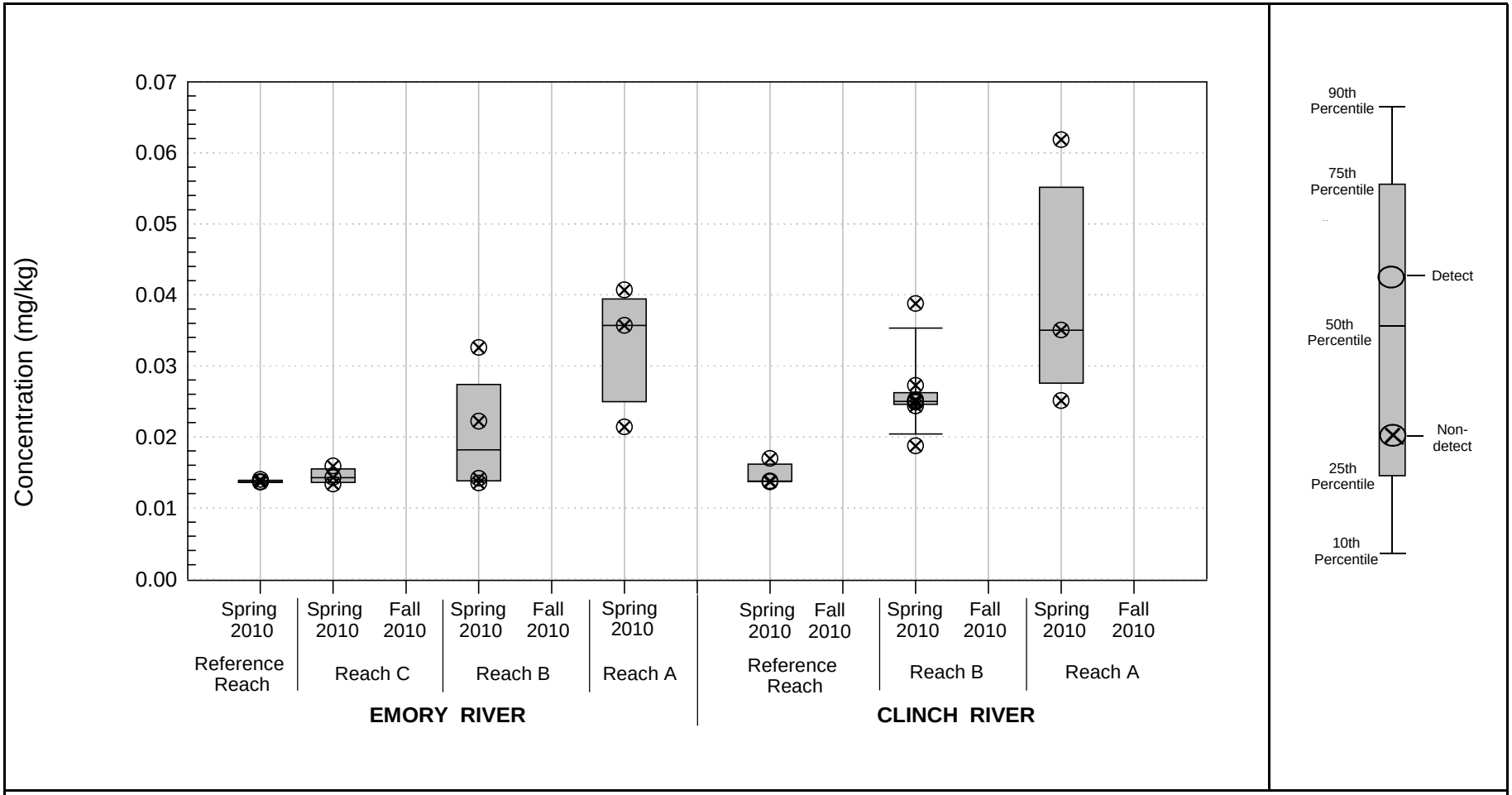
ARCADIS

Whole Body
Bluegill - Sodium
TVA Kingston



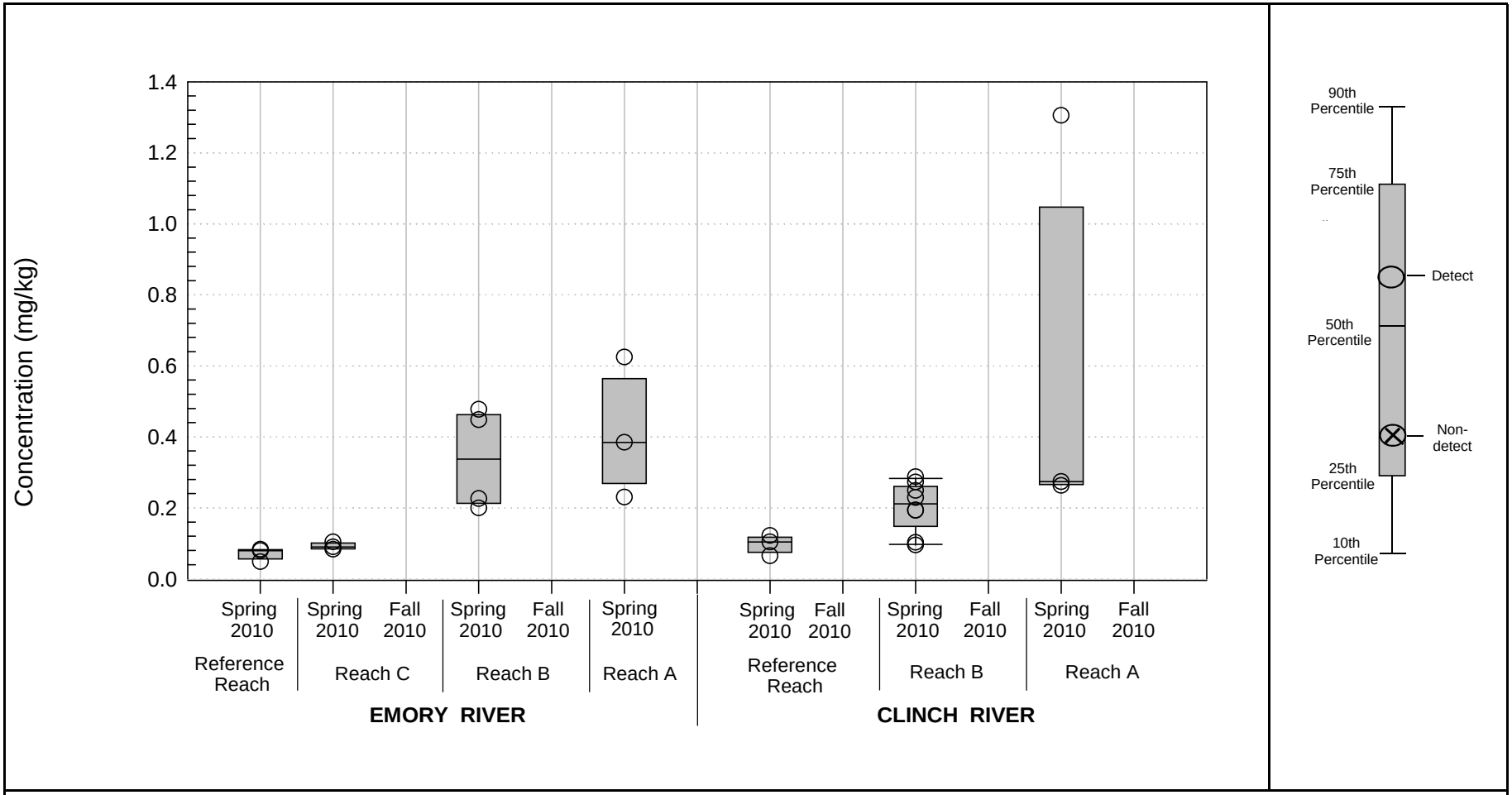
ARCADIS

Whole Body
Bluegill - Strontium
TVA Kingston



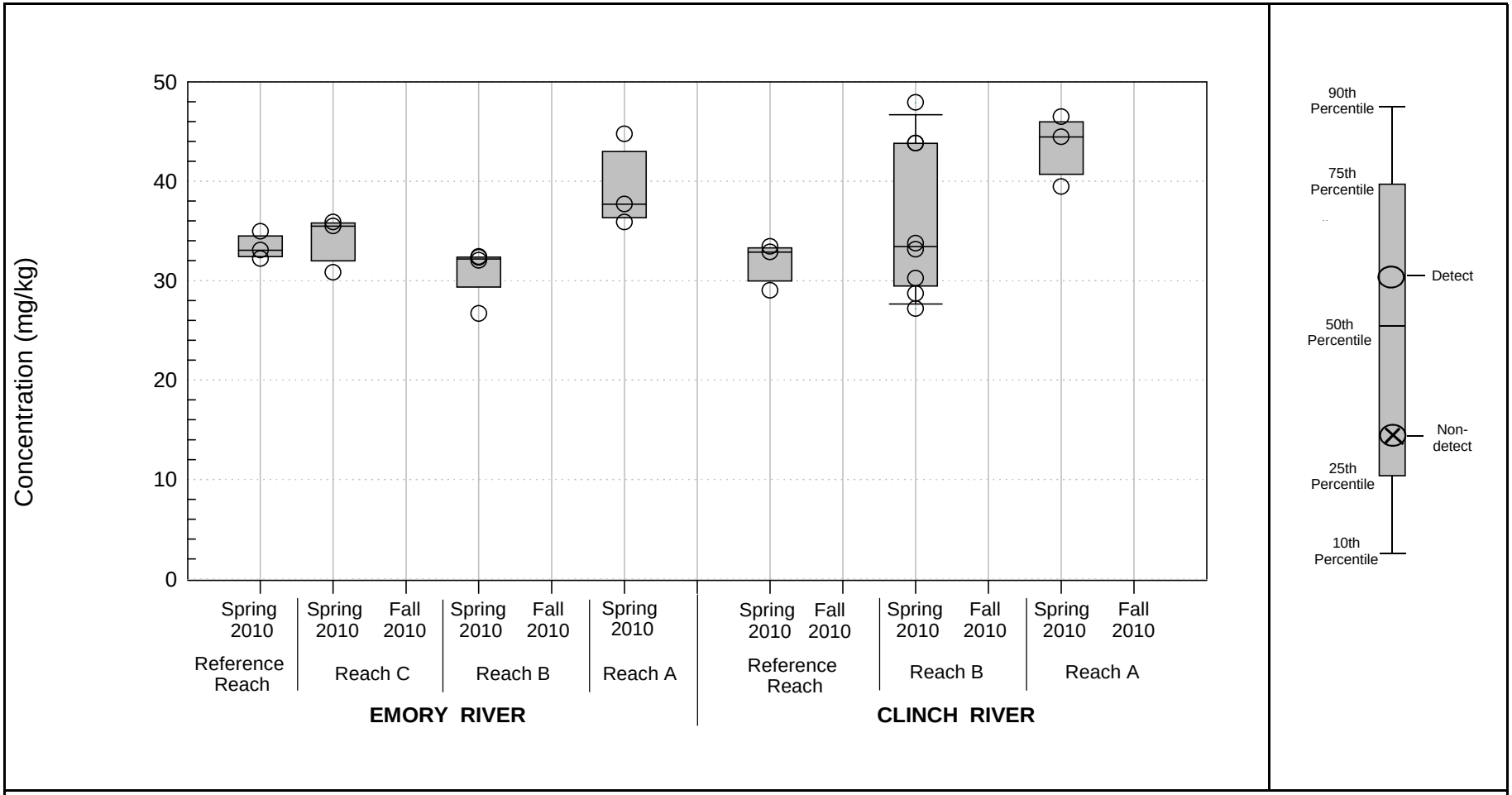
ARCADIS

Whole Body
Bluegill - Thallium
TVA Kingston



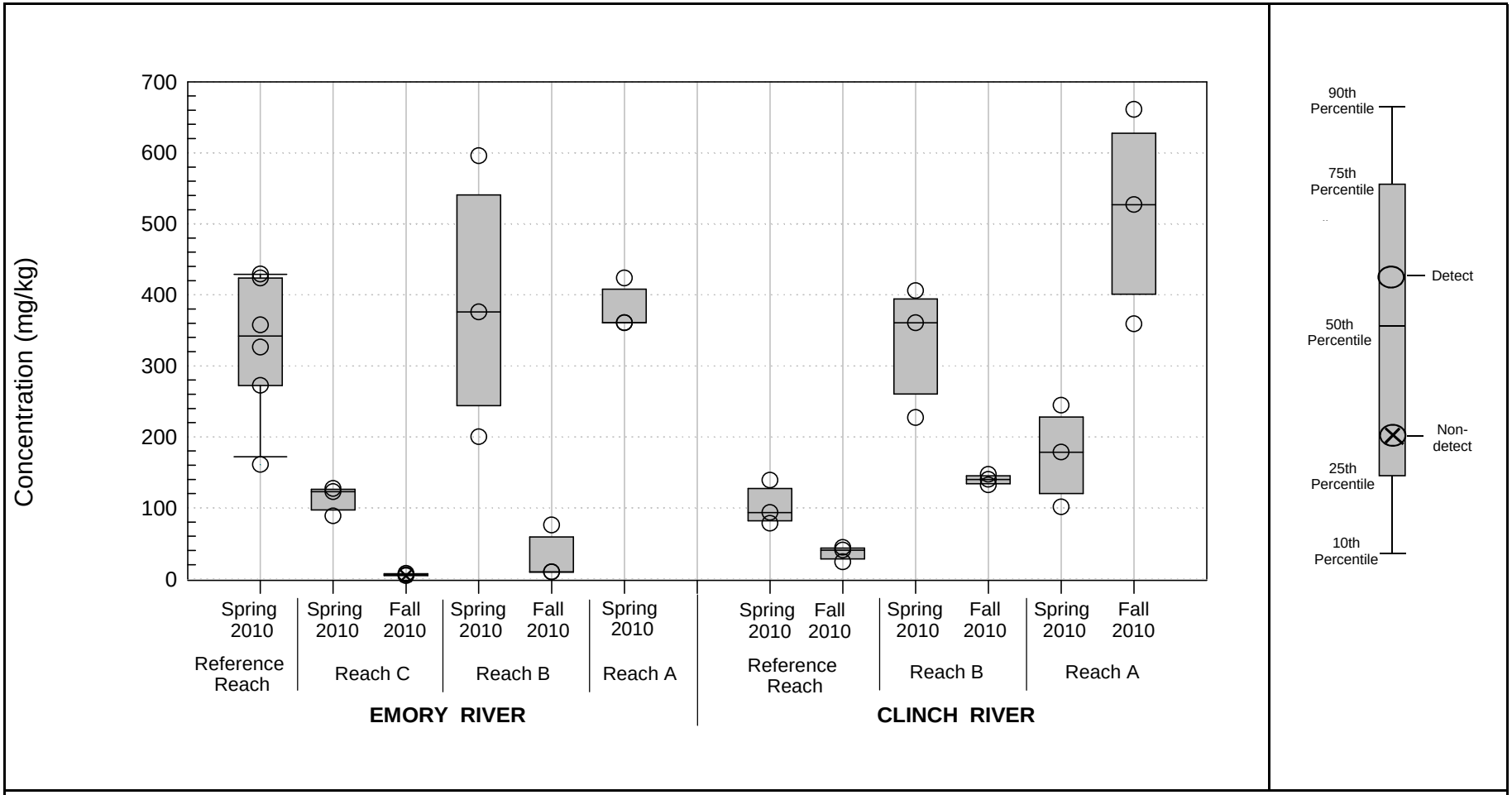
ARCADIS

Whole Body
Bluegill - Vanadium
TVA Kingston



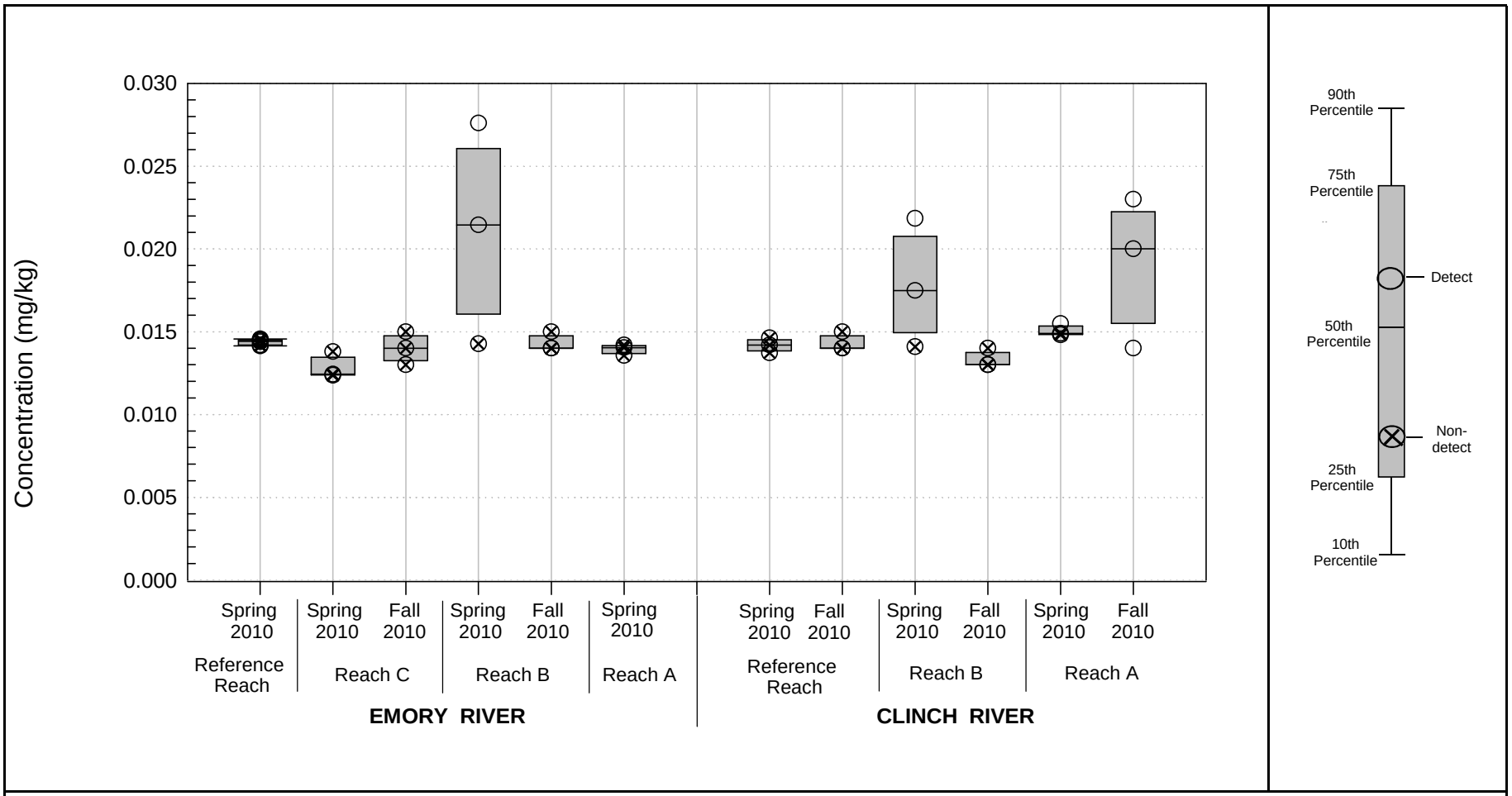
ARCADIS

Whole Body
Bluegill - Zinc
TVA Kingston



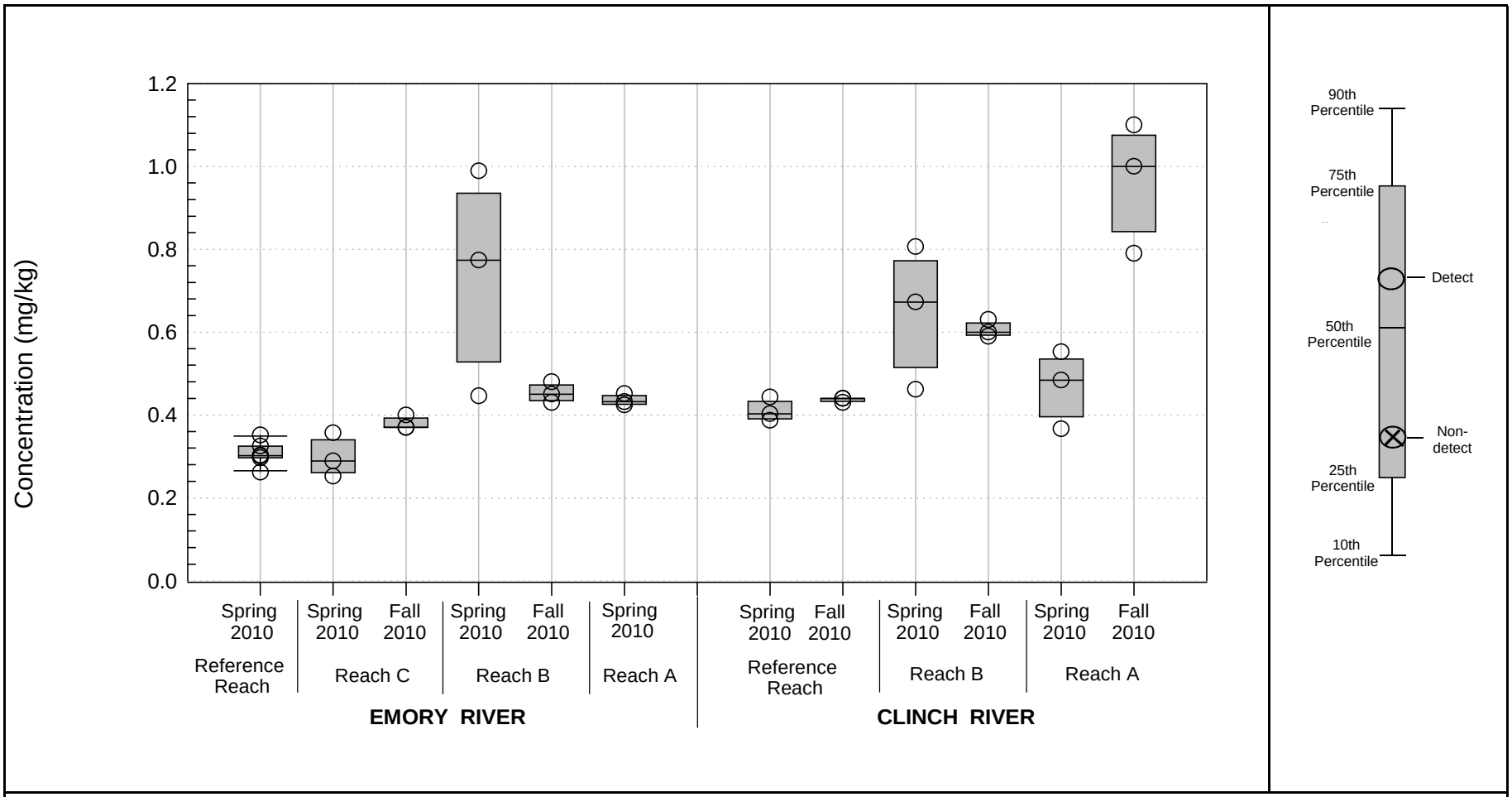
ARCADIS

Whole Body
Gizzard Shad - Aluminum
TVA Kingston



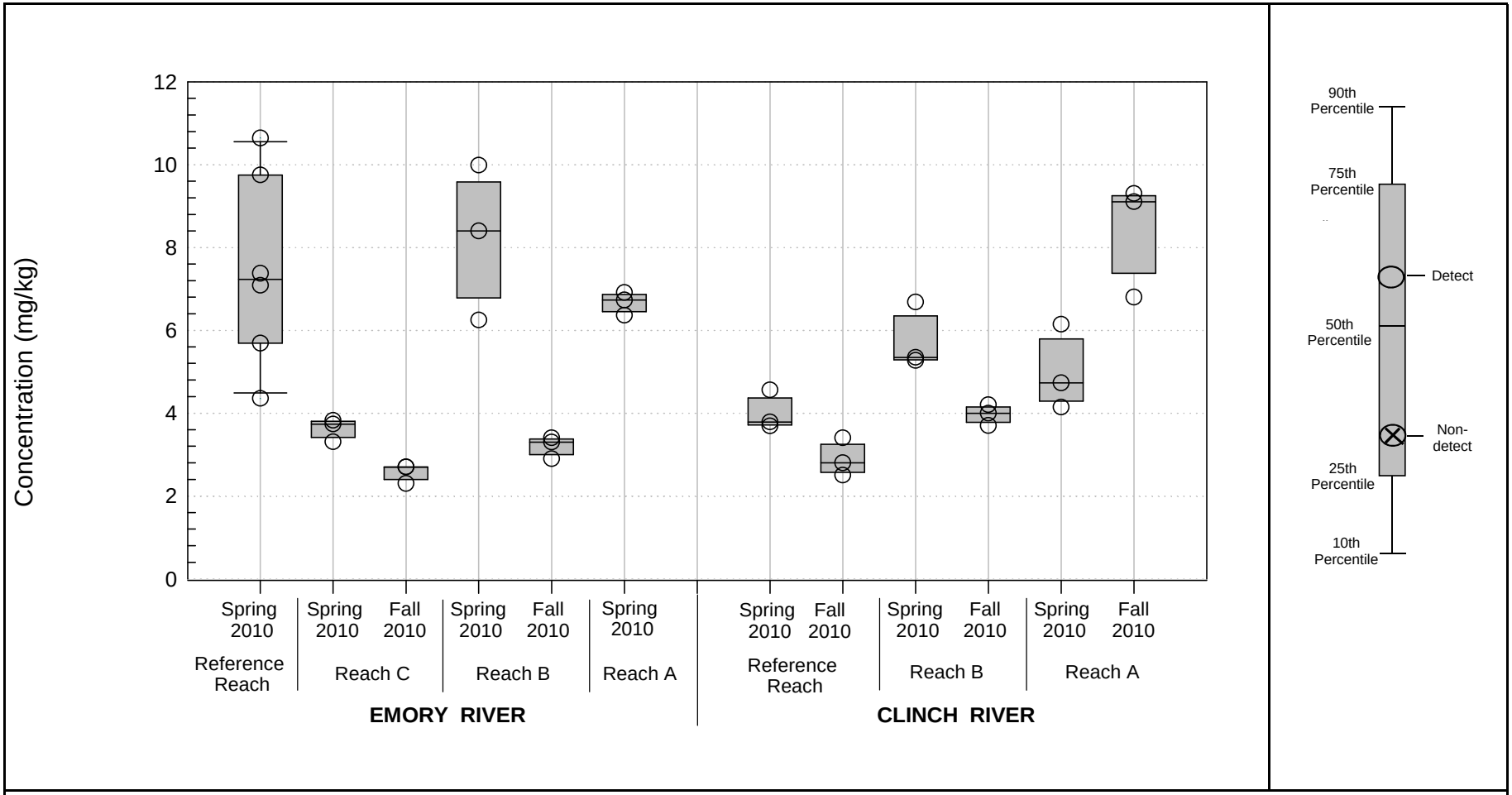
ARCADIS

Whole Body
Gizzard Shad - Antimony
TVA Kingston



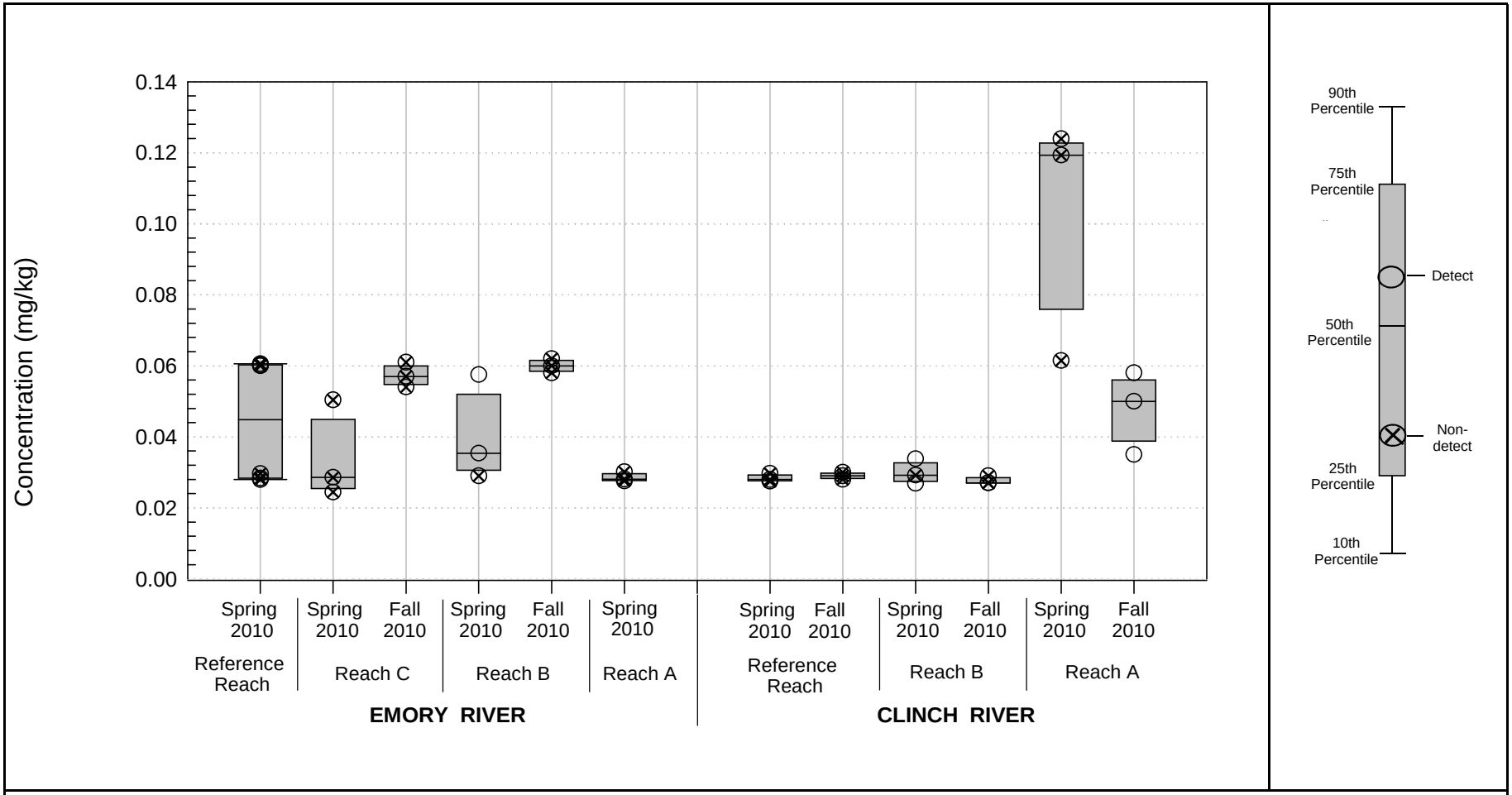
ARCADIS

Whole Body
Gizzard Shad - Arsenic
TVA Kingston



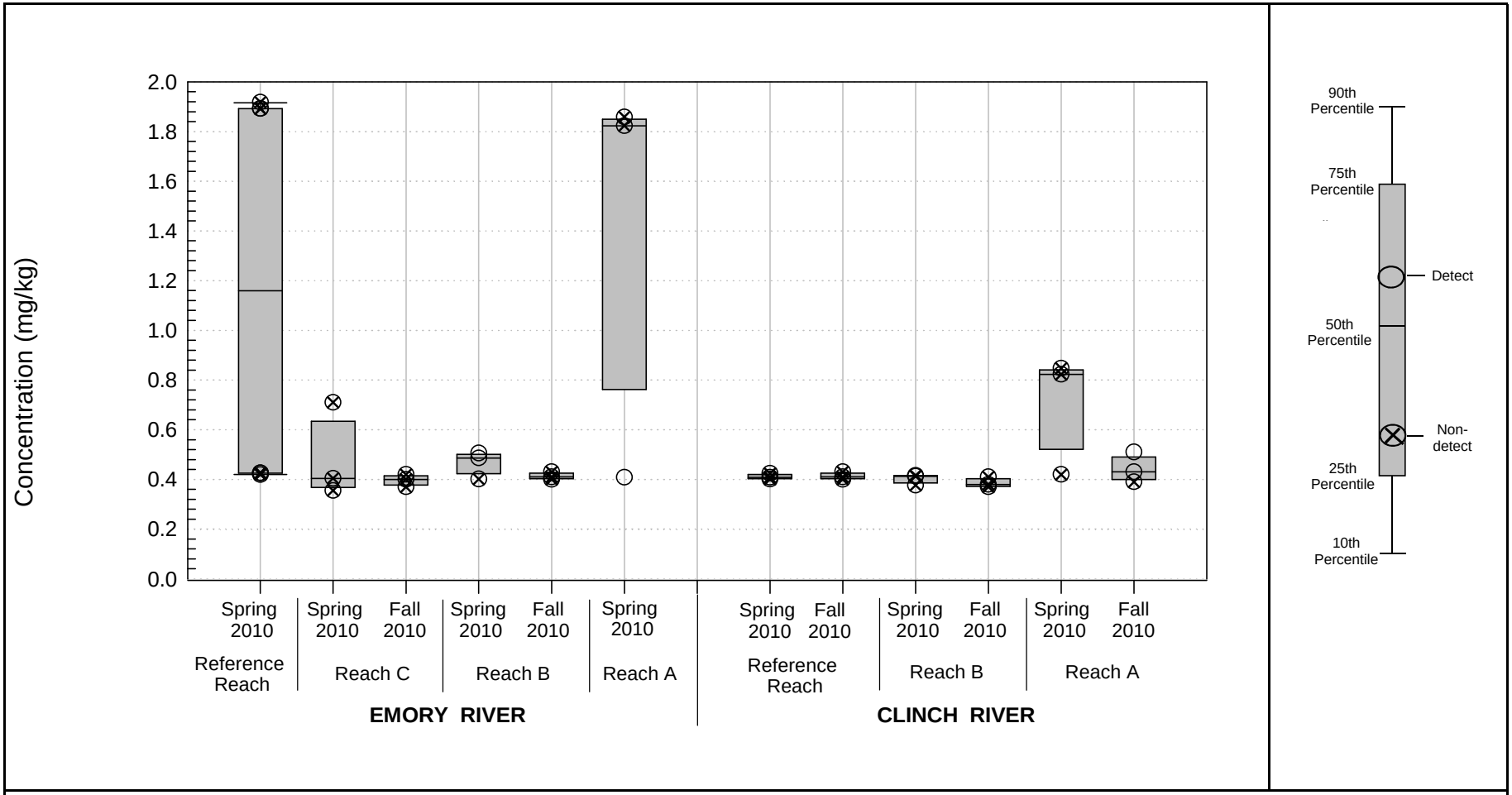
ARCADIS

Whole Body
Gizzard Shad - Barium
TVA Kingston



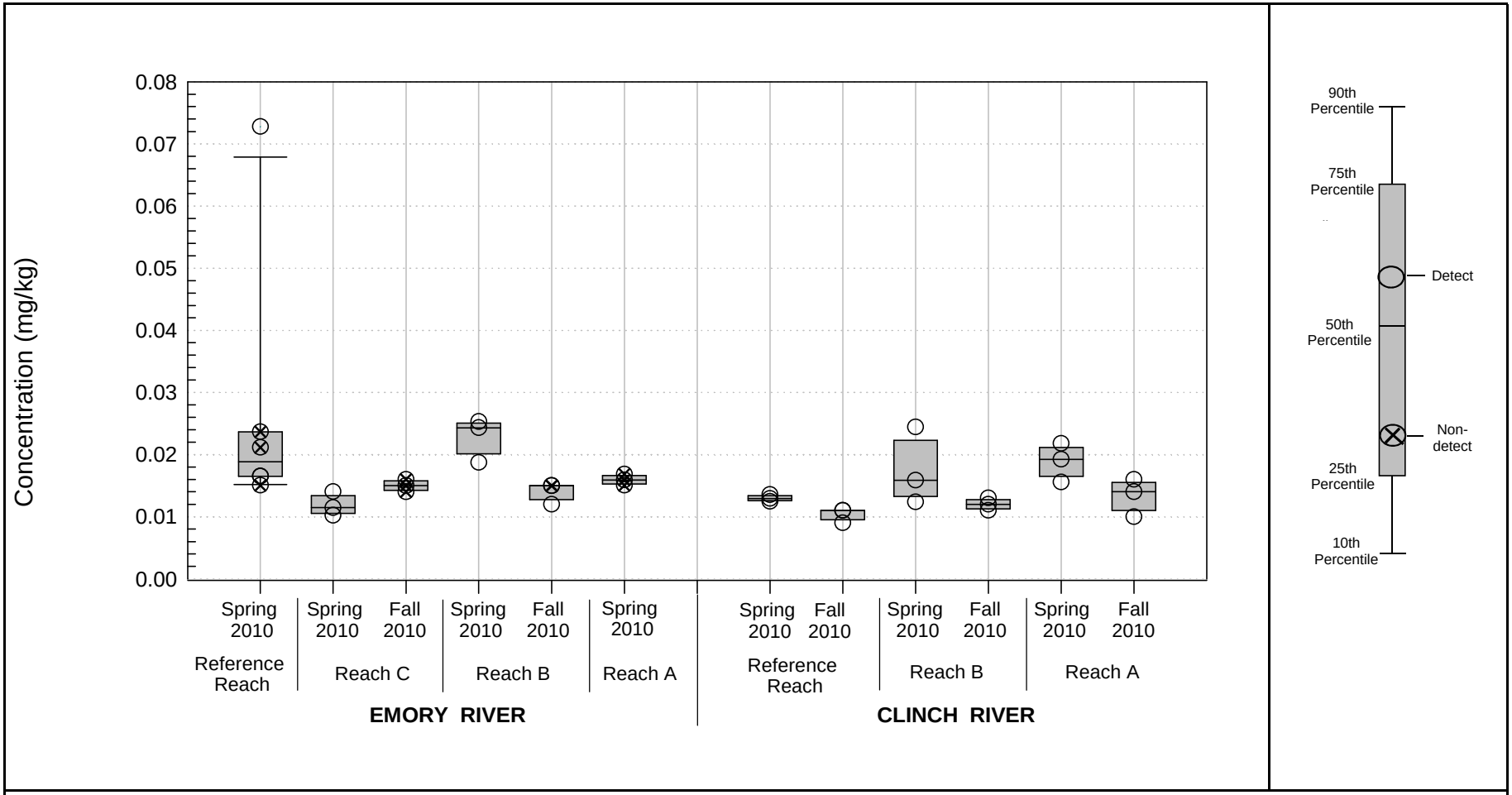
ARCADIS

Whole Body
Gizzard Shad - Beryllium
TVA Kingston



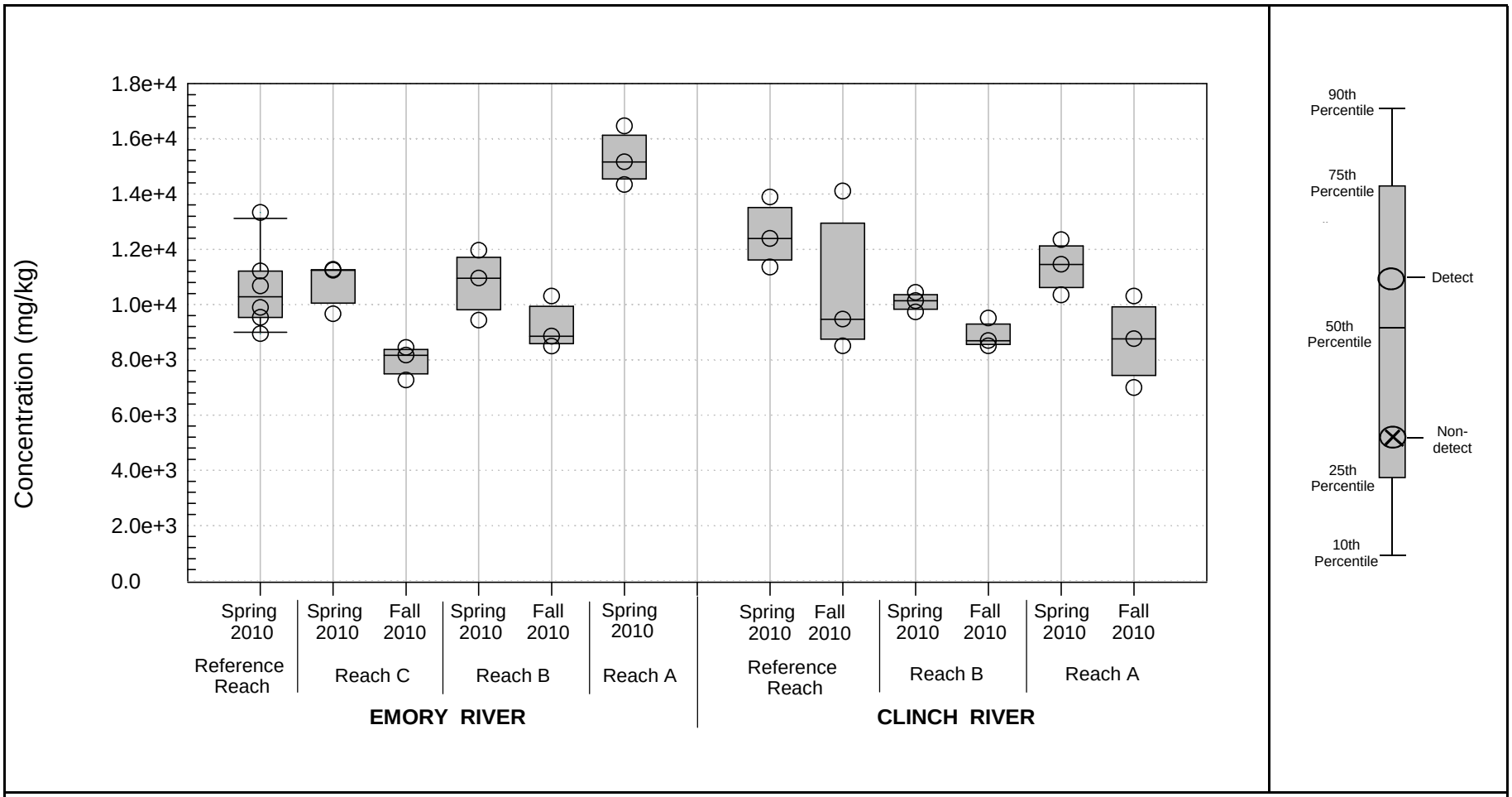
ARCADIS

Whole Body
Gizzard Shad - Boron
TVA Kingston



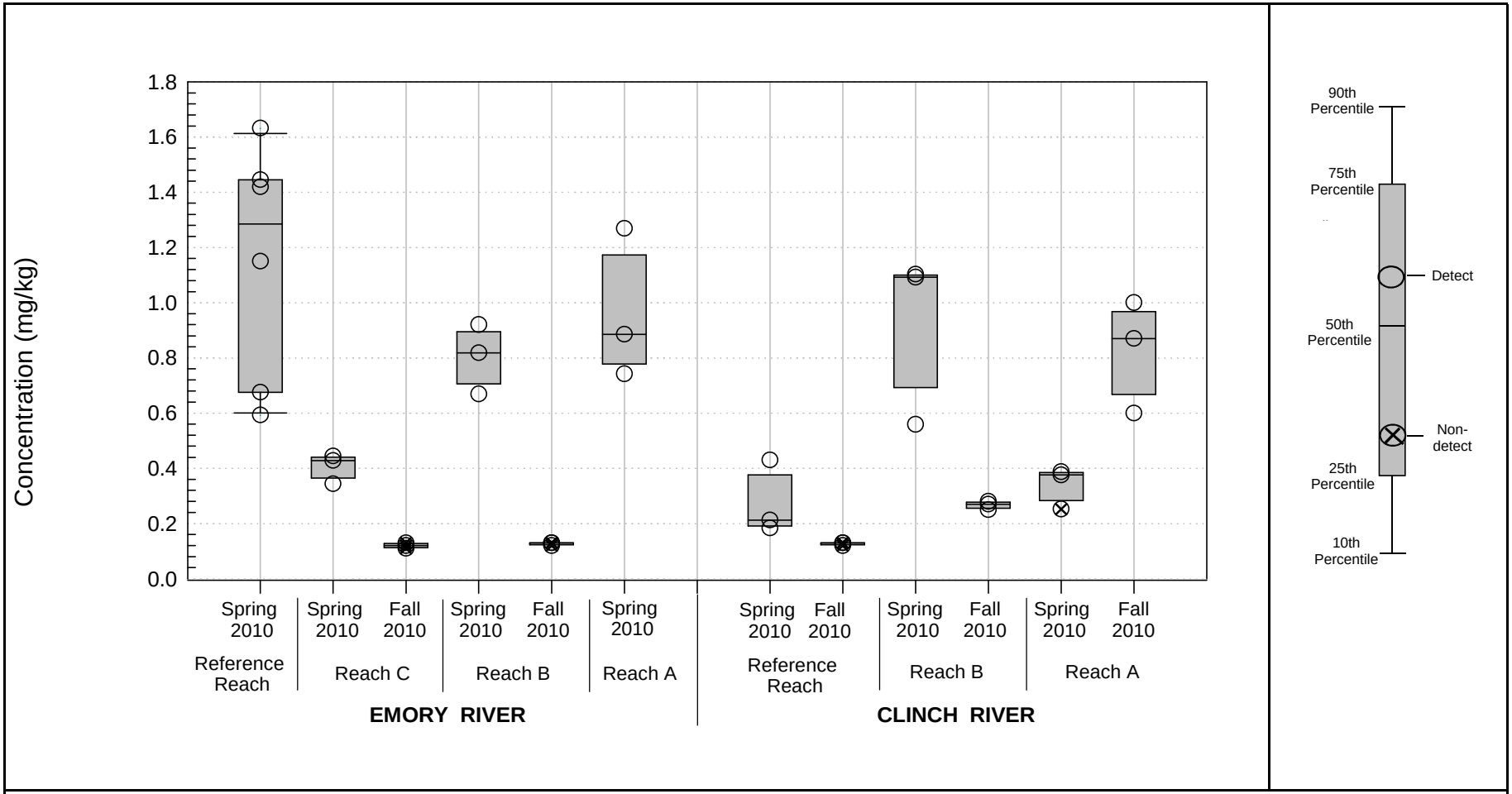
ARCADIS

Whole Body
Gizzard Shad - Cadmium
TVA Kingston



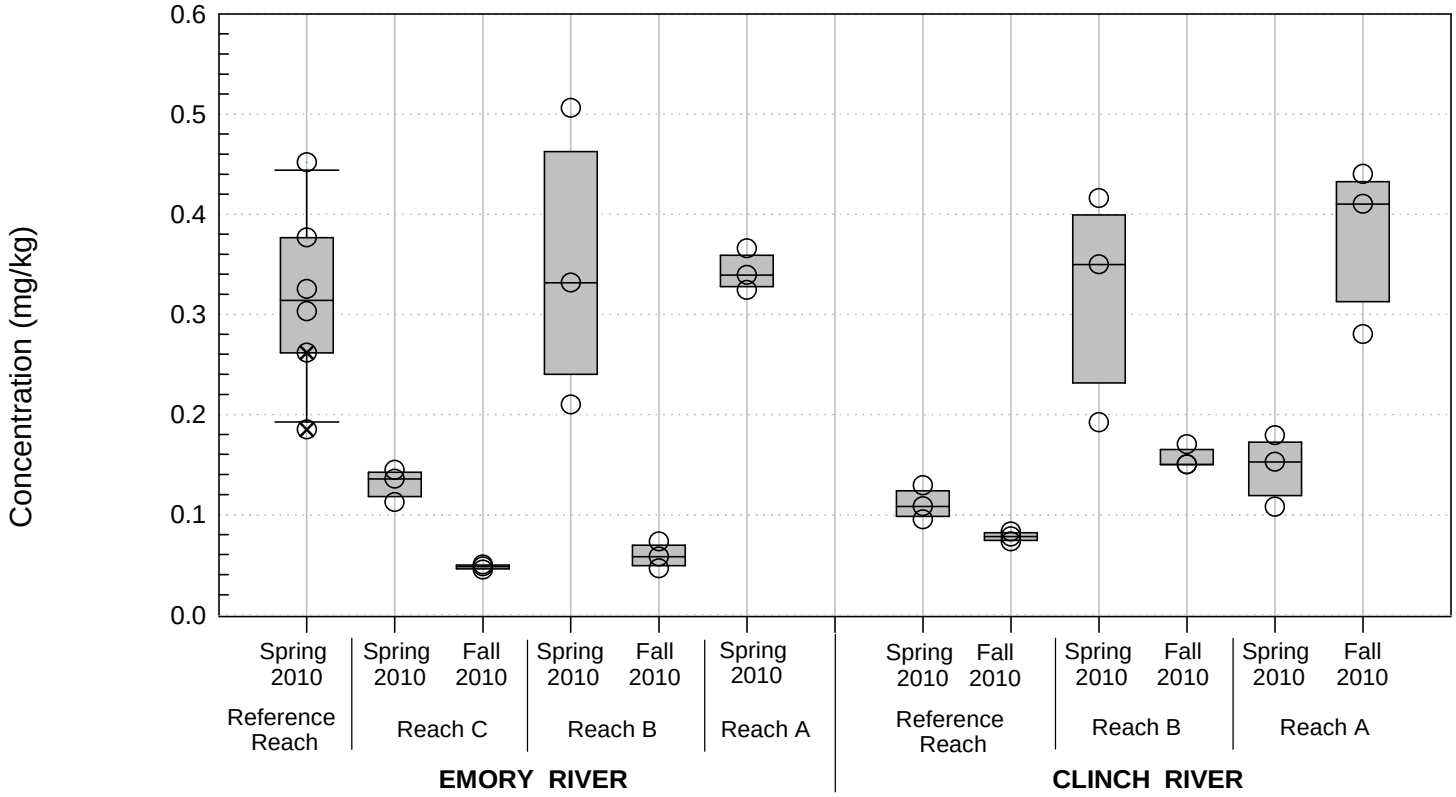
ARCADIS

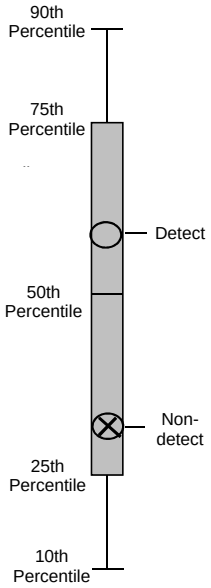
Whole Body
Gizzard Shad - Calcium
TVA Kingston



ARCADIS

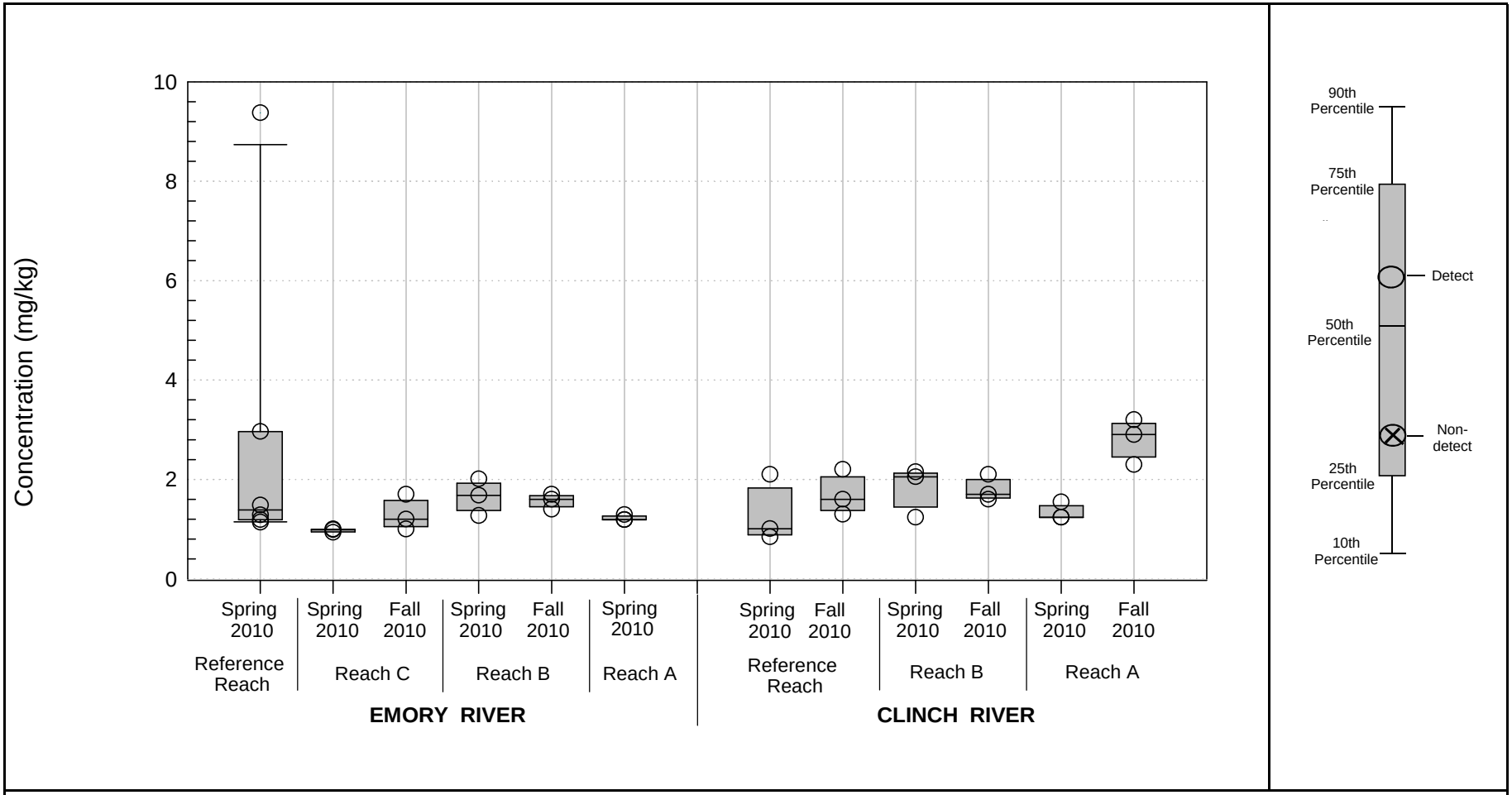
Whole Body
Gizzard Shad - Chromium
TVA Kingston





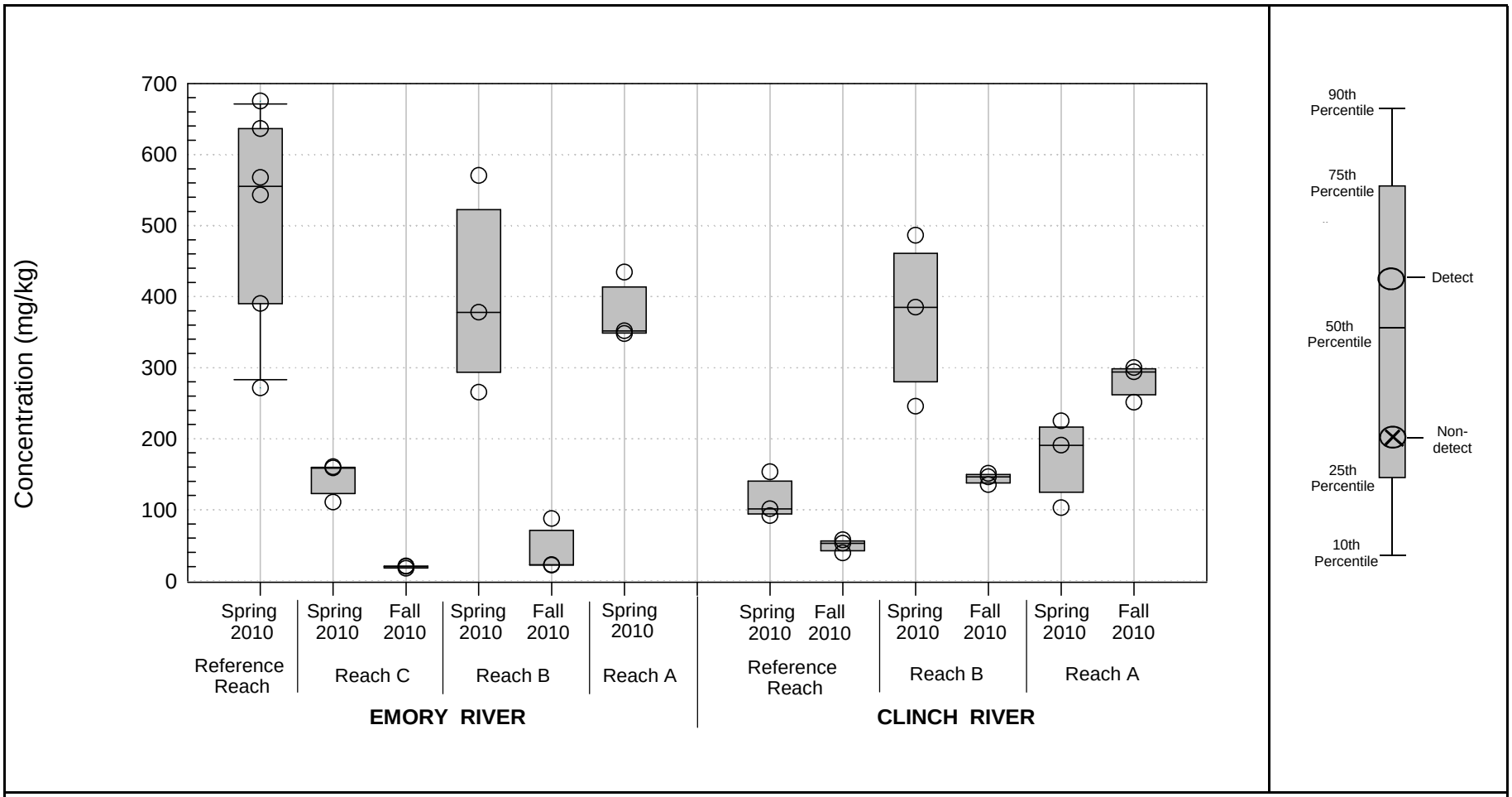
ARCADIS

Whole Body
Gizzard Shad - Cobalt
TVA Kingston



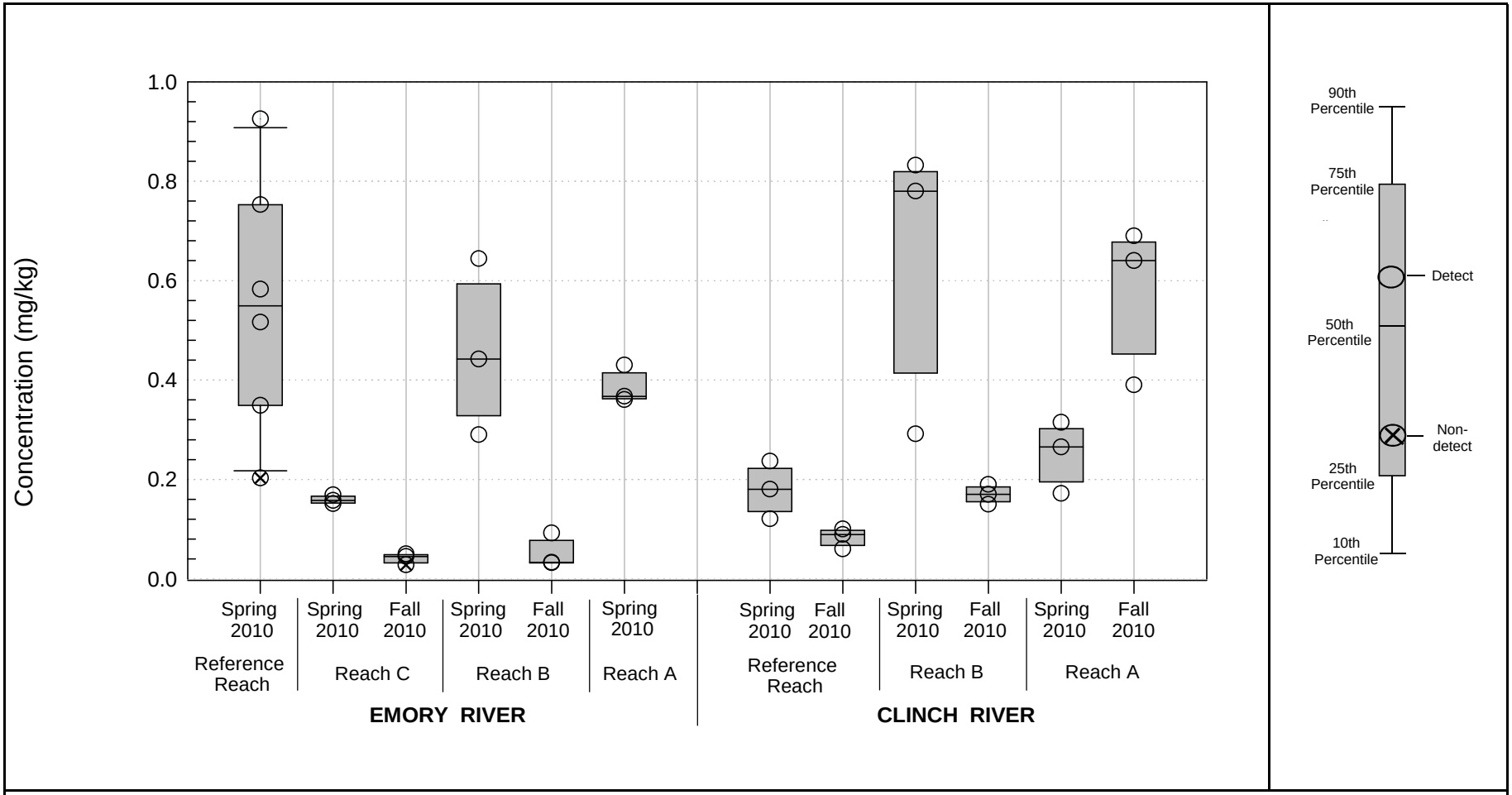
ARCADIS

Whole Body
Gizzard Shad - Copper
TVA Kingston



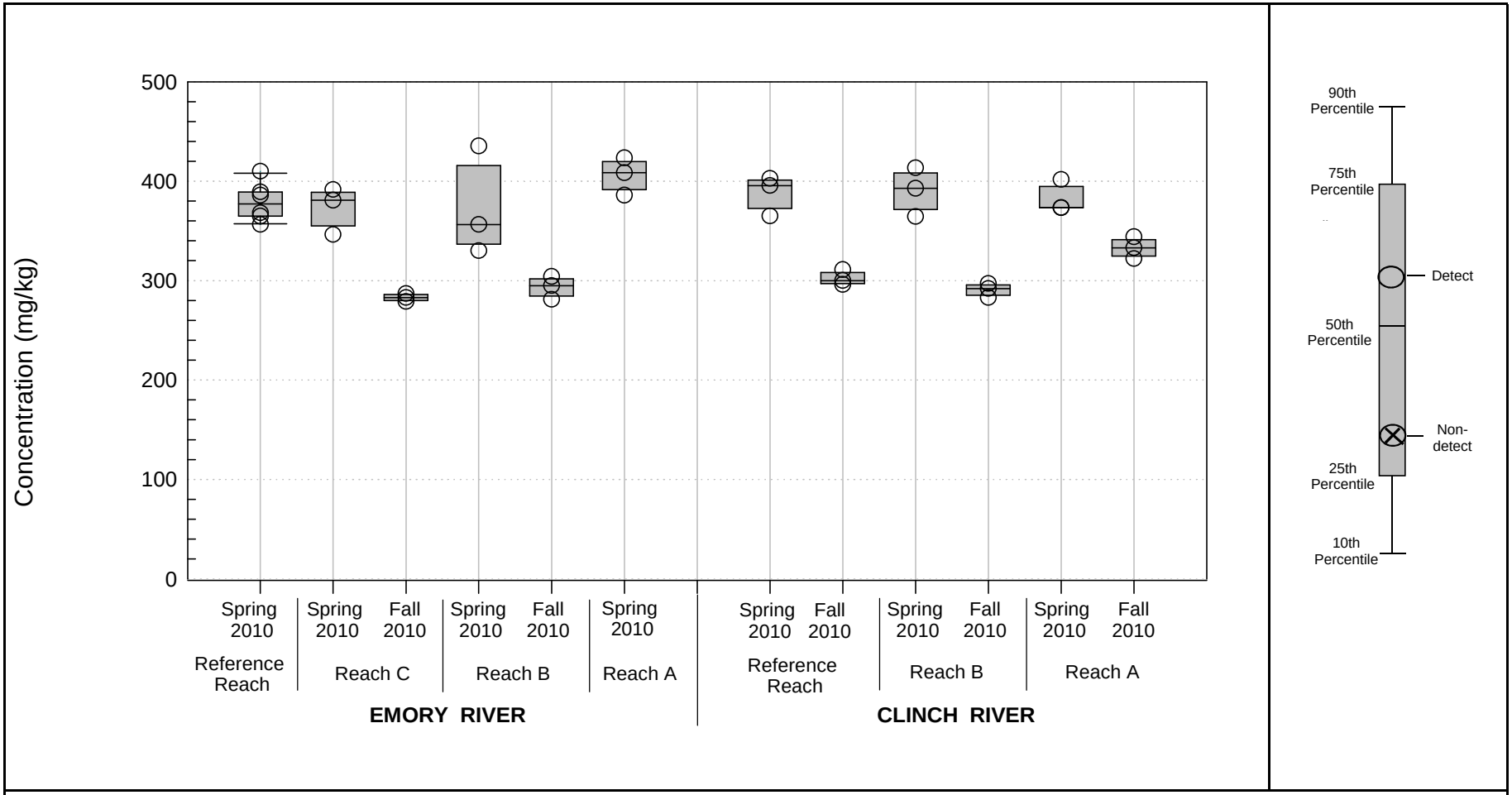
ARCADIS

Whole Body
Gizzard Shad - Iron
TVA Kingston



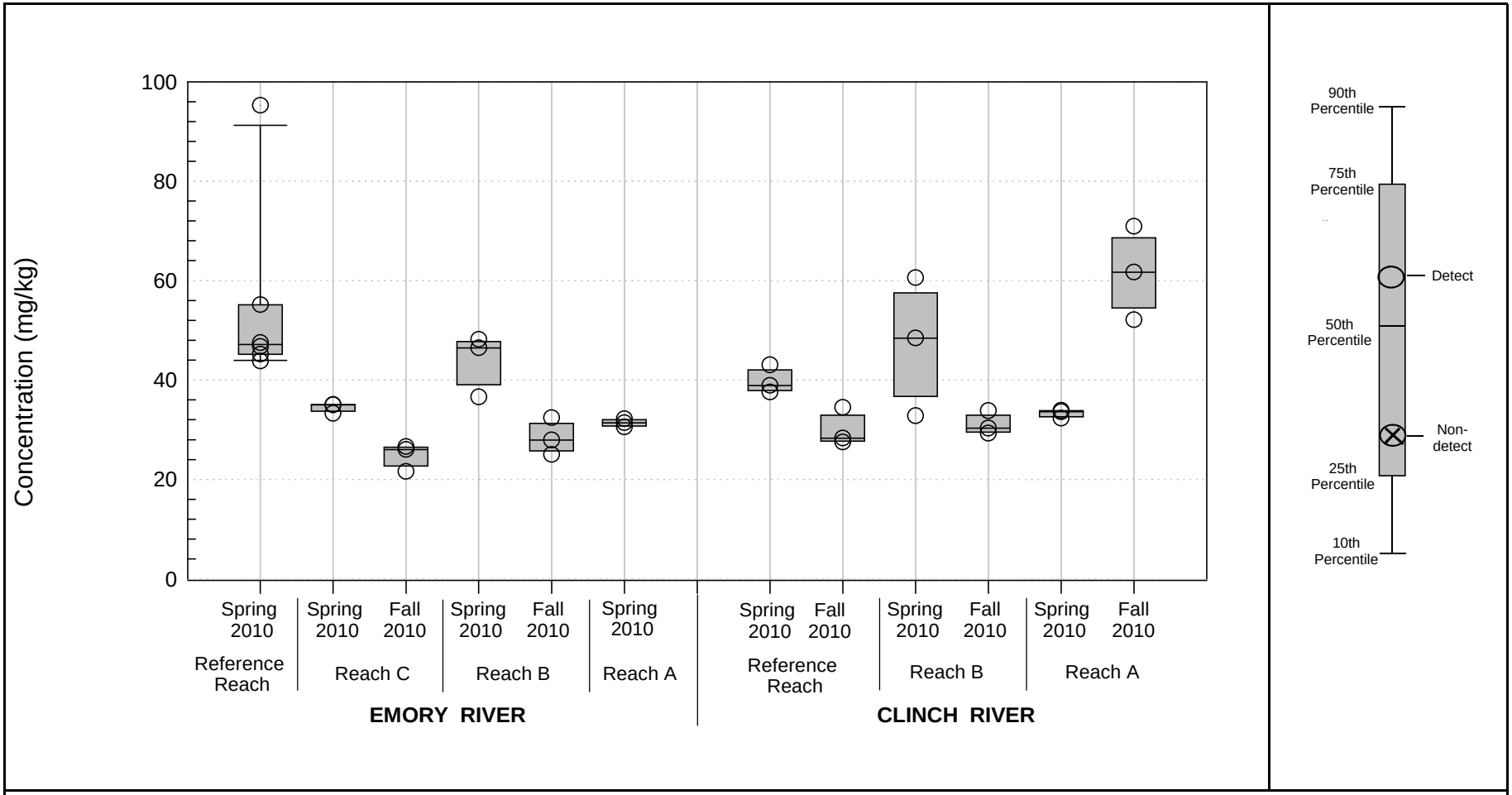
ARCADIS

Whole Body
Gizzard Shad - Lead
TVA Kingston



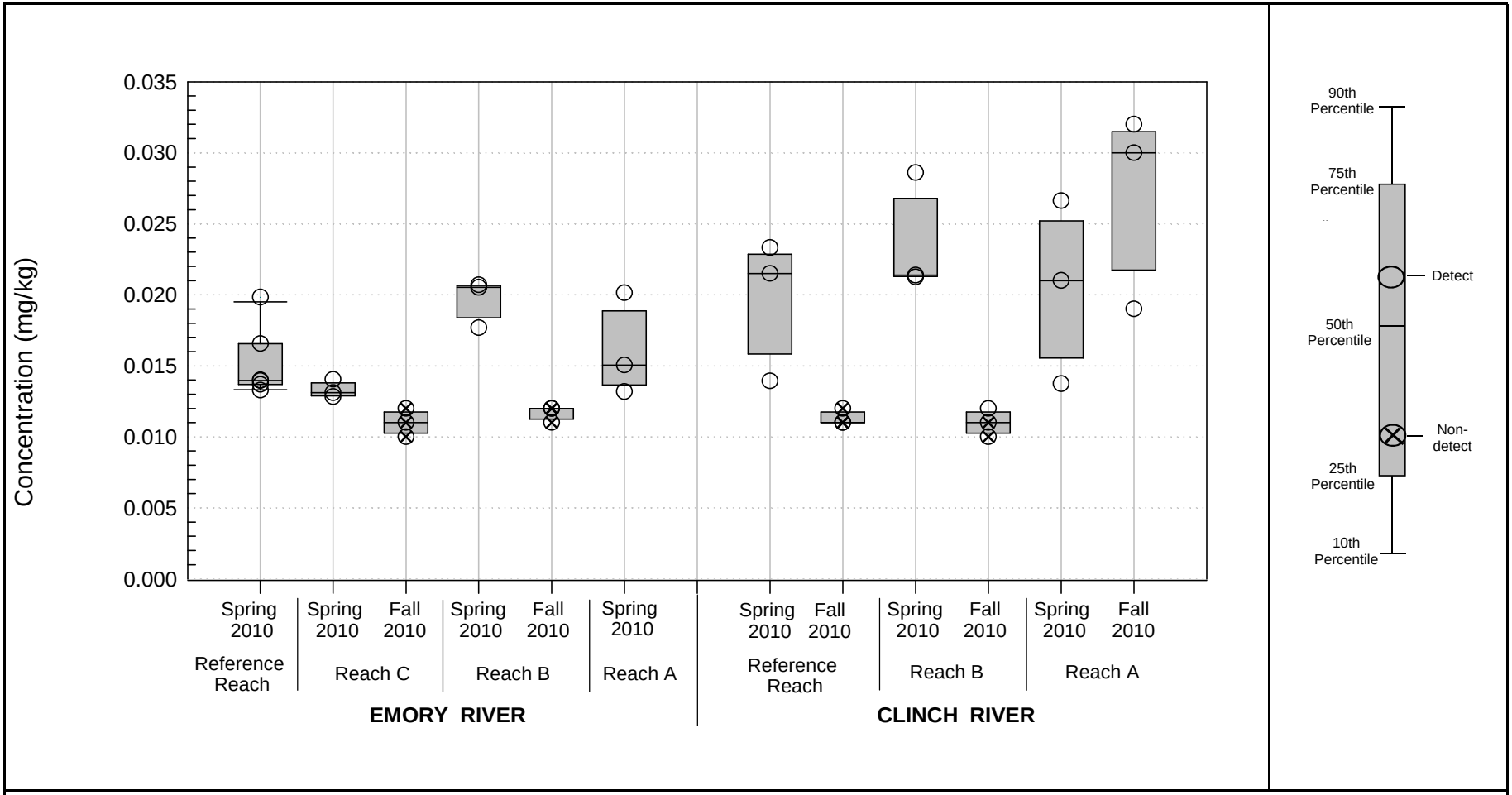
ARCADIS

Whole Body
Gizzard Shad - Magnesium
TVA Kingston



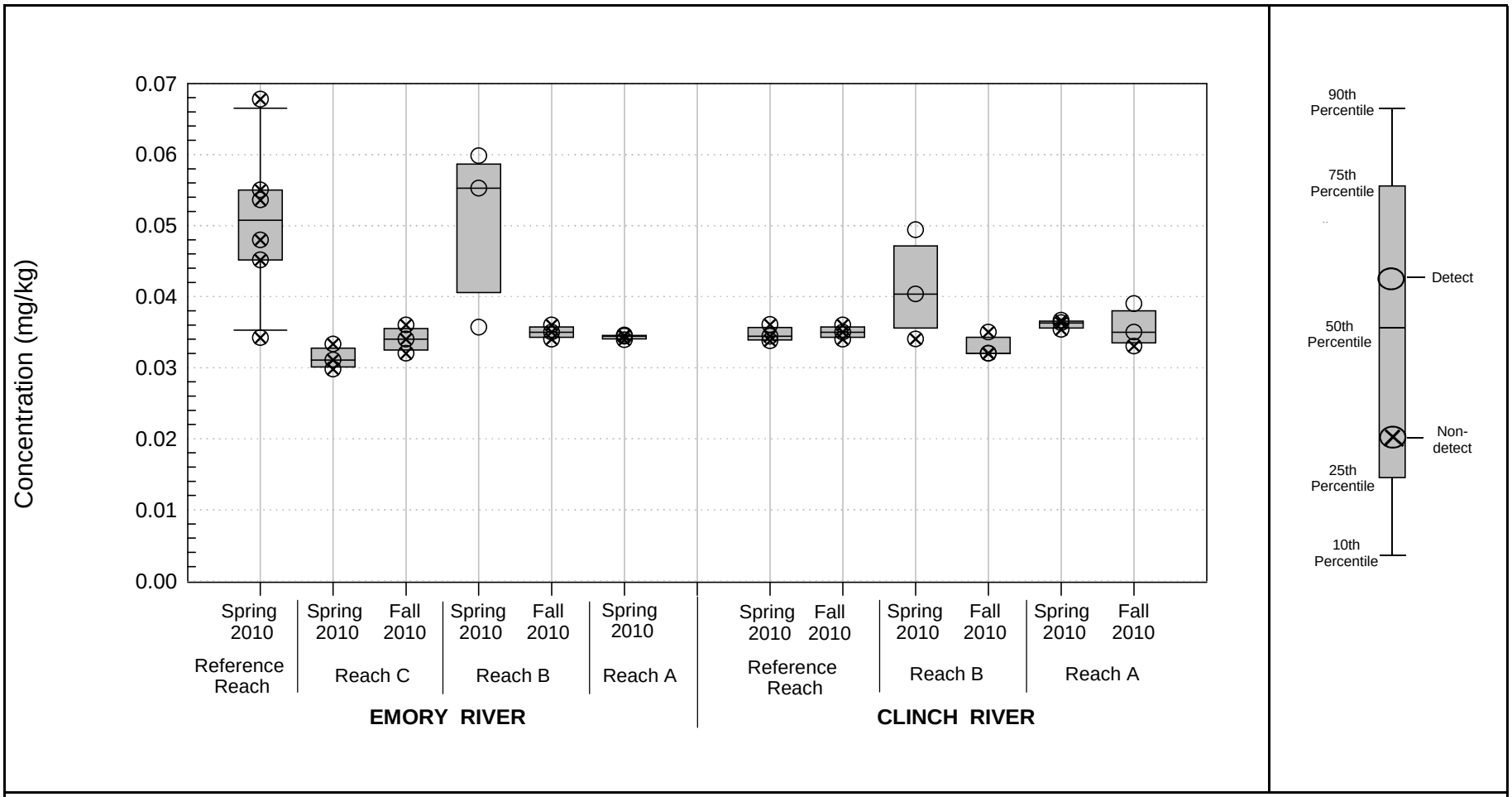
ARCADIS

Whole Body
Gizzard Shad - Manganese
TVA Kingston



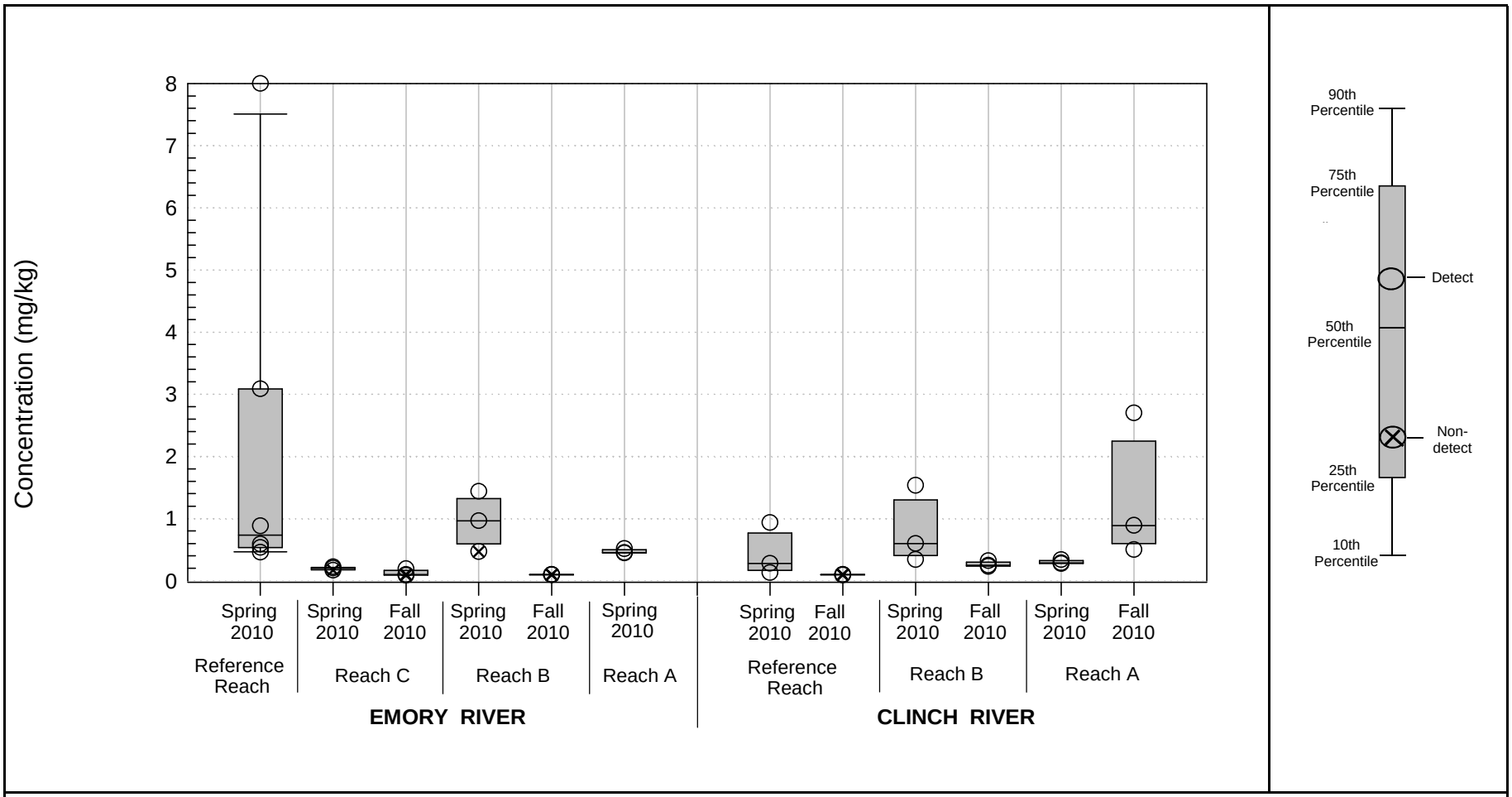
ARCADIS

Whole Body
Gizzard Shad - Mercury
TVA Kingston



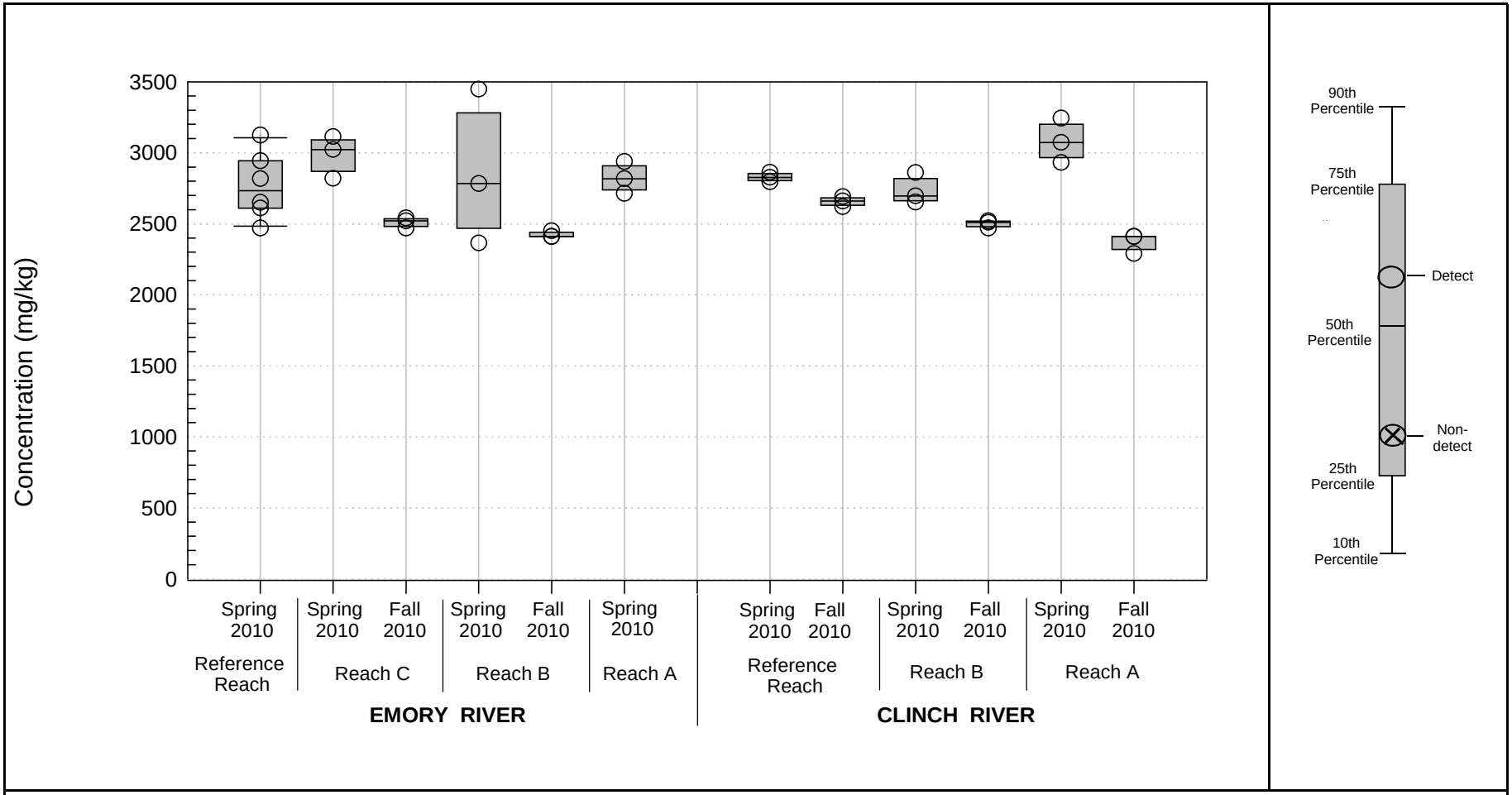
ARCADIS

Whole Body
Gizzard Shad - Molybdenum
TVA Kingston



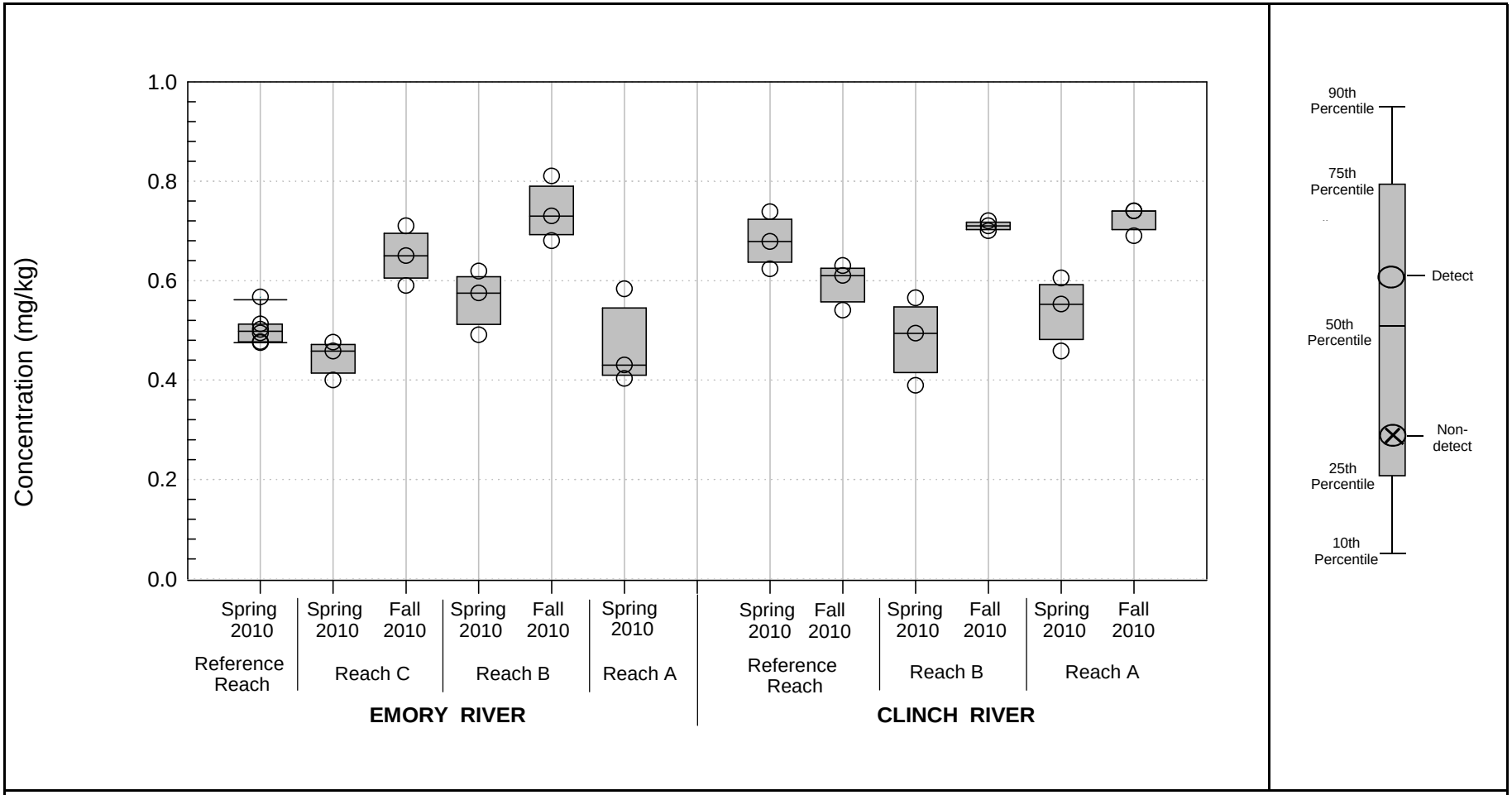
ARCADIS

Whole Body
Gizzard Shad - Nickel
TVA Kingston



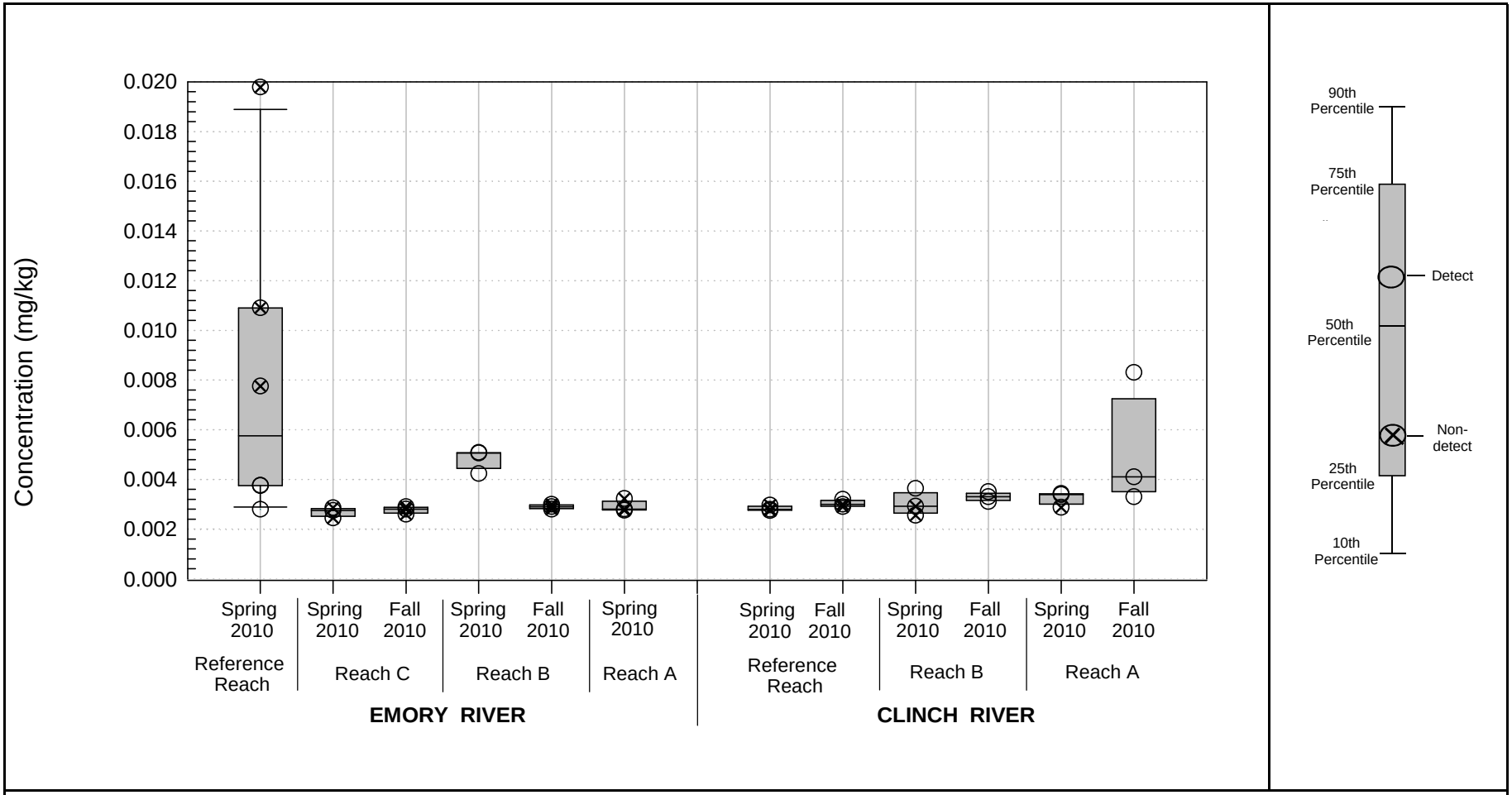
ARCADIS

Whole Body
Gizzard Shad - Potassium
TVA Kingston



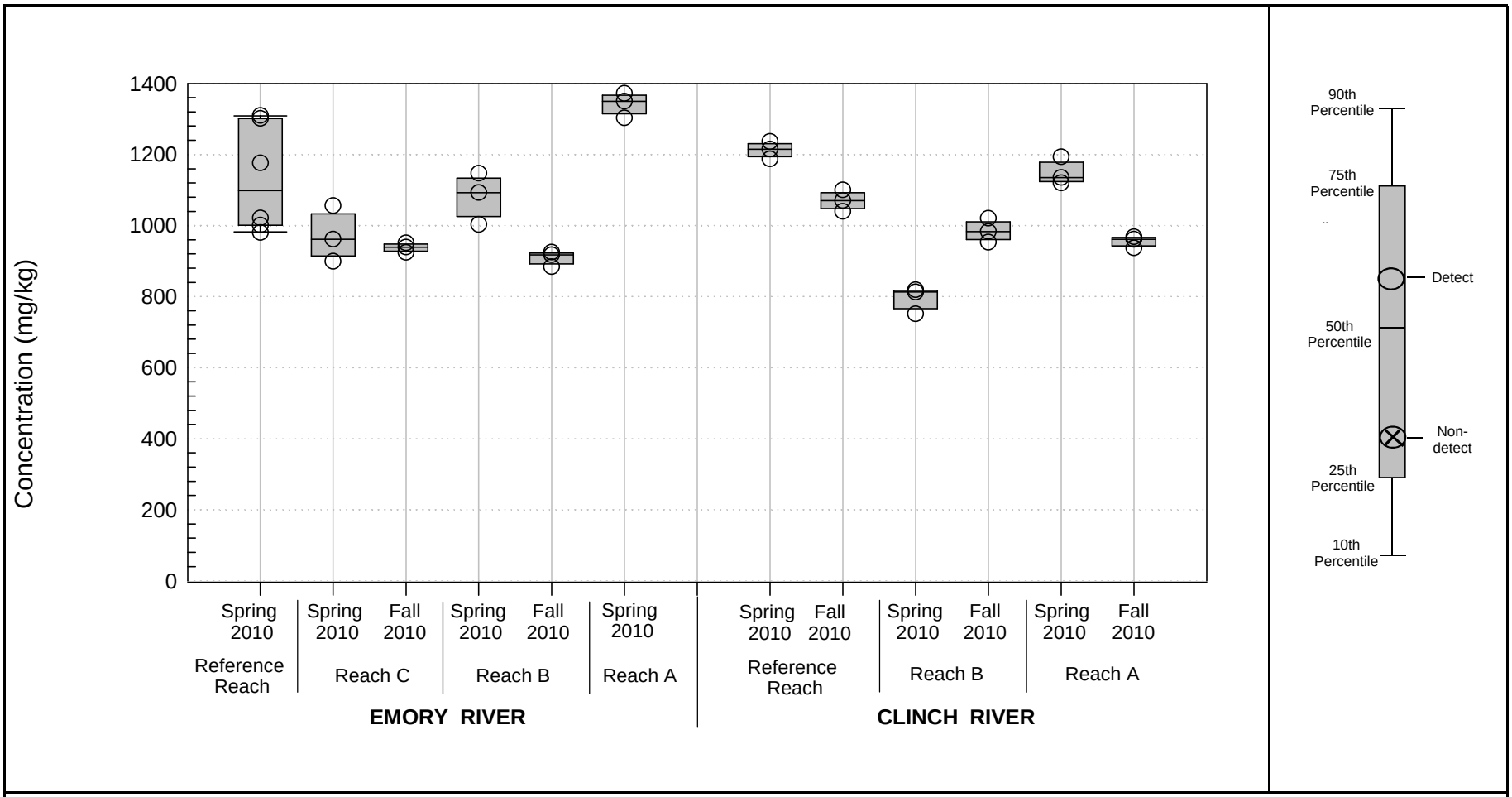
ARCADIS

Whole Body
Gizzard Shad - Selenium
TVA Kingston



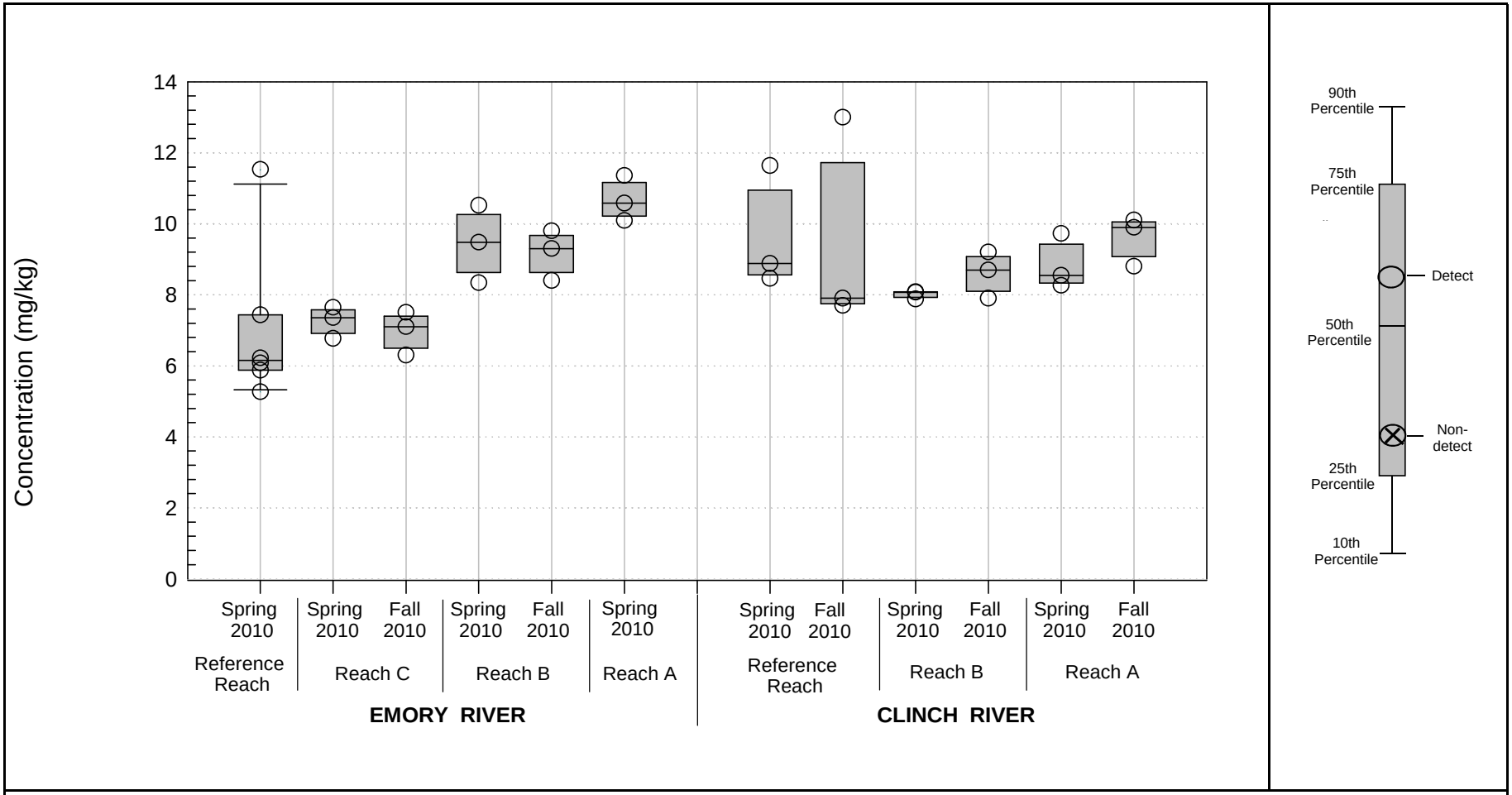
ARCADIS

Whole Body
Gizzard Shad - Silver
TVA Kingston



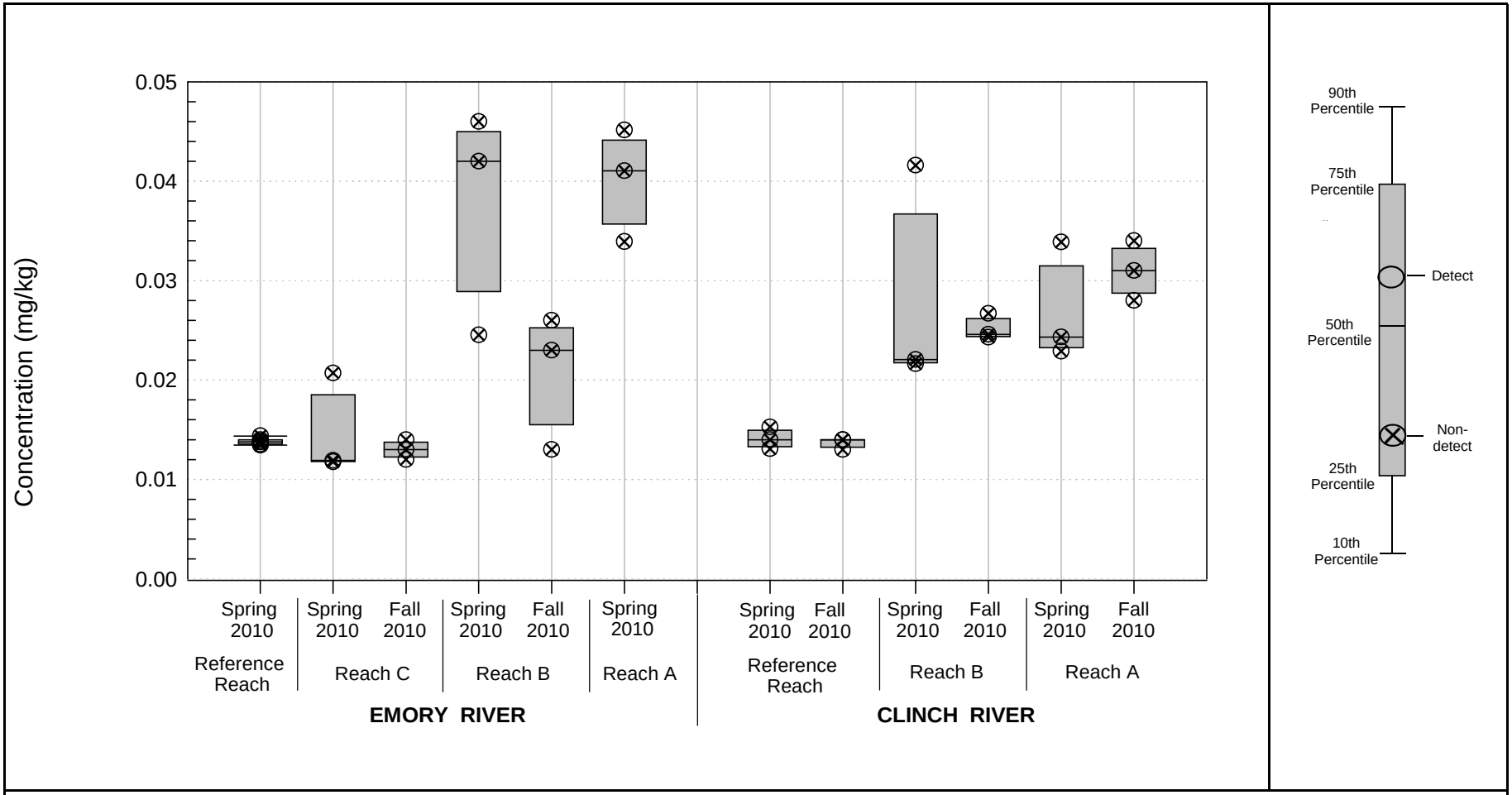
ARCADIS

Whole Body
Gizzard Shad - Sodium
TVA Kingston



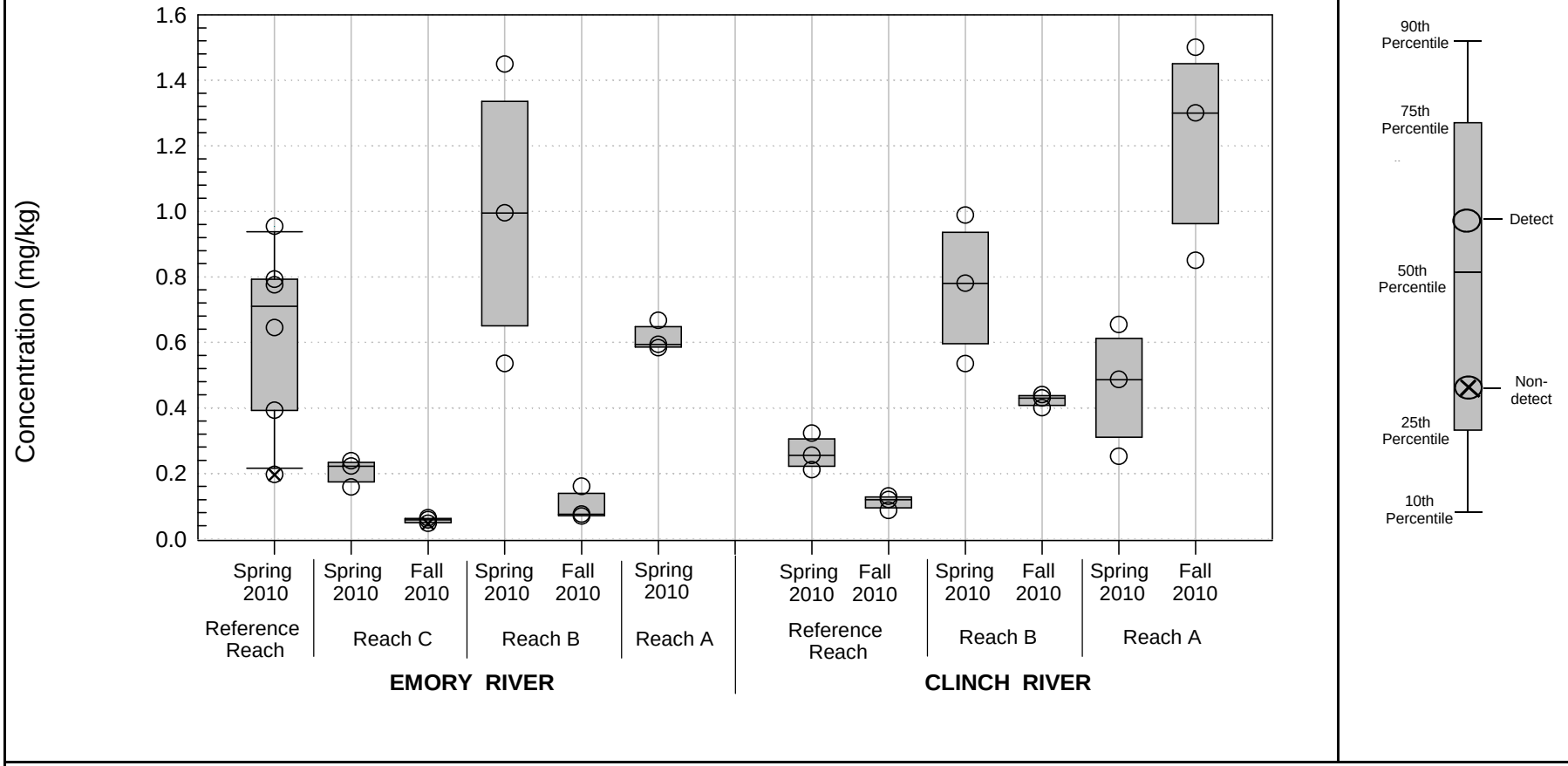
ARCADIS

Whole Body
Gizzard Shad - Strontium
TVA Kingston



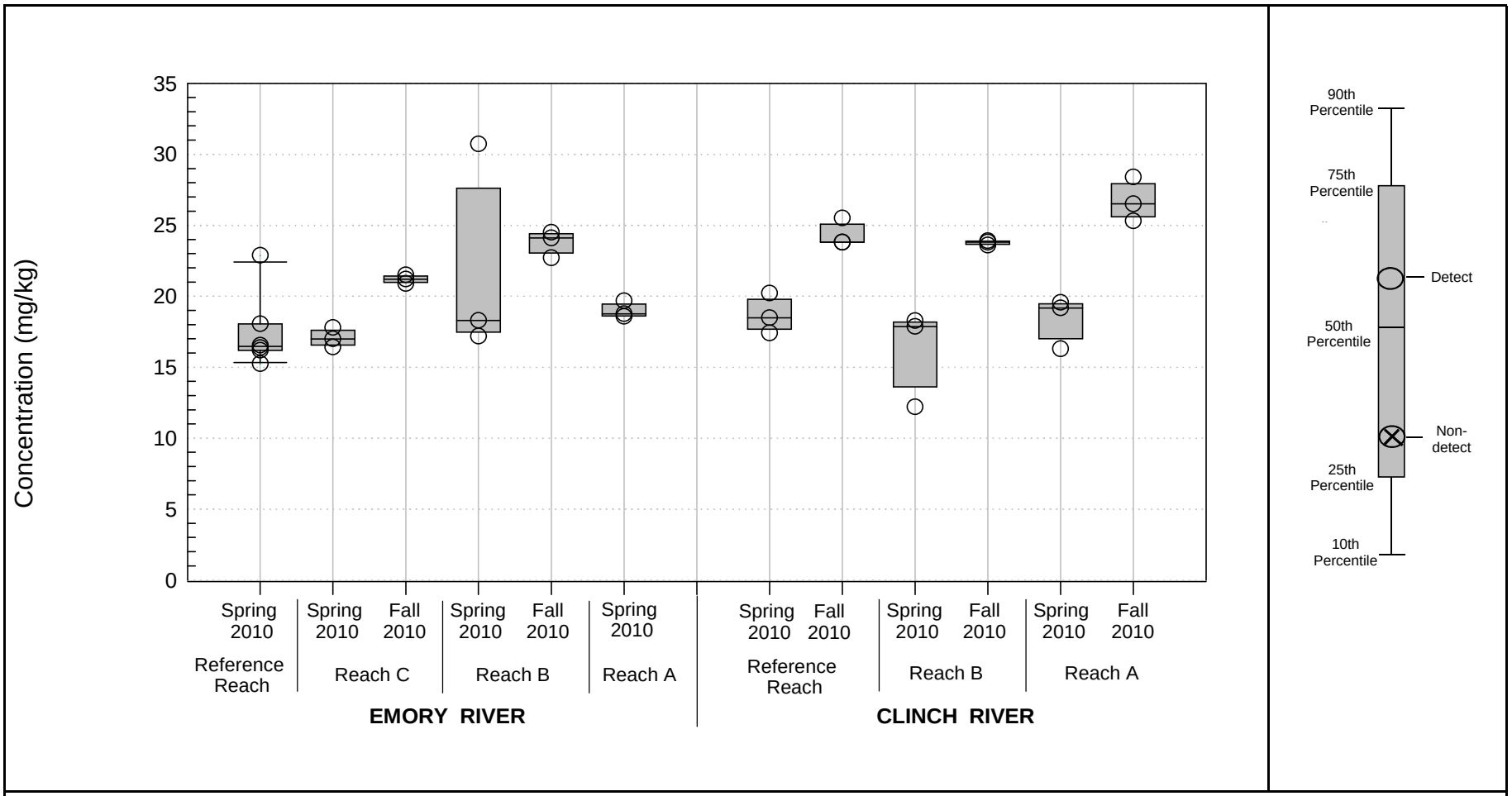
ARCADIS

Whole Body
Gizzard Shad - Thallium
TVA Kingston



ARCADIS

Whole Body
Gizzard Shad - Vanadium
TVA Kingston

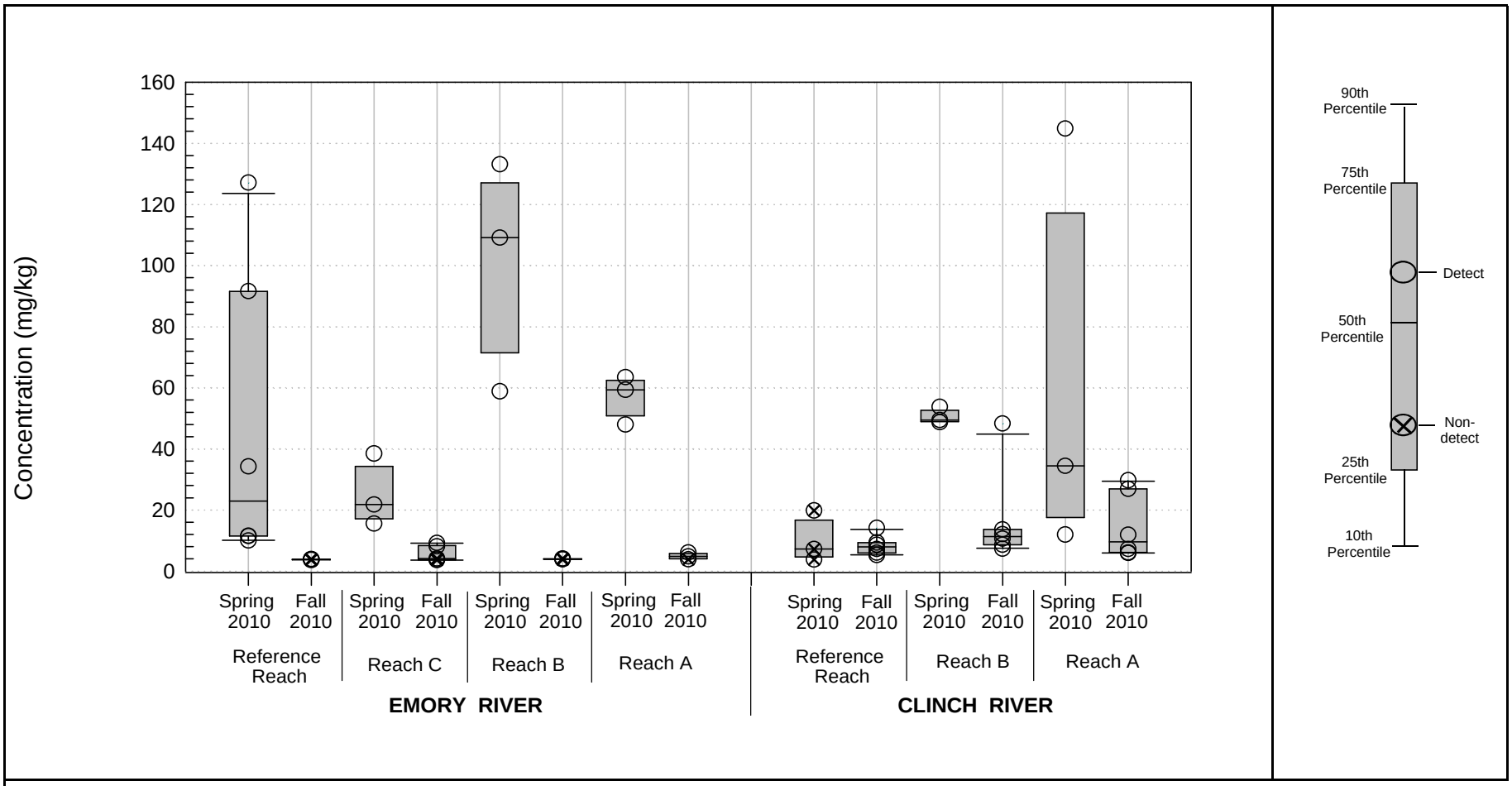


ARCADIS

Whole Body
Gizzard Shad - Zinc
TVA Kingston

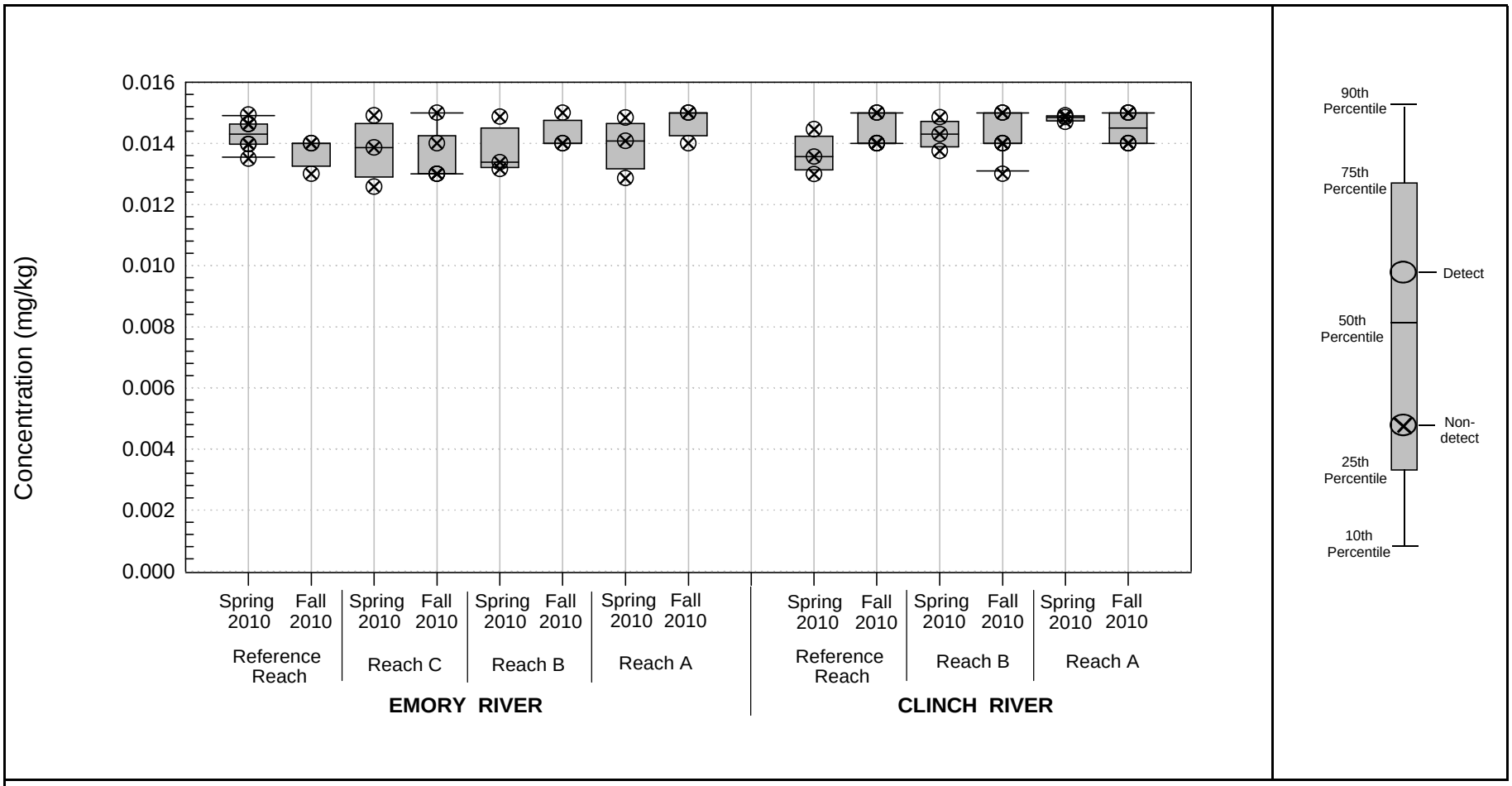
Appendix G

Box Plots Presenting Whole Body Without the Gut or Gut Content Tissue Concentrations of Analytes in Gizzard Shad



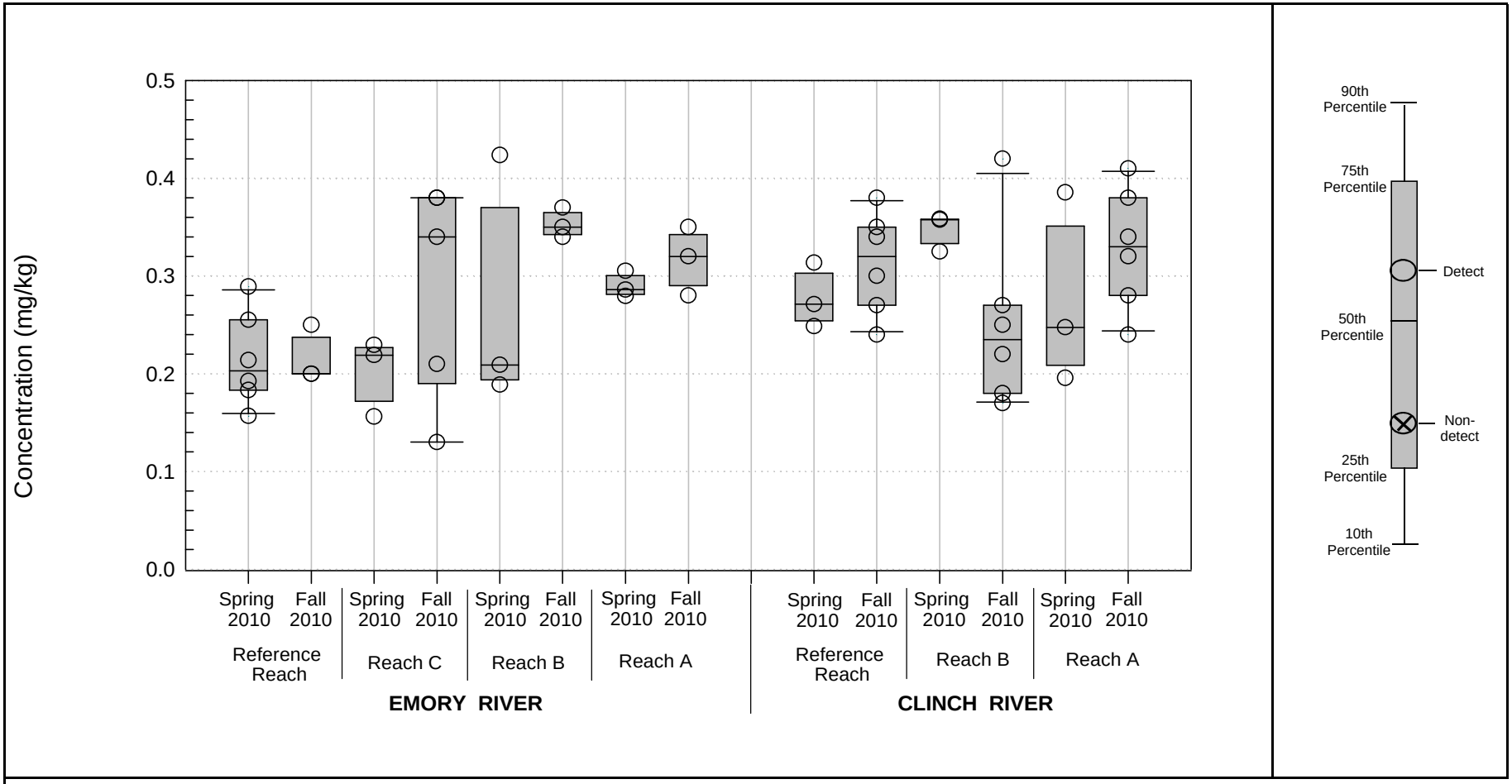
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Aluminum
TVA Kingston



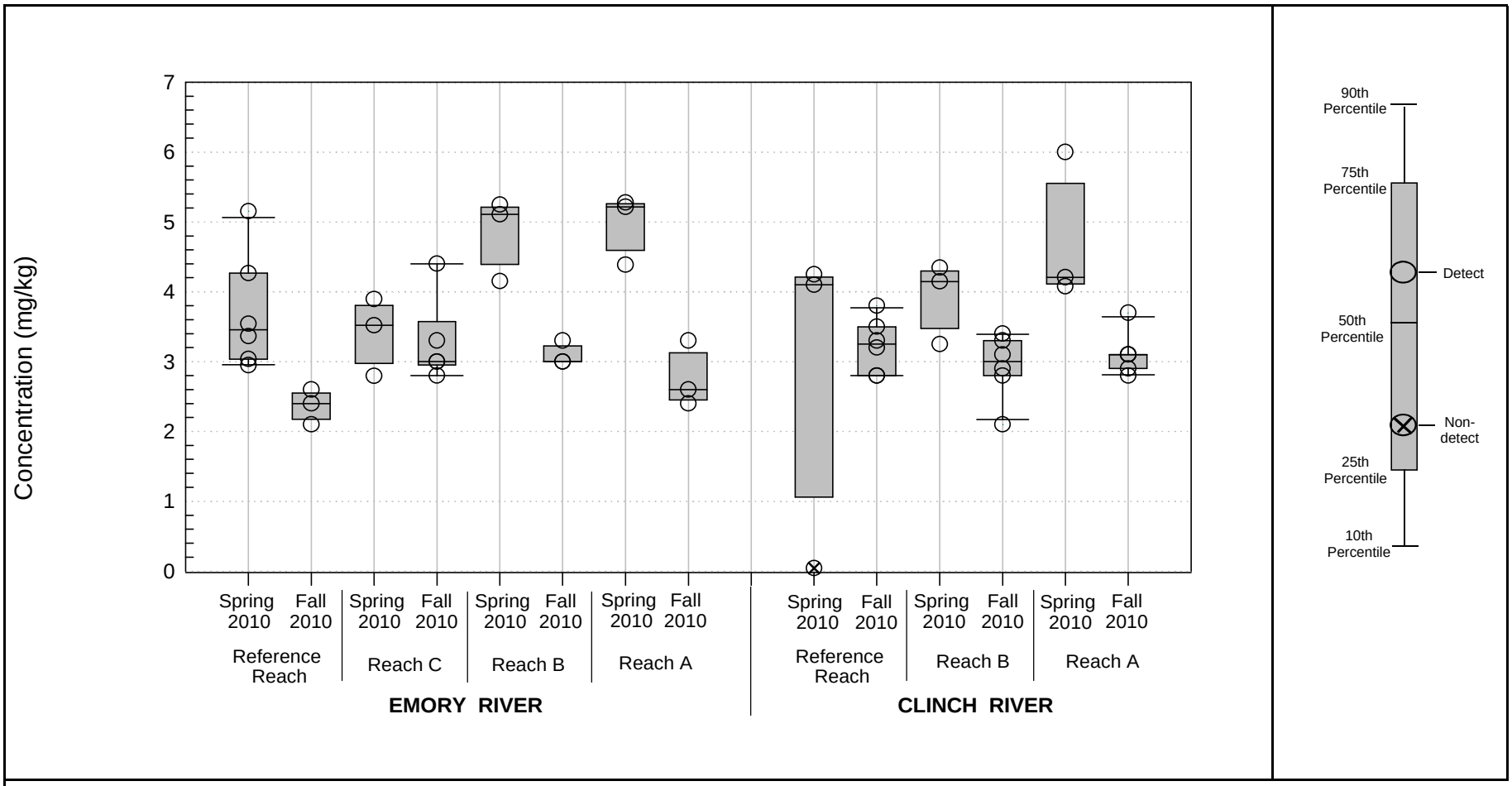
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Antimony
TVA Kingston



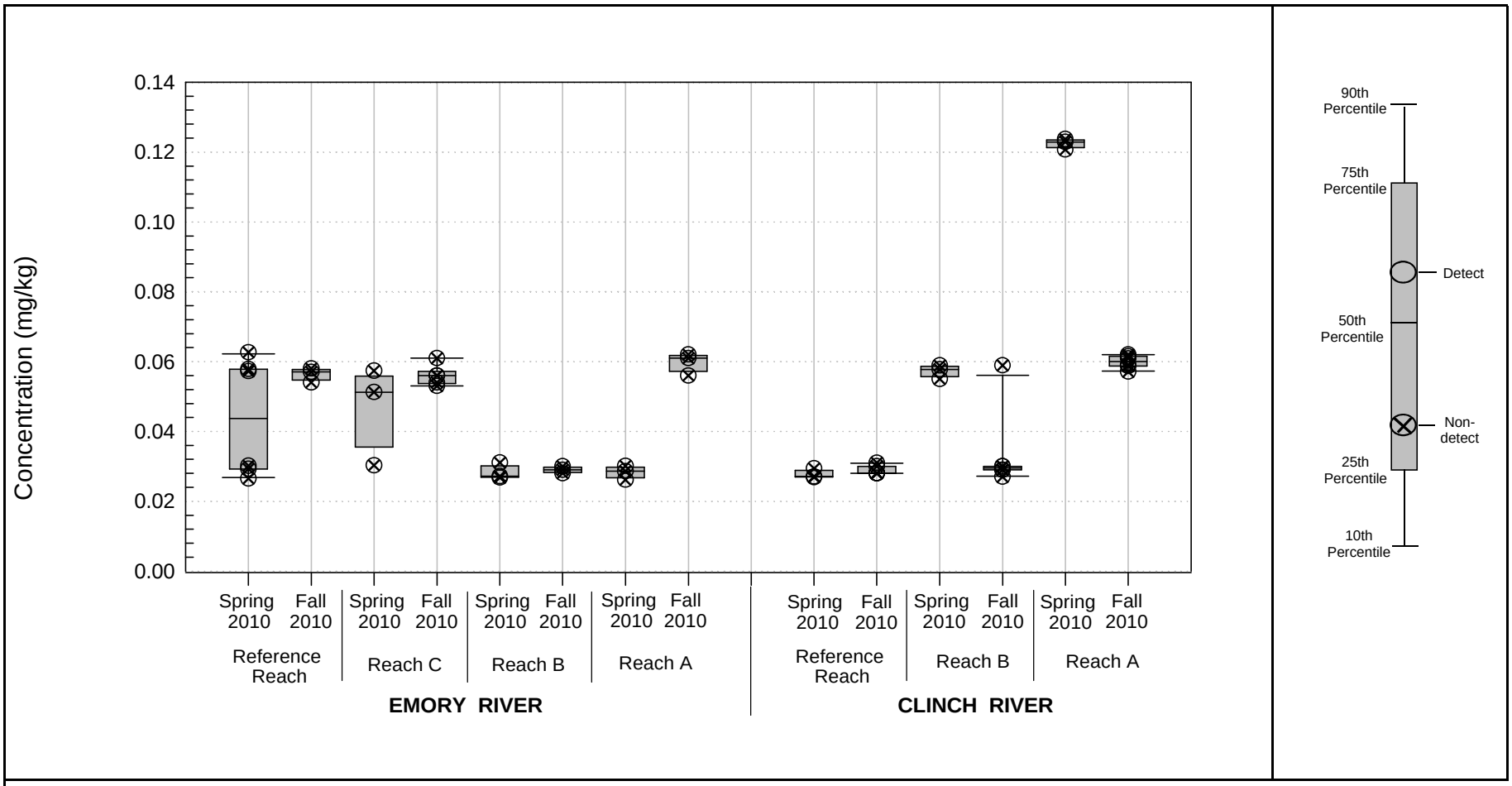
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Arsenic
TVA Kingston



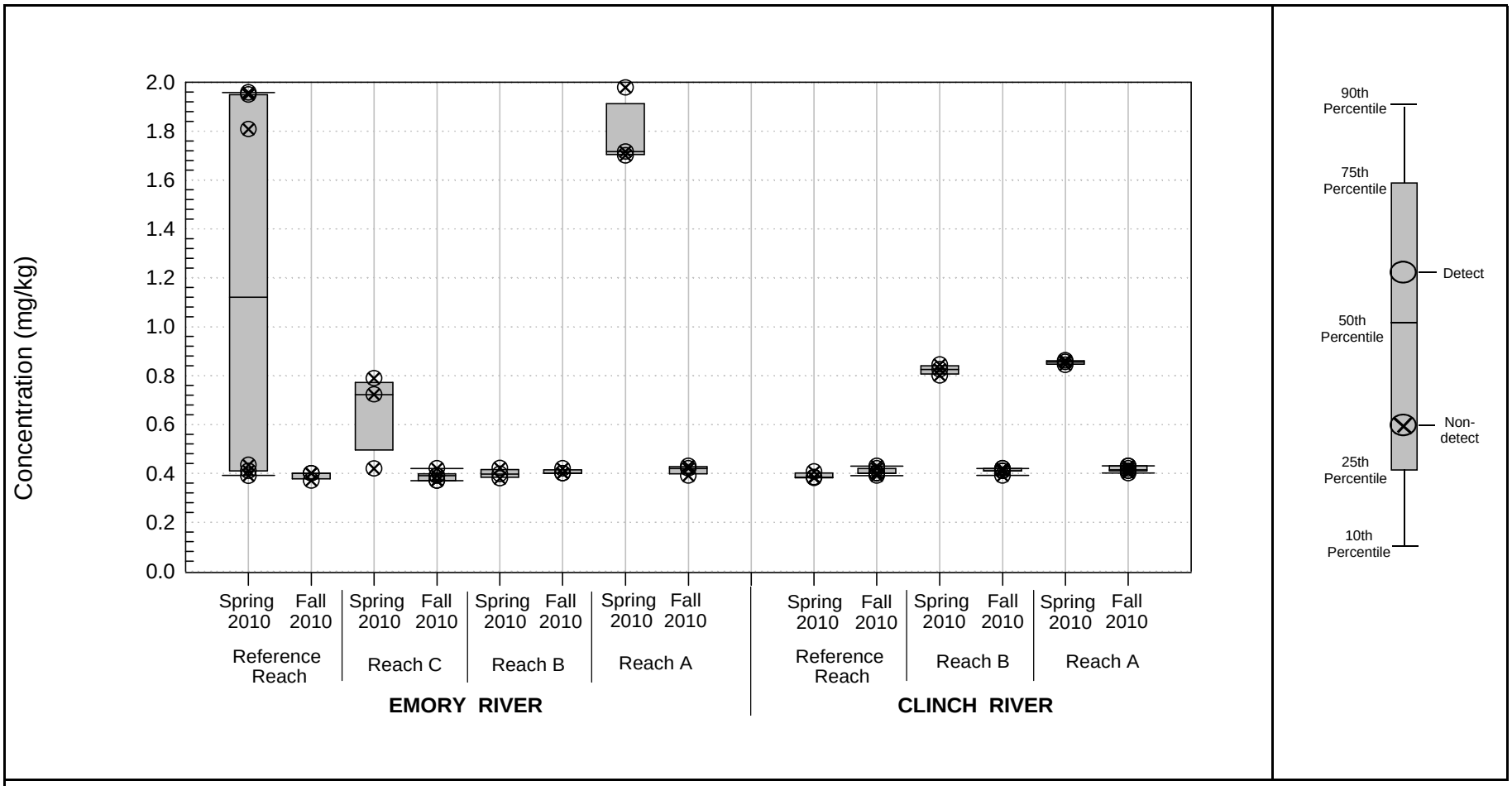
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Barium
TVA Kingston



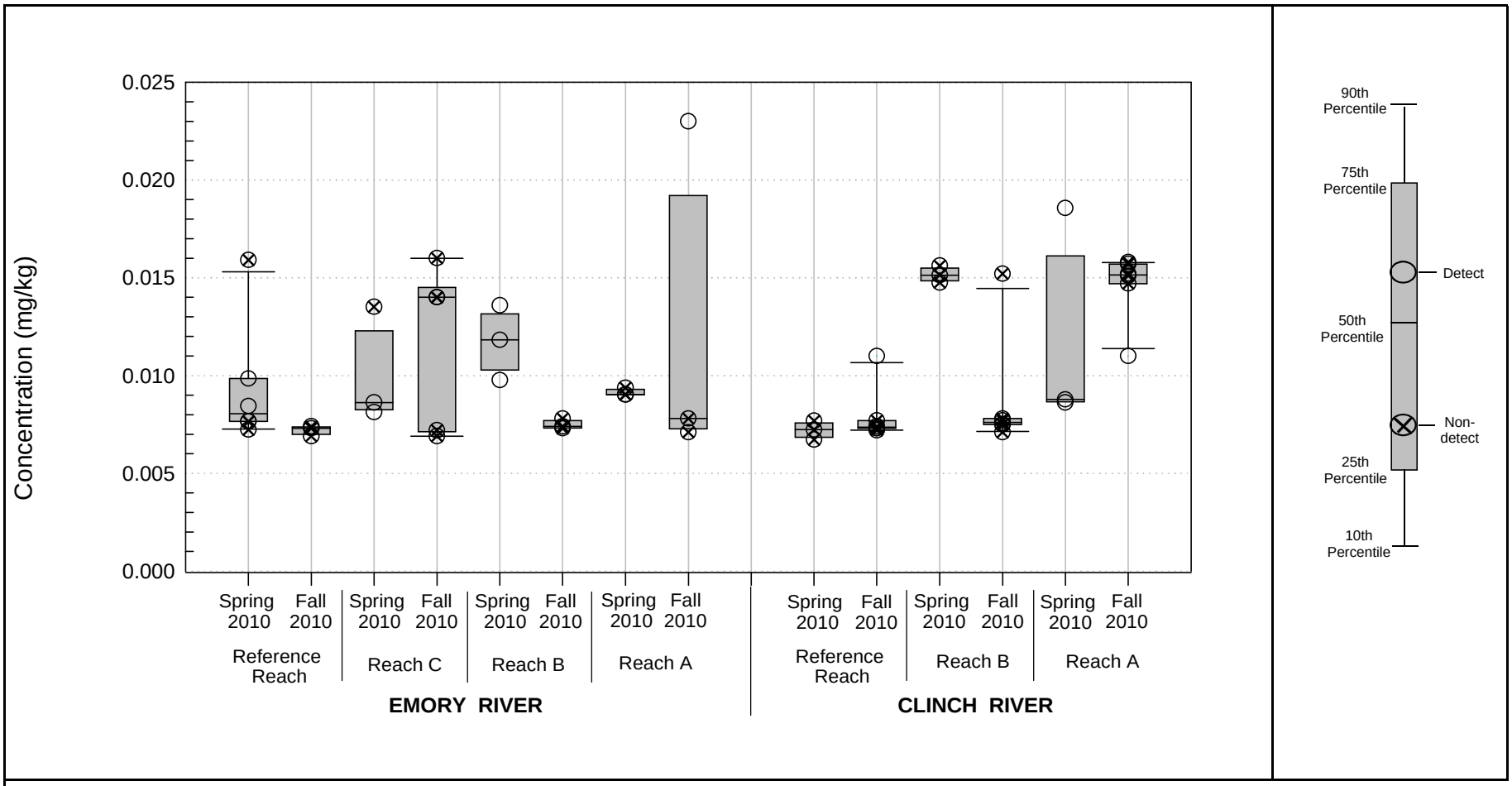
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Beryllium
TVA Kingston



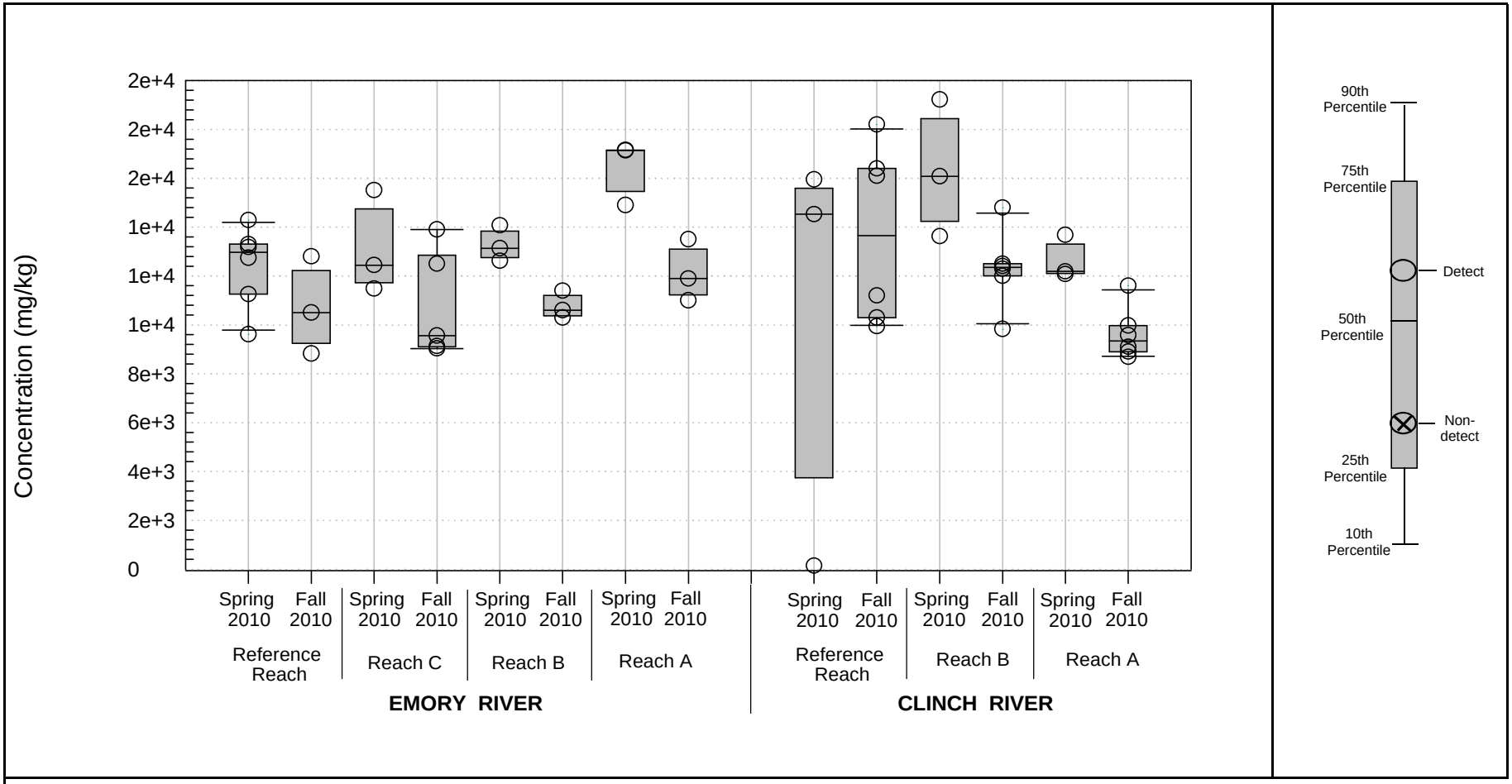
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Boron
TVA Kingston



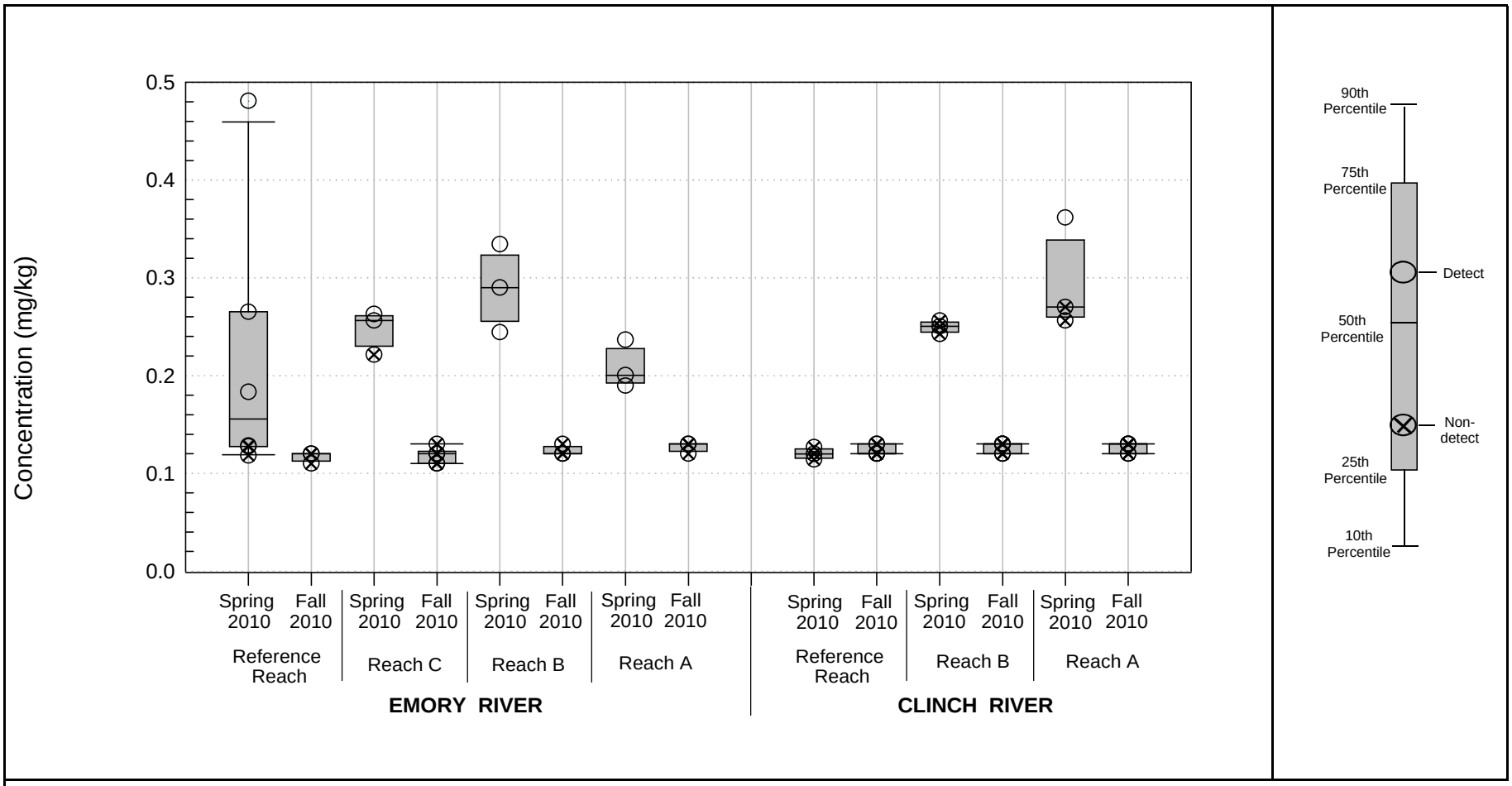
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Cadmium
TVA Kingston



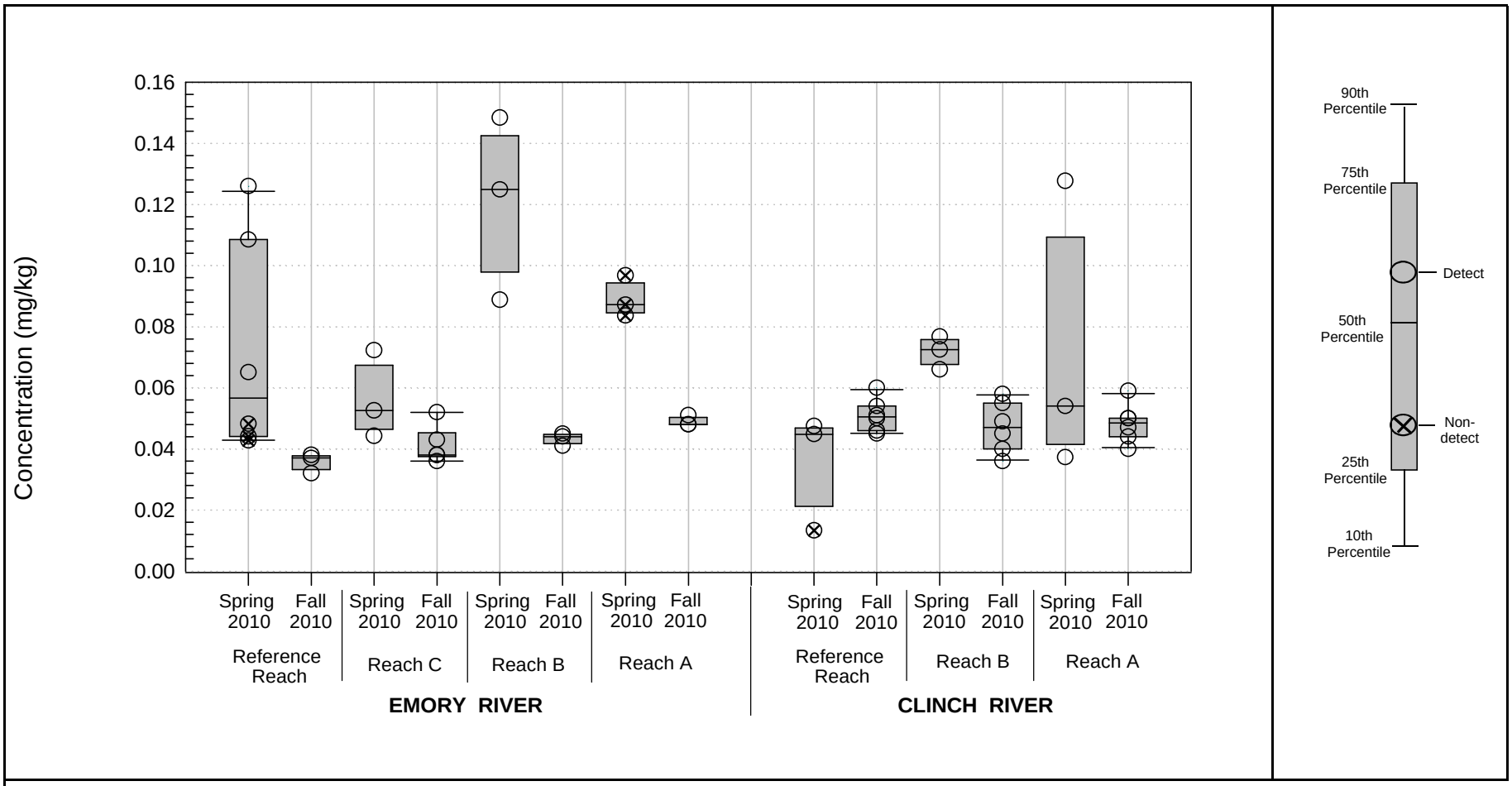
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Calcium
TVA Kingston



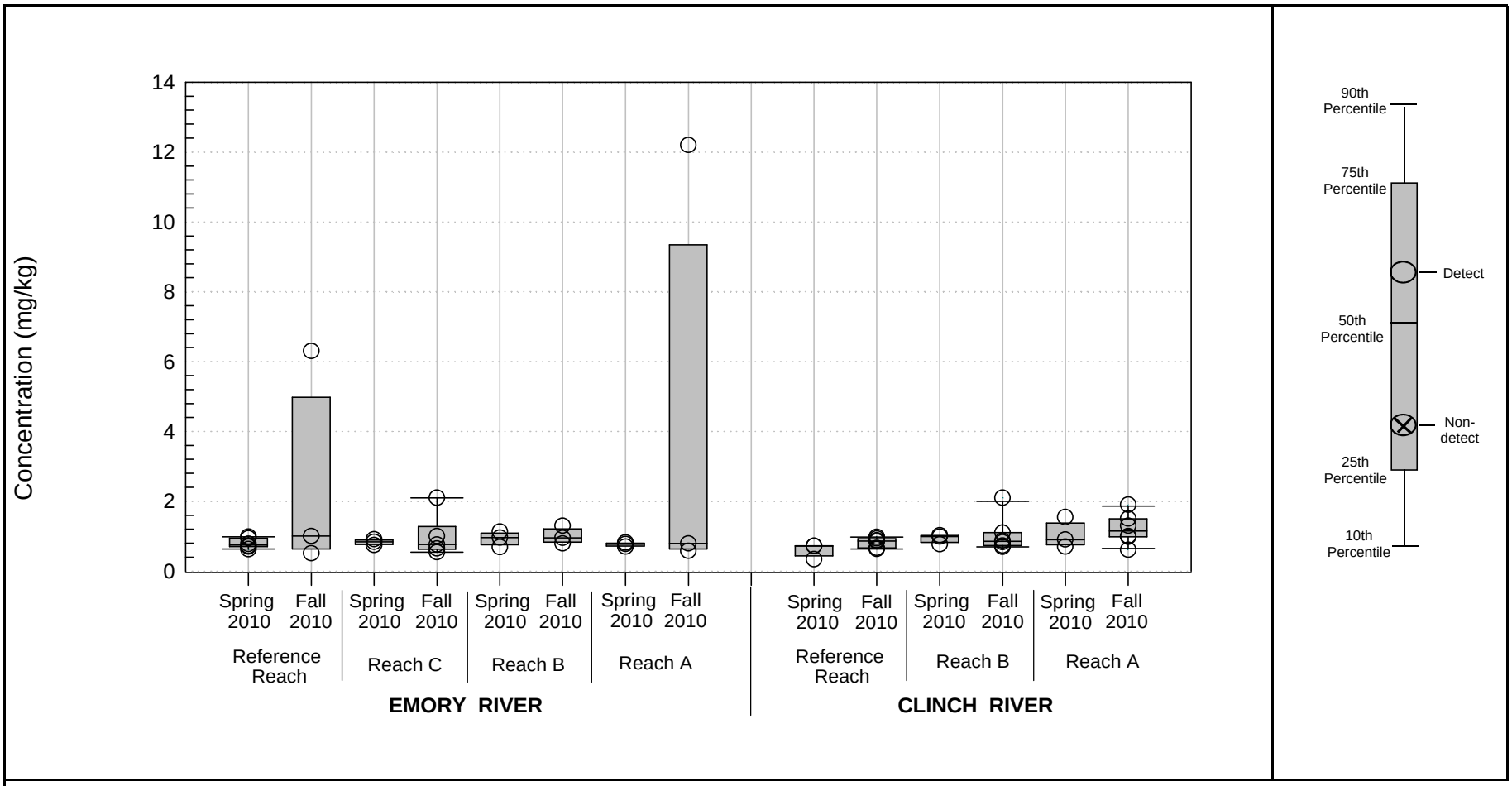
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Chromium
TVA Kingston



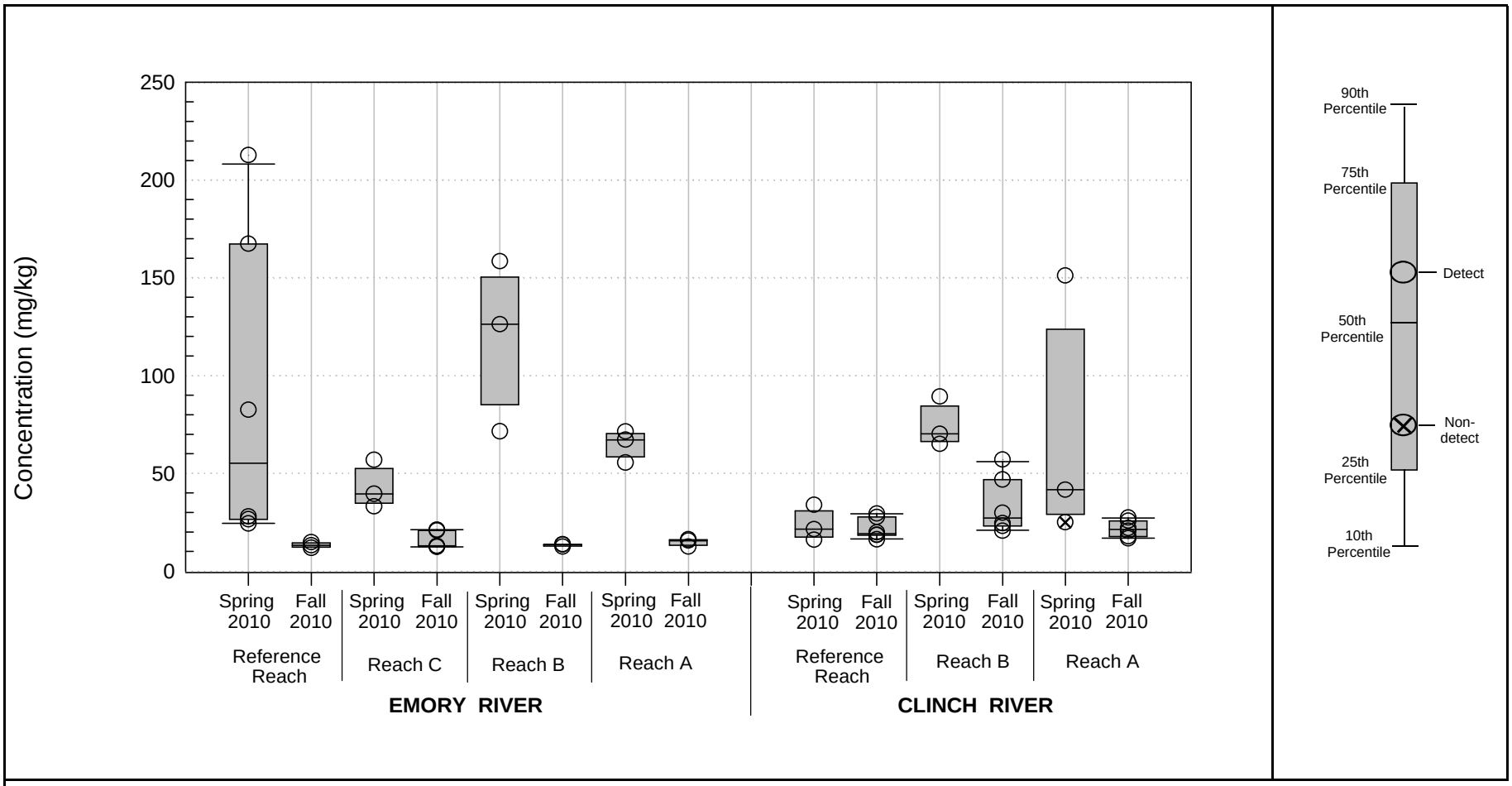
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Cobalt
TVA Kingston



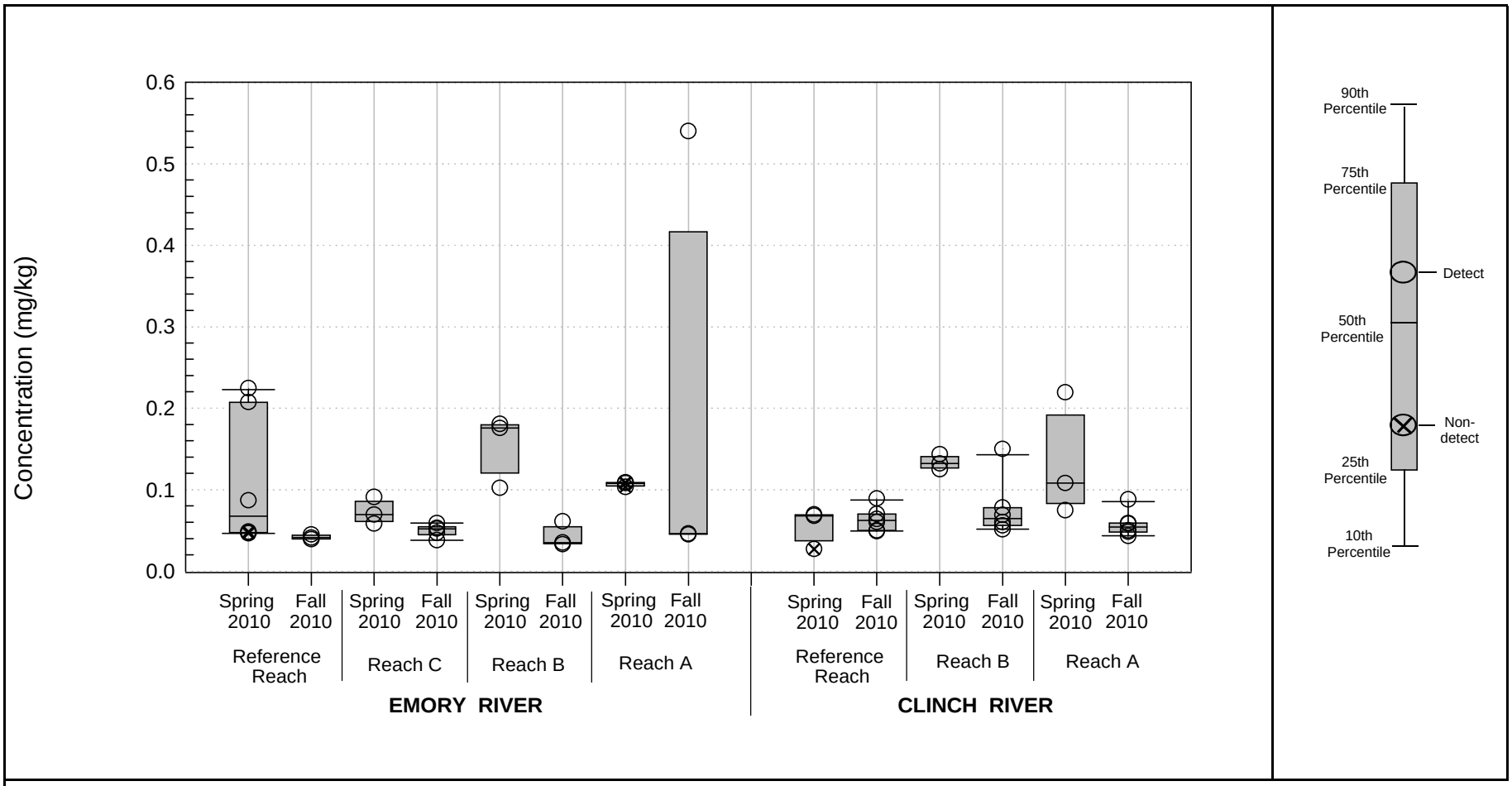
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Copper
TVA Kingston



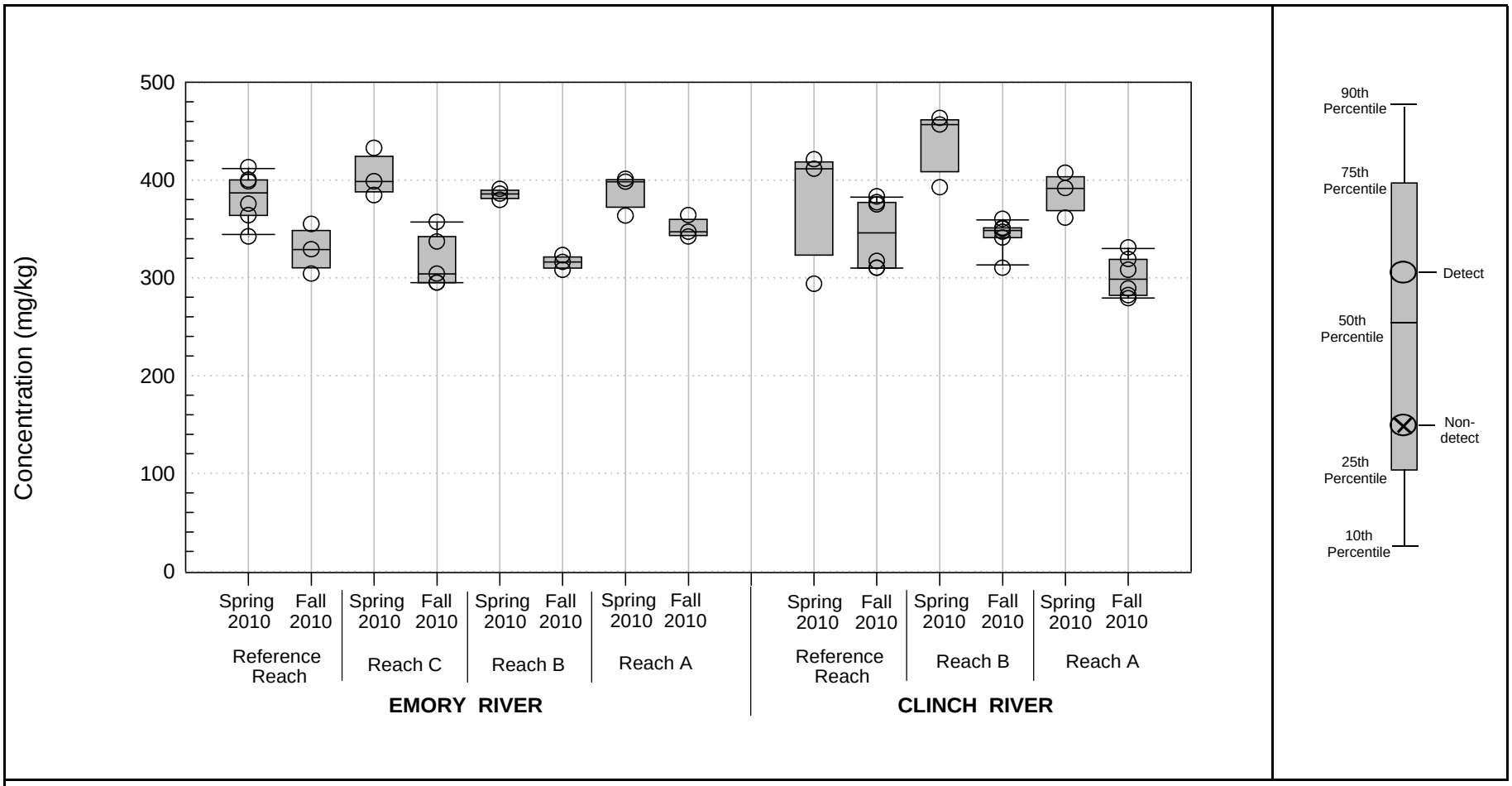
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Iron
TVA Kingston



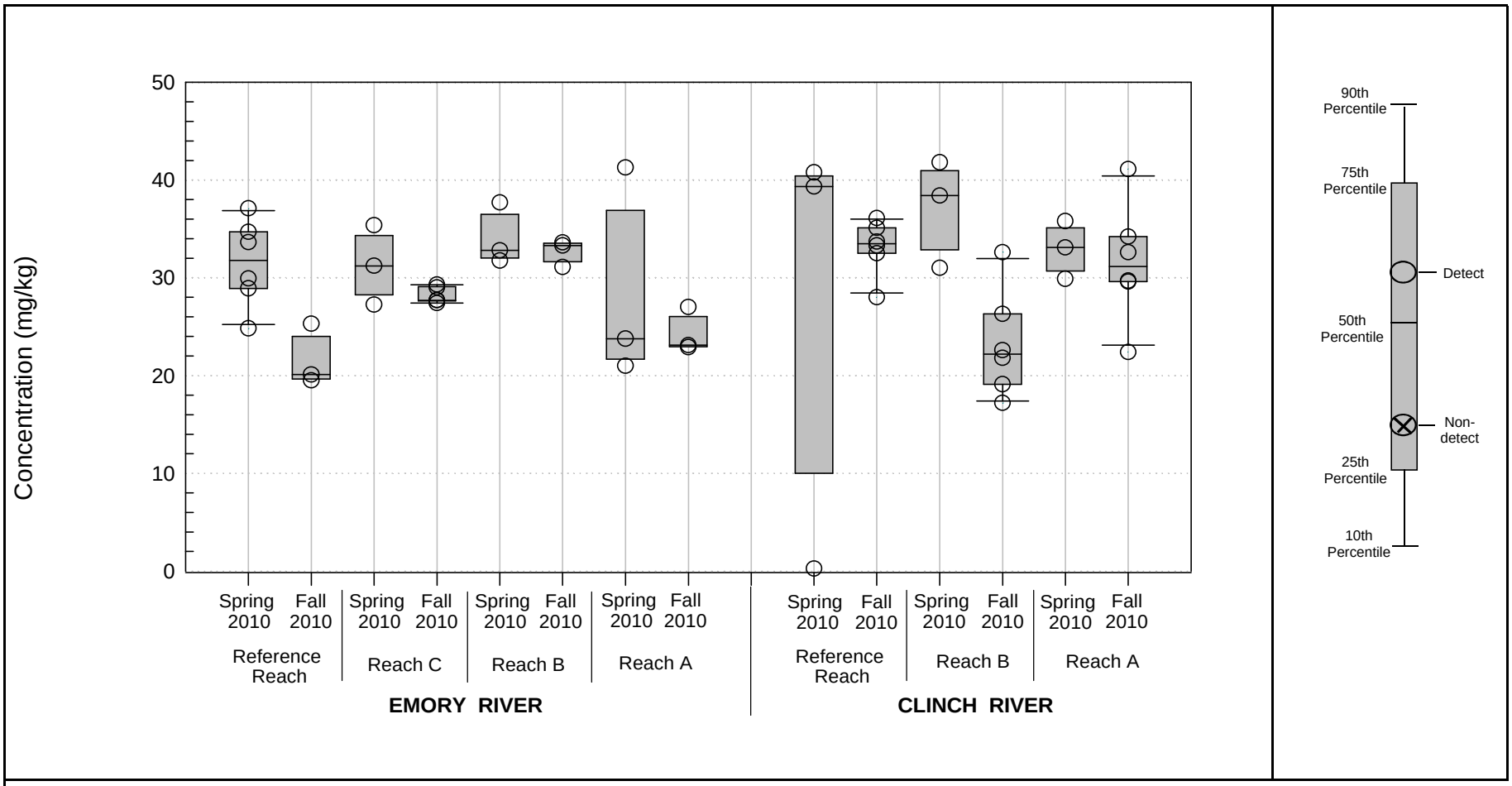
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Lead
TVA Kingston



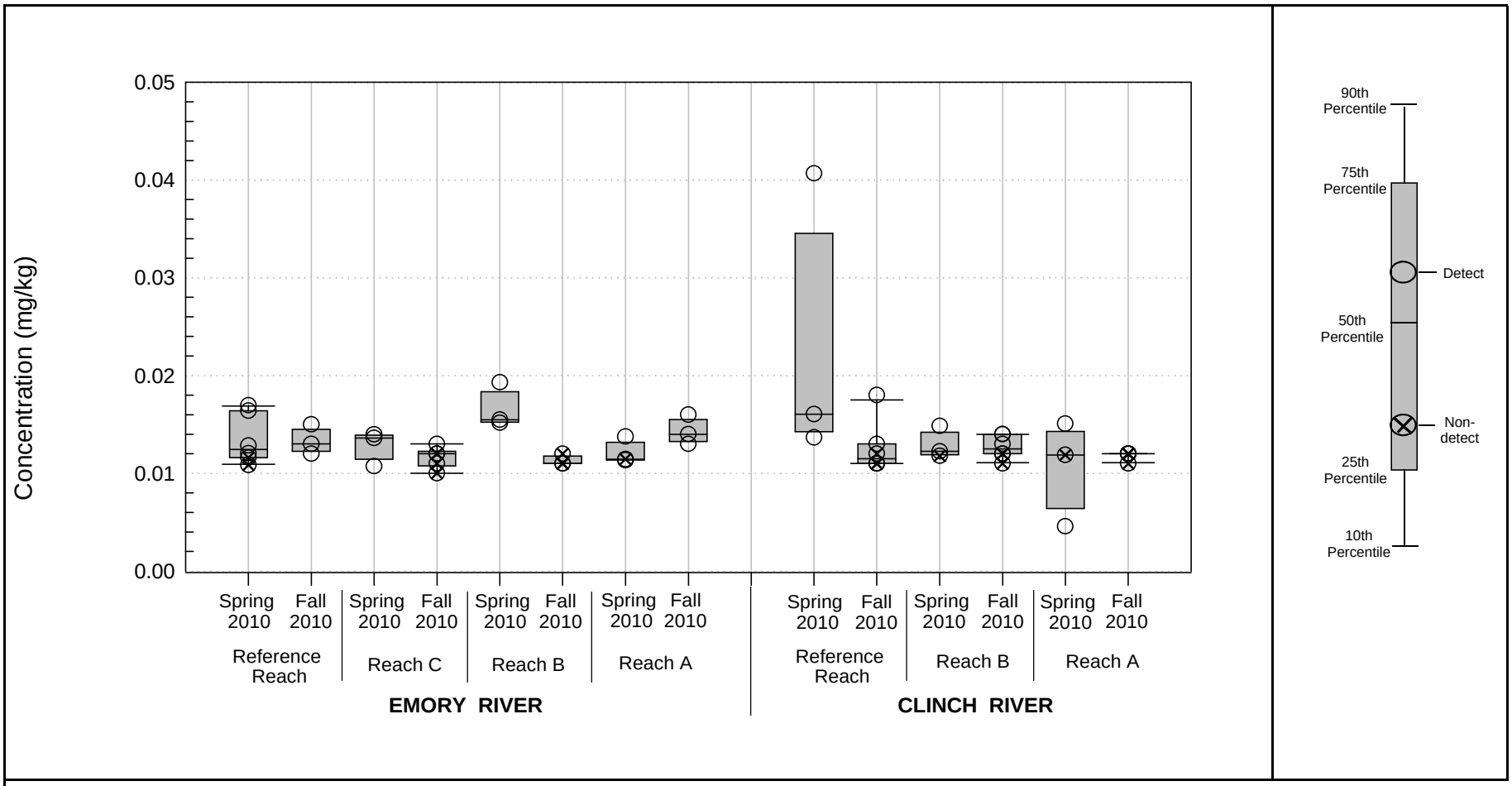
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Magnesium
TVA Kingston



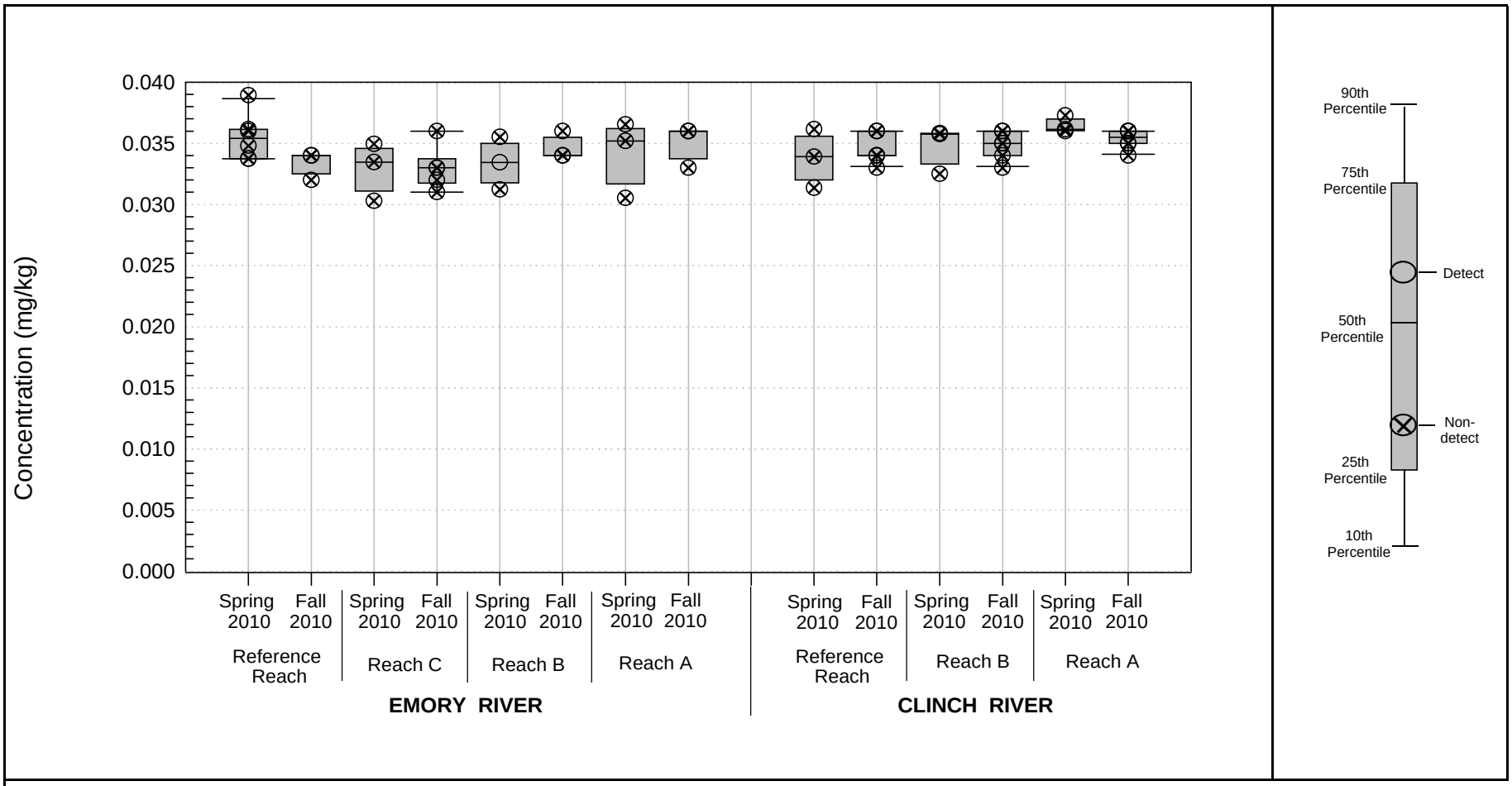
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Manganese
TVA Kingston



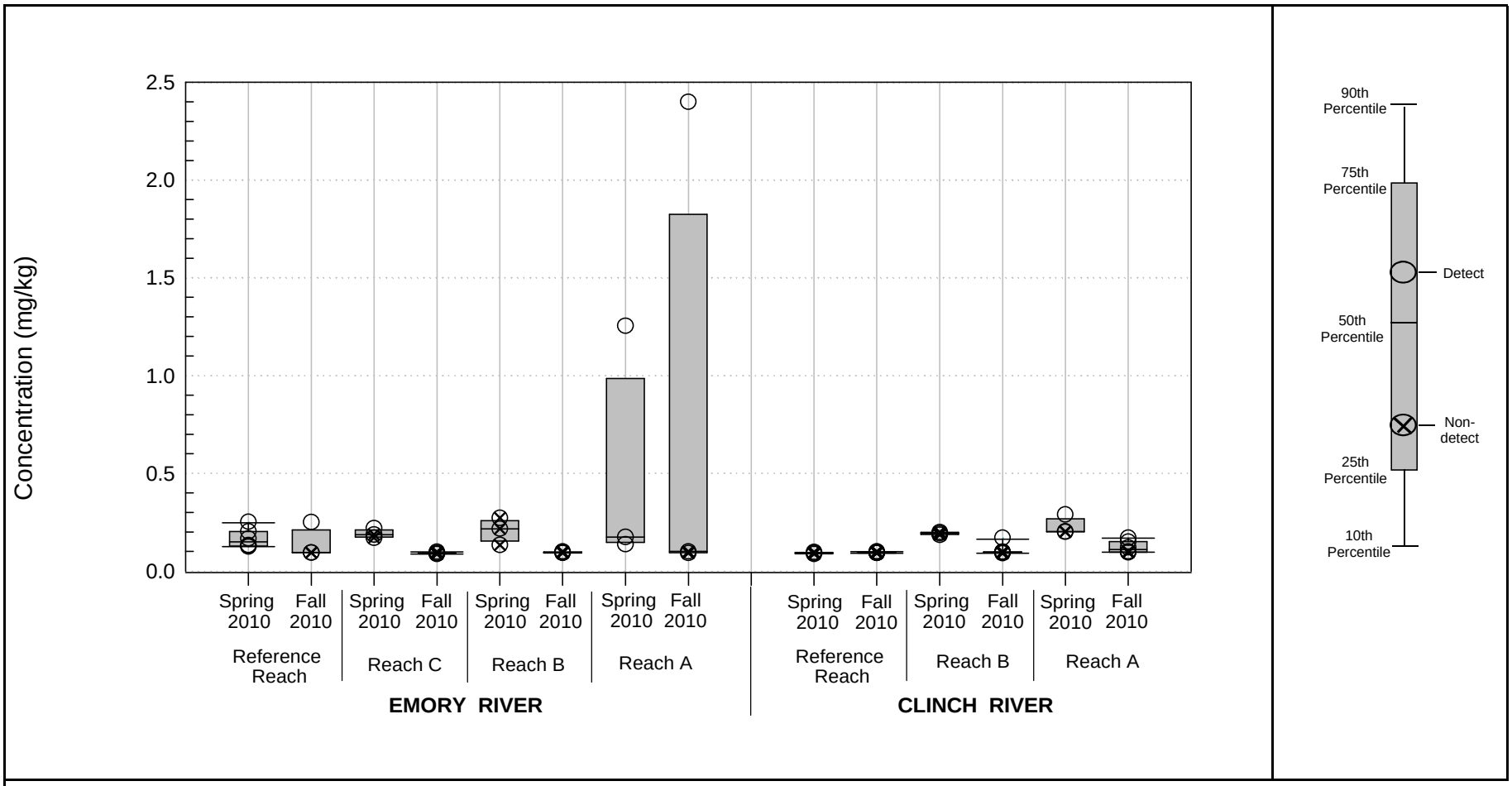
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Mercury
TVA Kingston



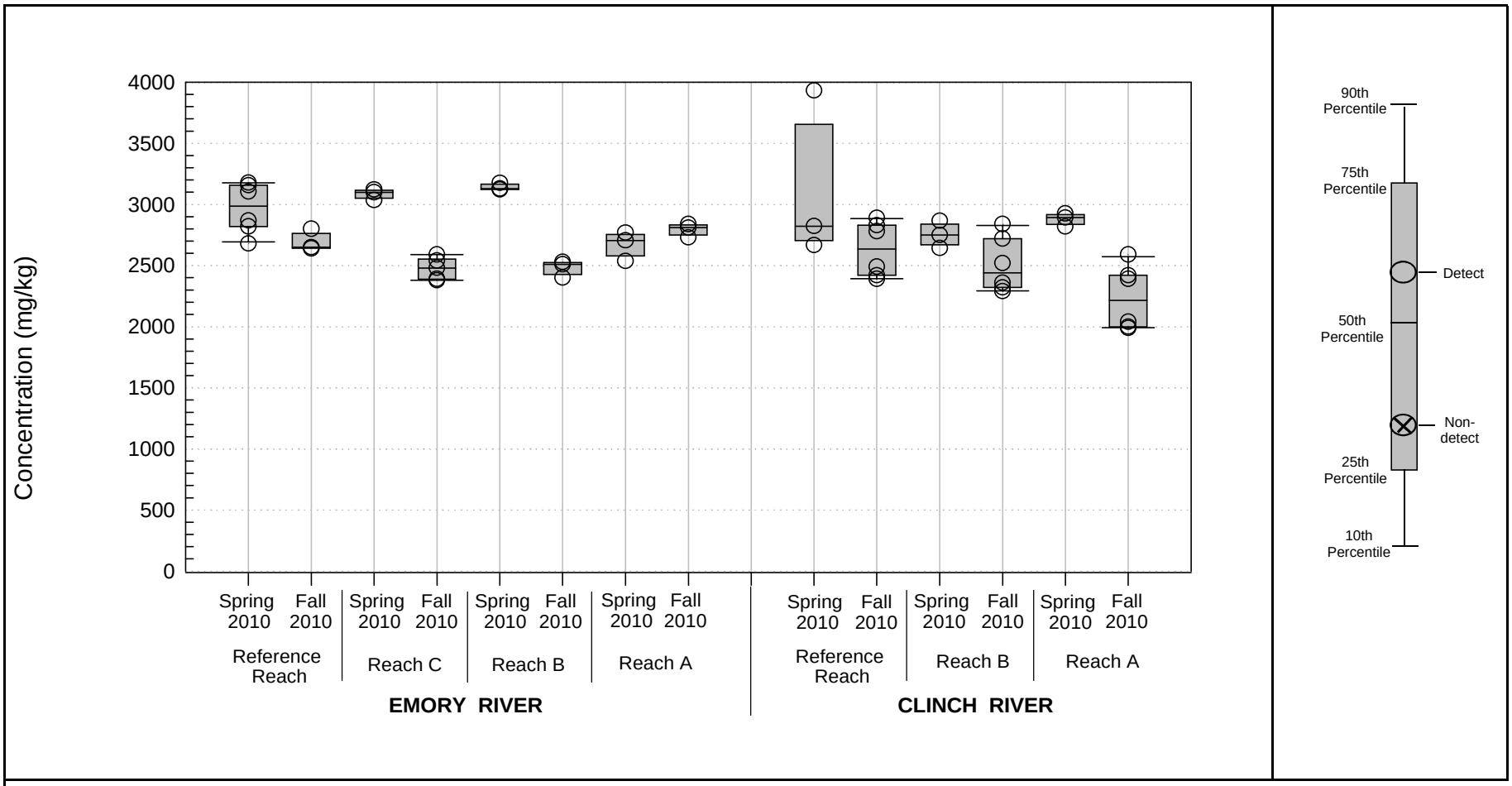
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Molybdenum
TVA Kingston



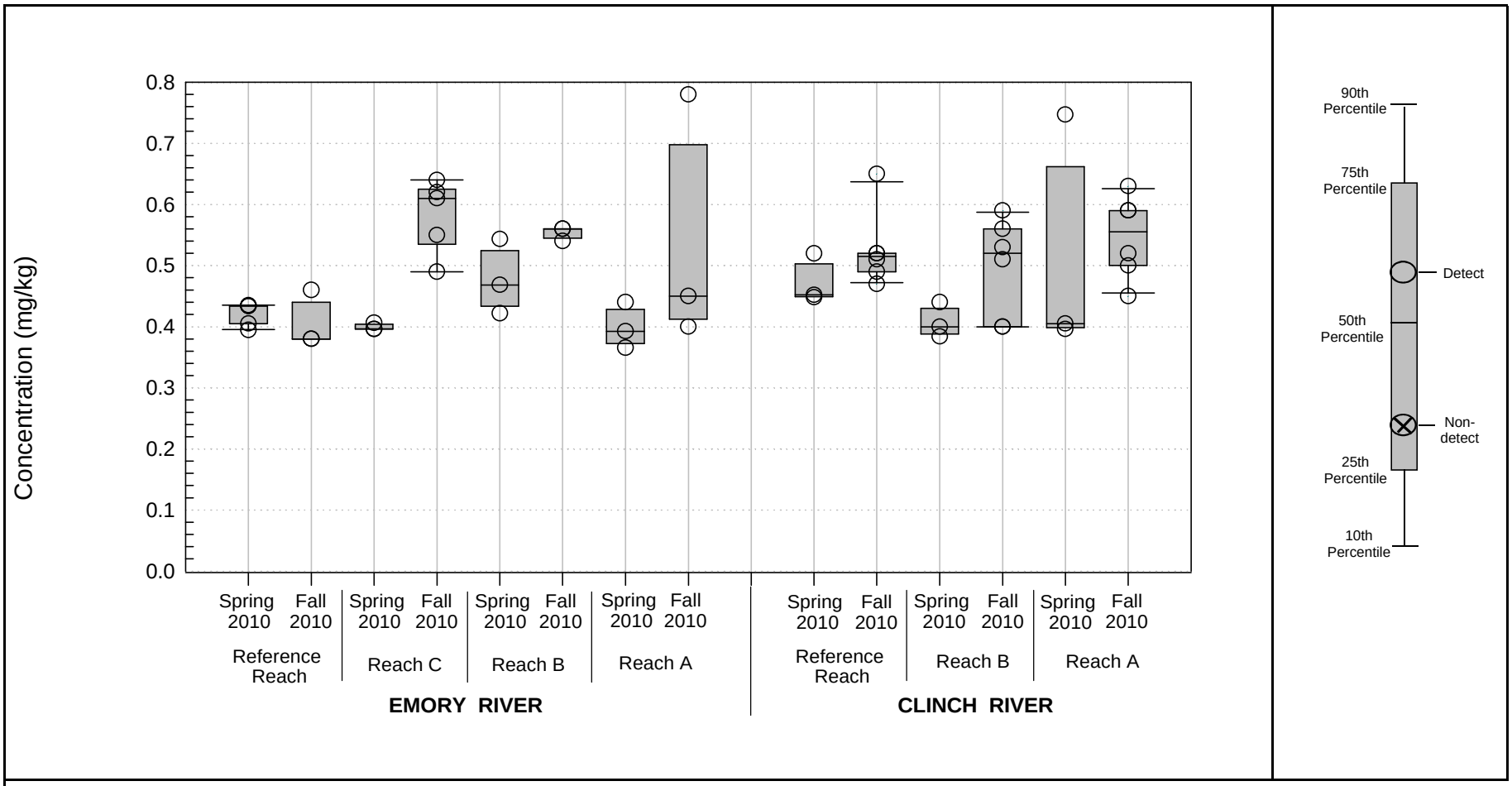
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Nickel
TVA Kingston



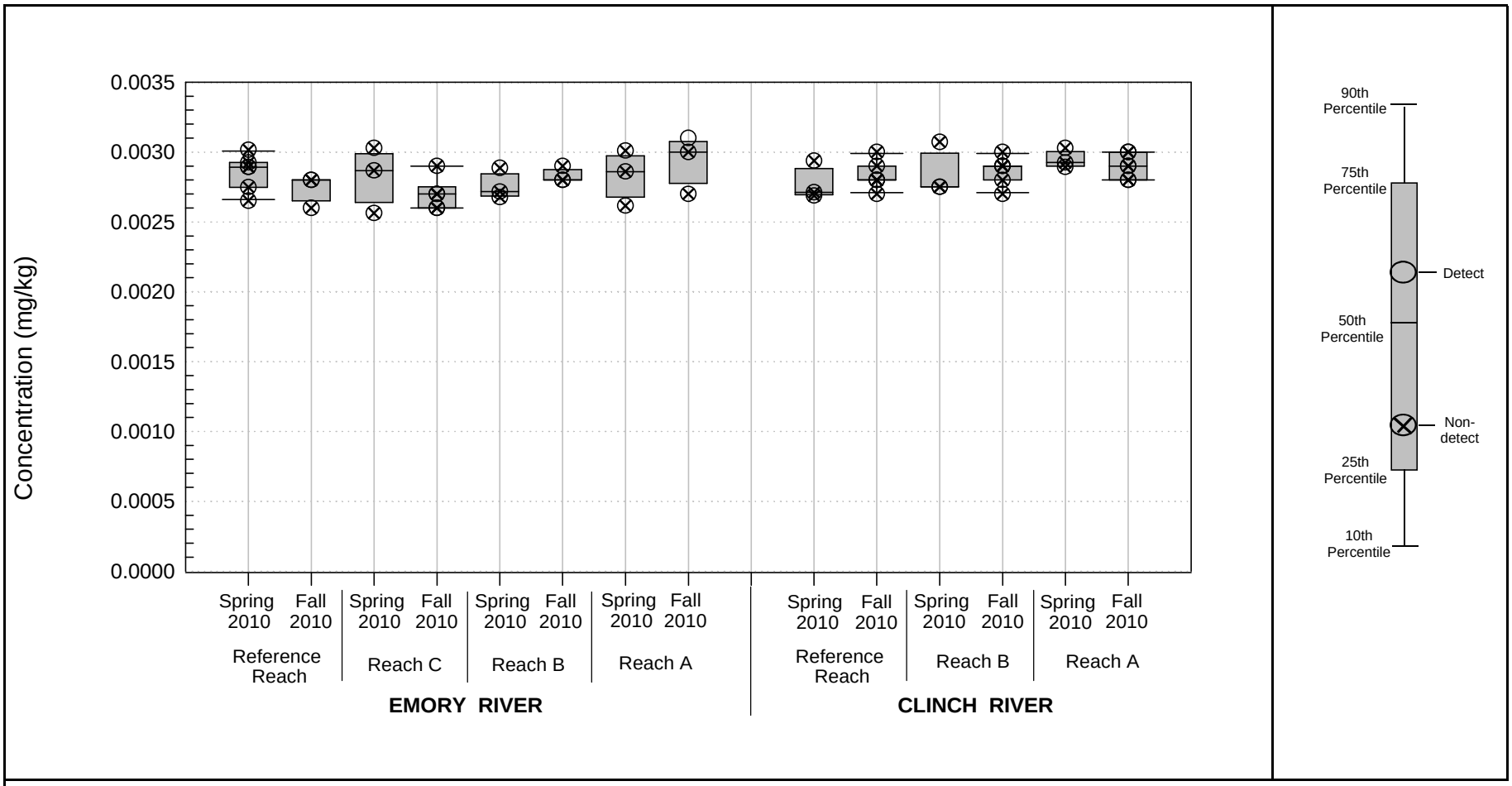
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Potassium
TVA Kingston



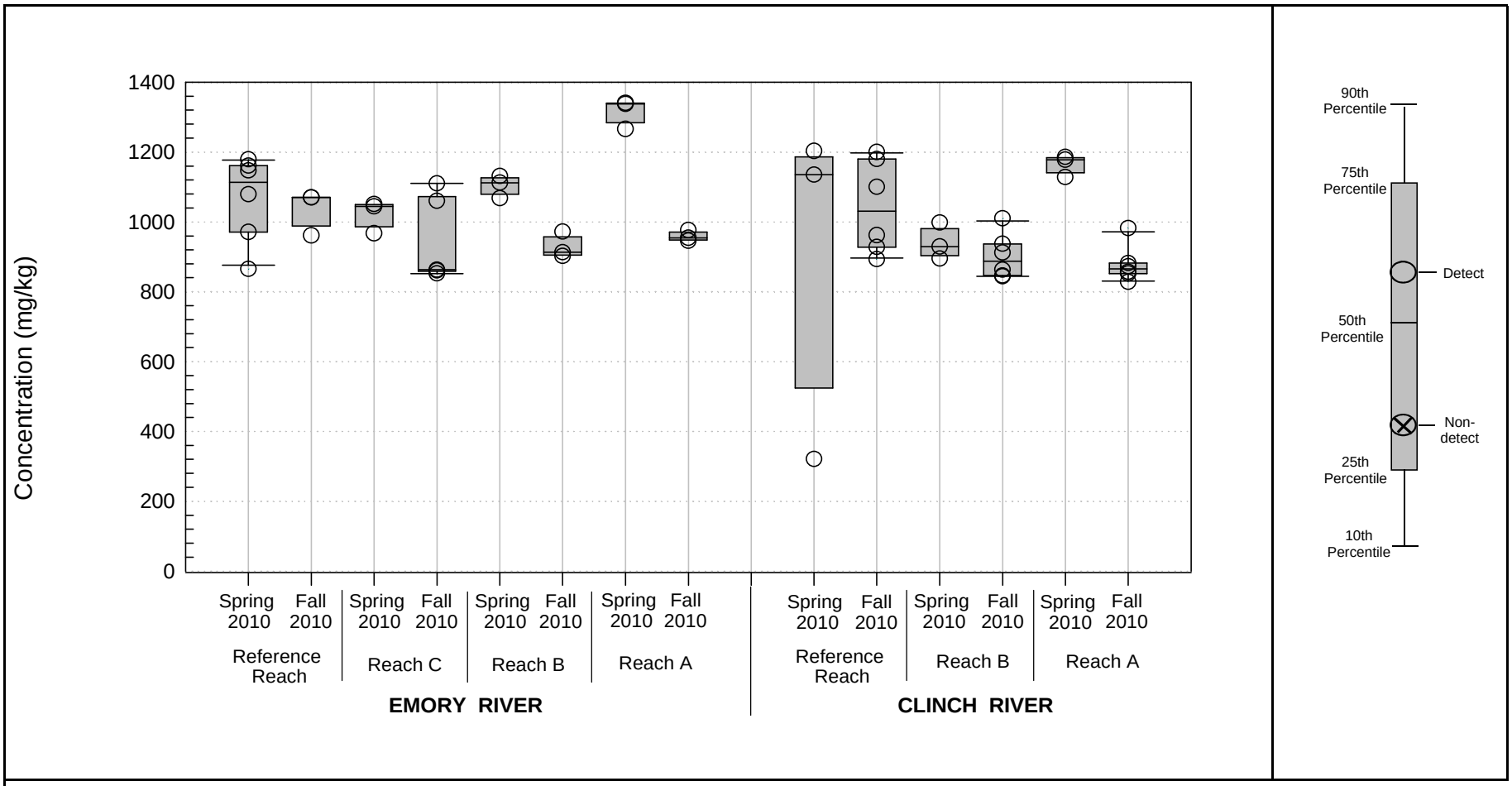
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Selenium
TVA Kingston



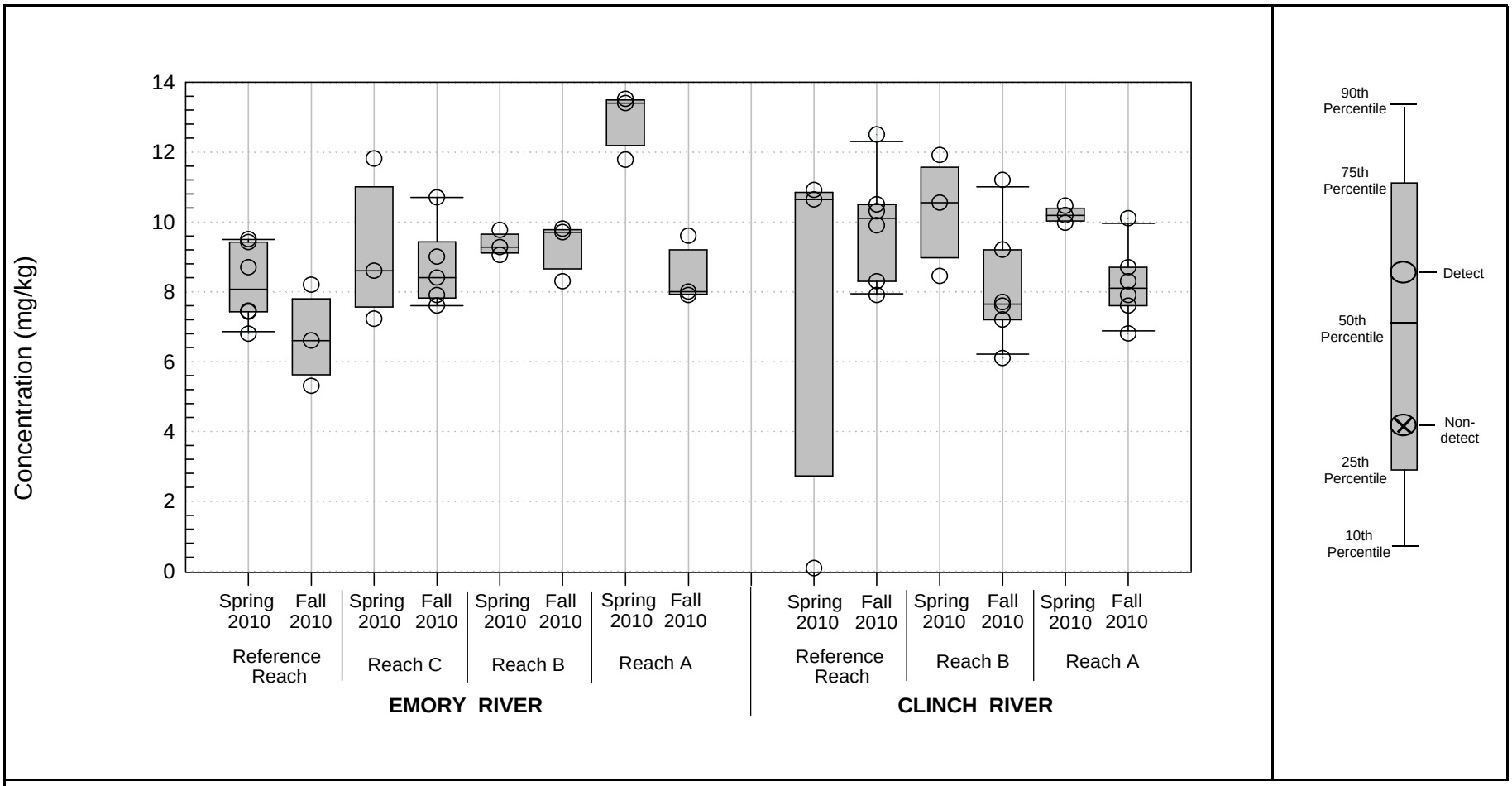
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Silver
TVA Kingston



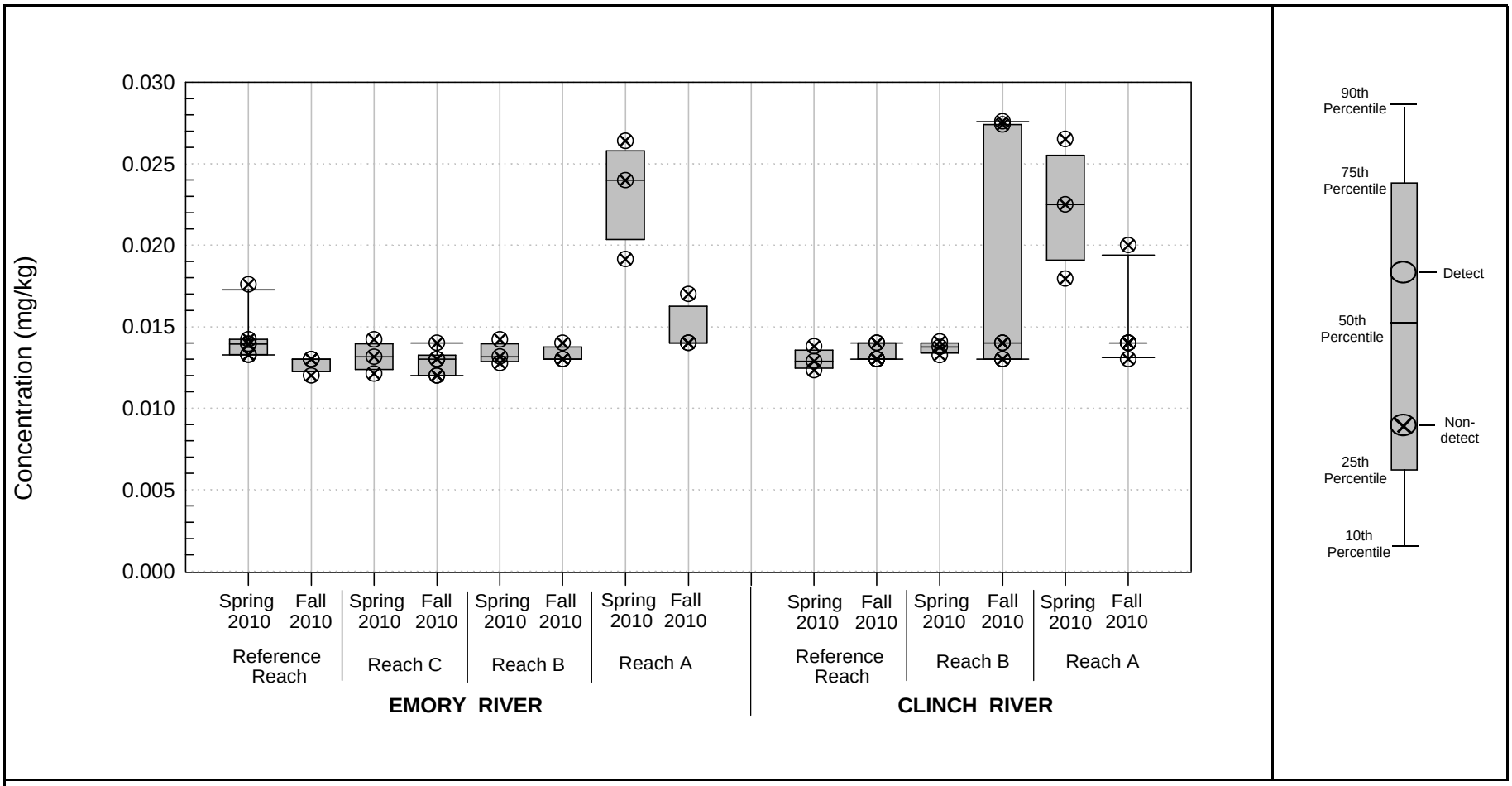
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Sodium
TVA Kingston



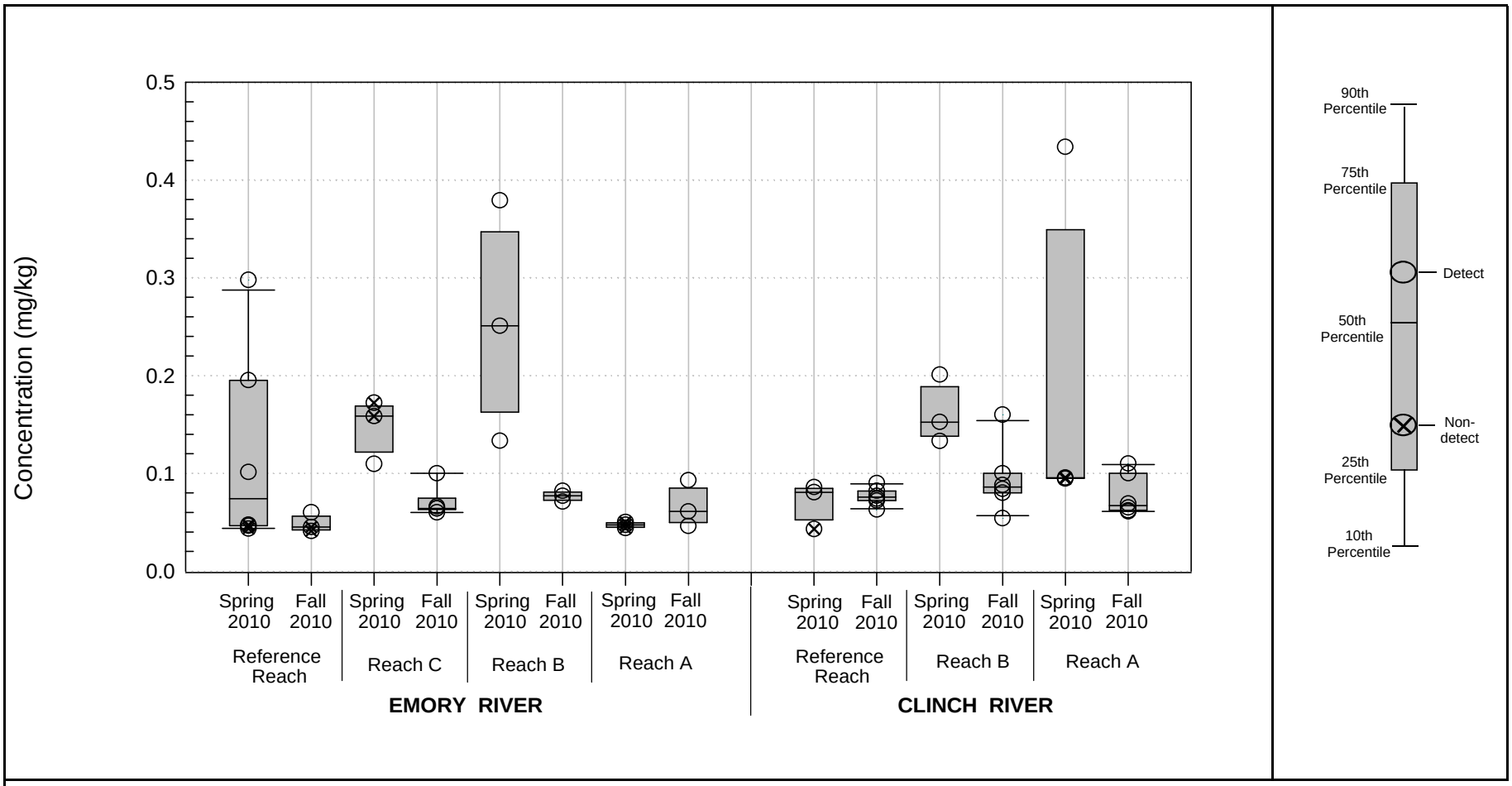
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Strontium
TVA Kingston



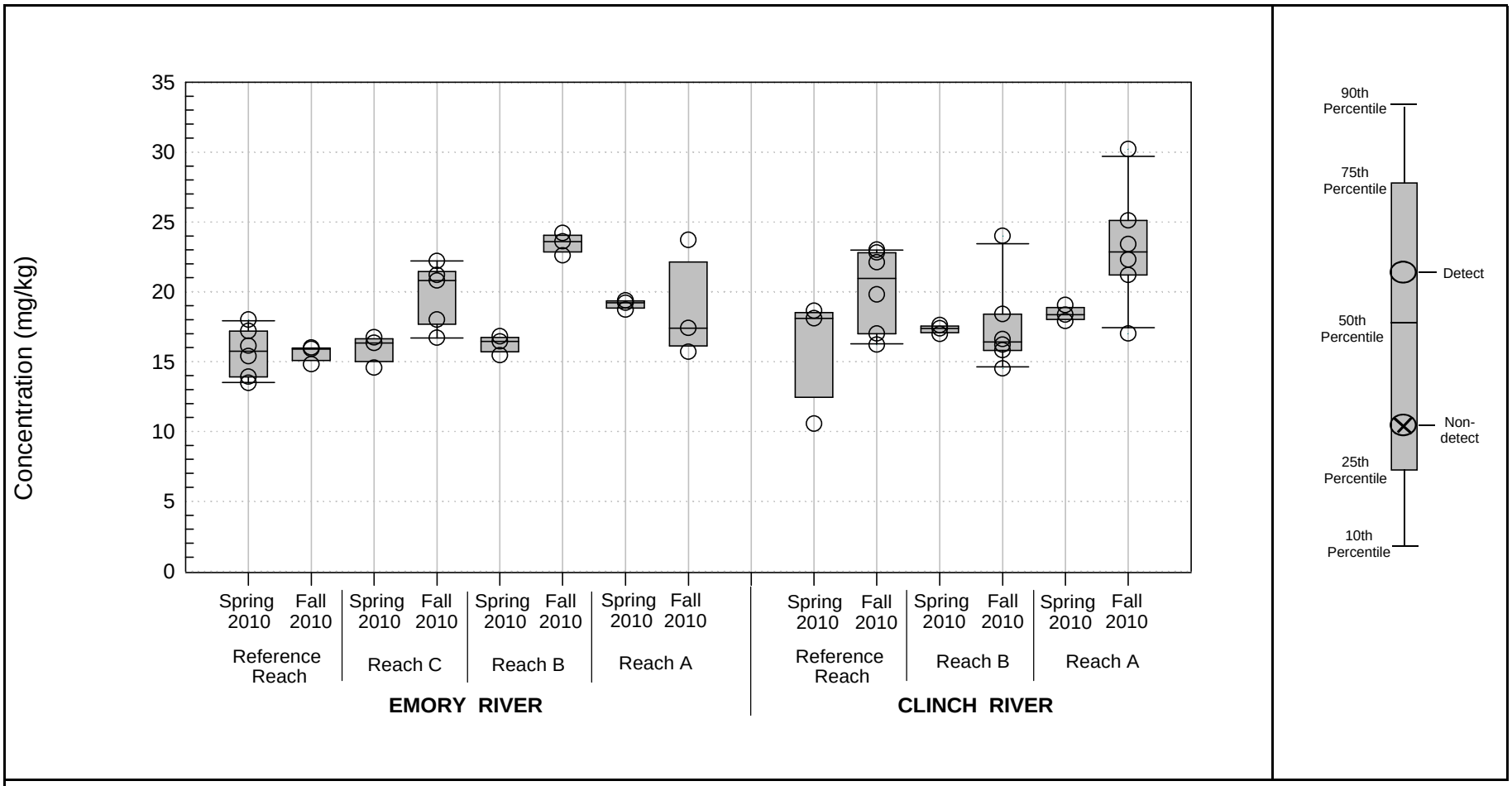
ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Thallium
TVA Kingston



ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Vanadium
TVA Kingston

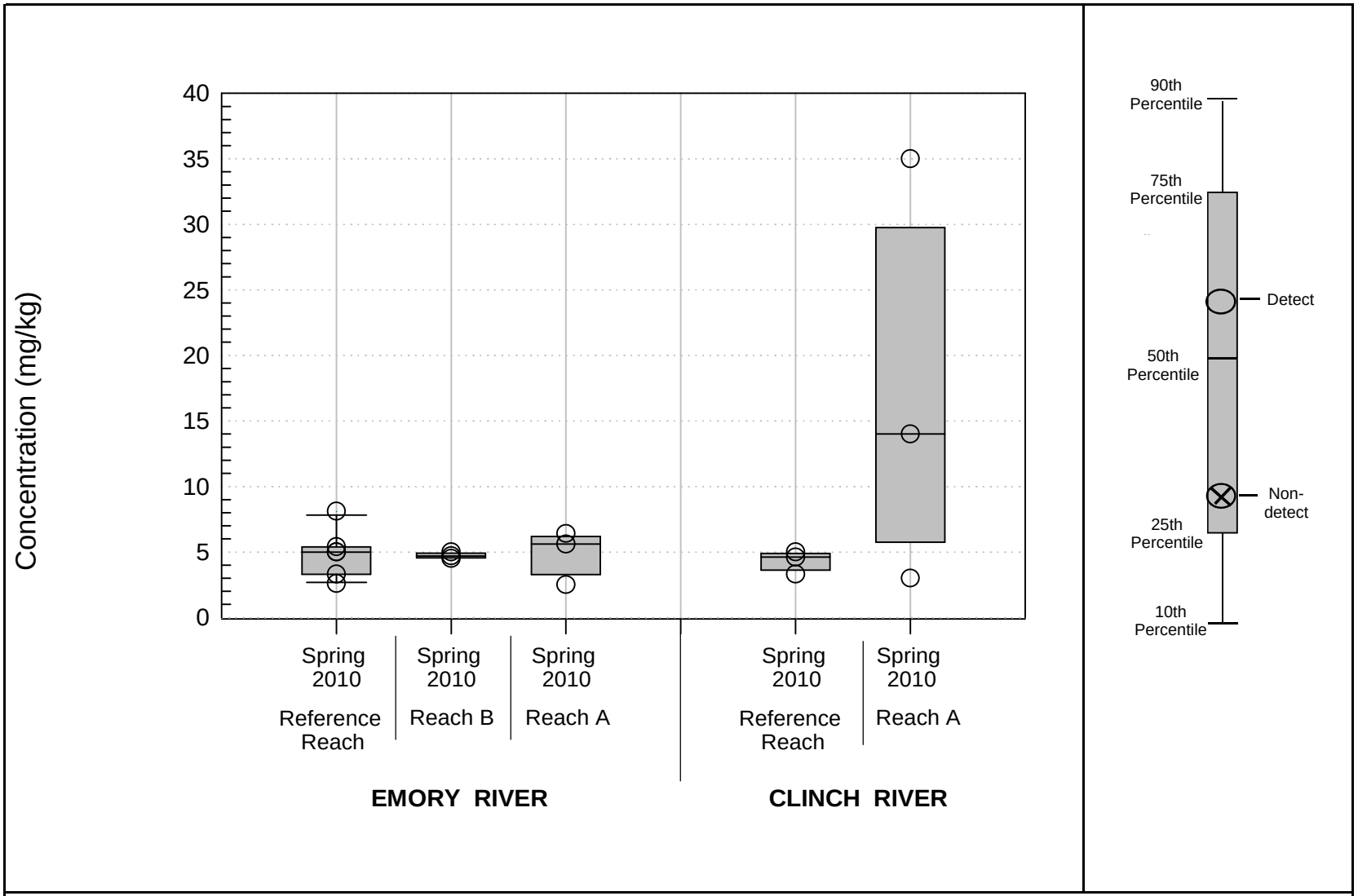


ARCADIS

Whole Body Without Gut or Gut Contents
Gizzard Shad - Zinc
TVA Kingston

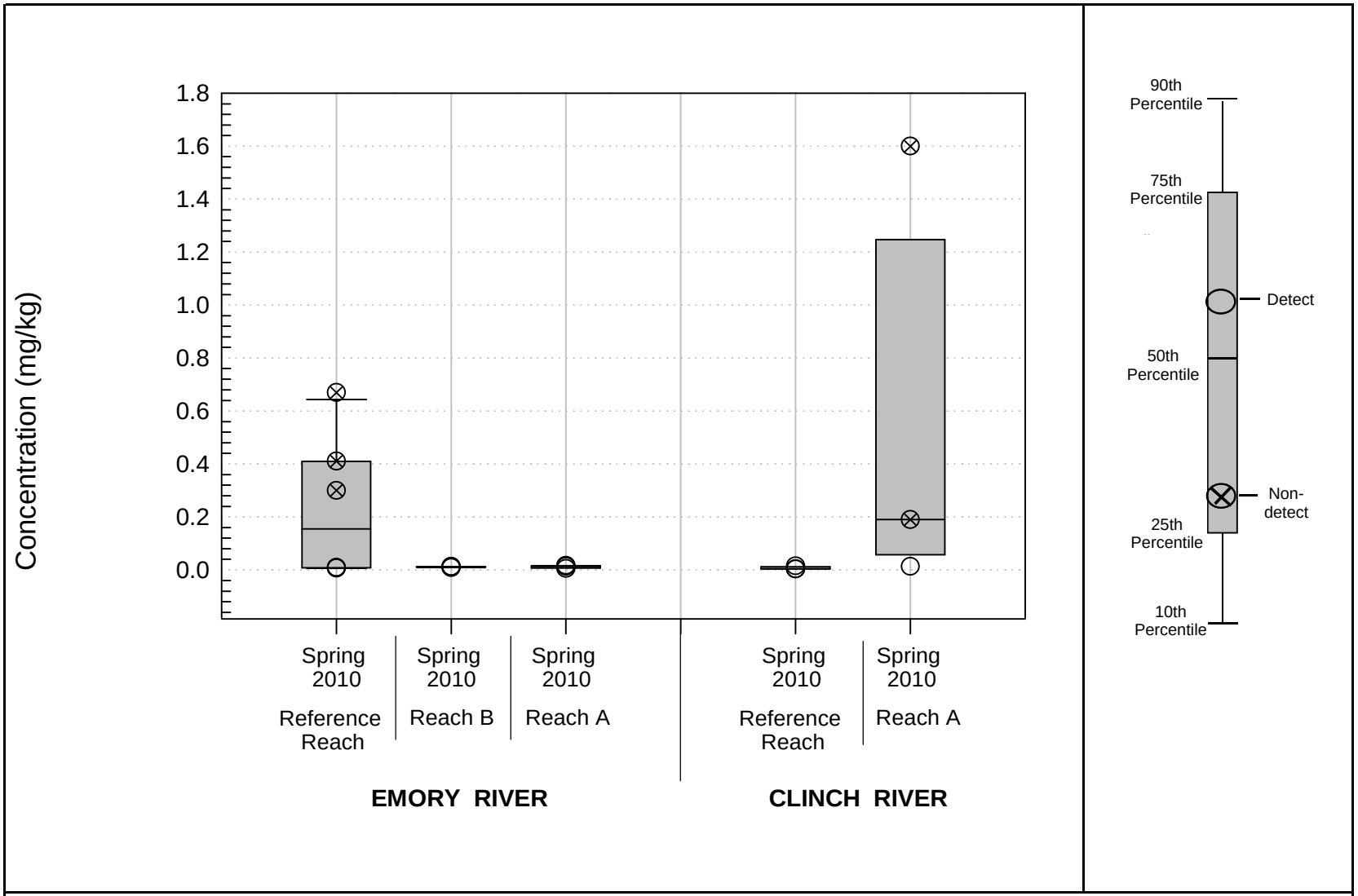
Appendix H

Box Plots Presenting Liver Tissue Concentrations of Analytes in Bluegill and Largemouth Bass



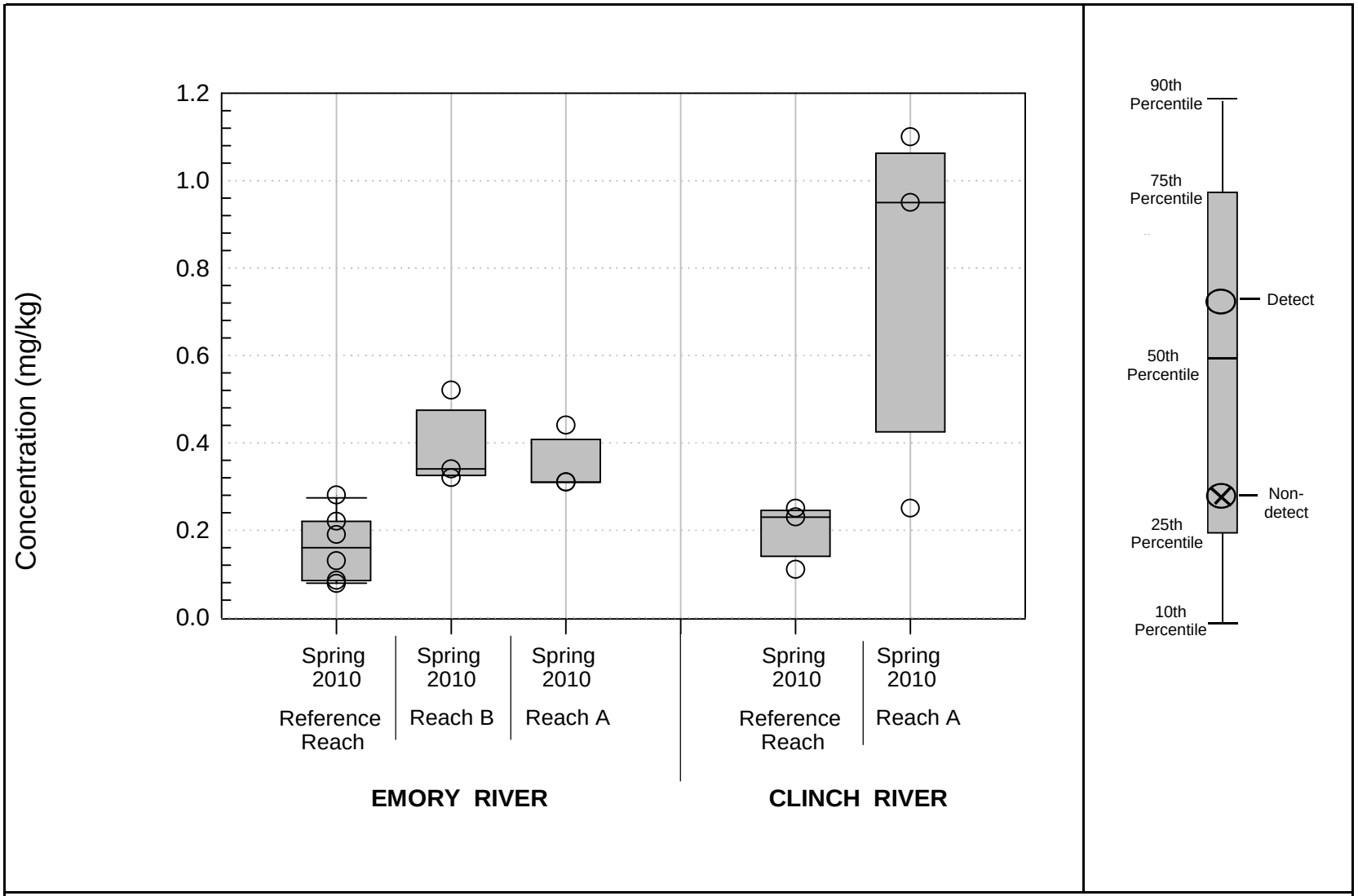
ARCADIS

Liver
Bluegill - Aluminum
TVA Kingston



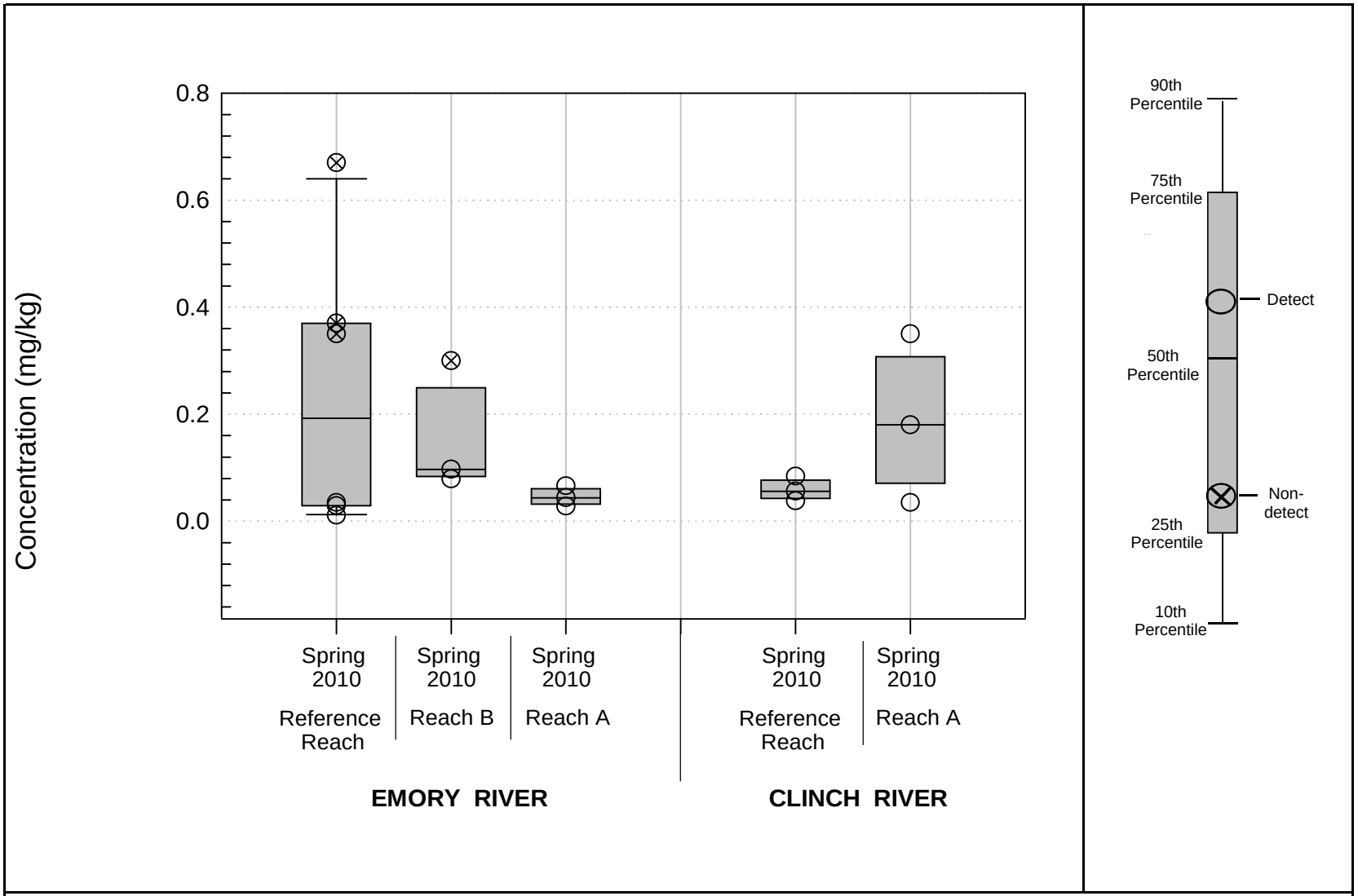
ARCADIS

Liver
Bluegill - Antimony
TVA Kingston



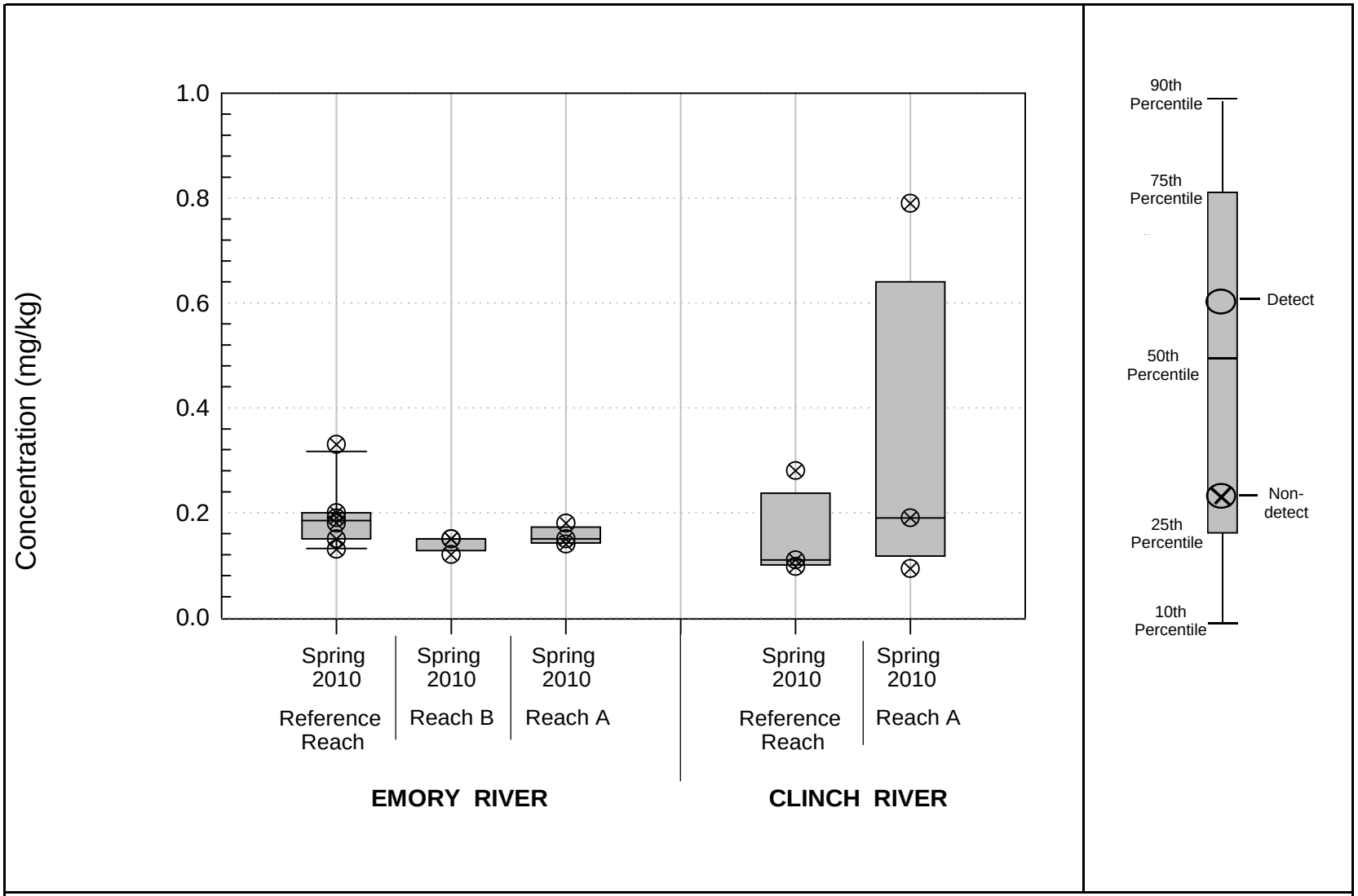
ARCADIS

Liver
Bluegill - Arsenic
TVA Kingston



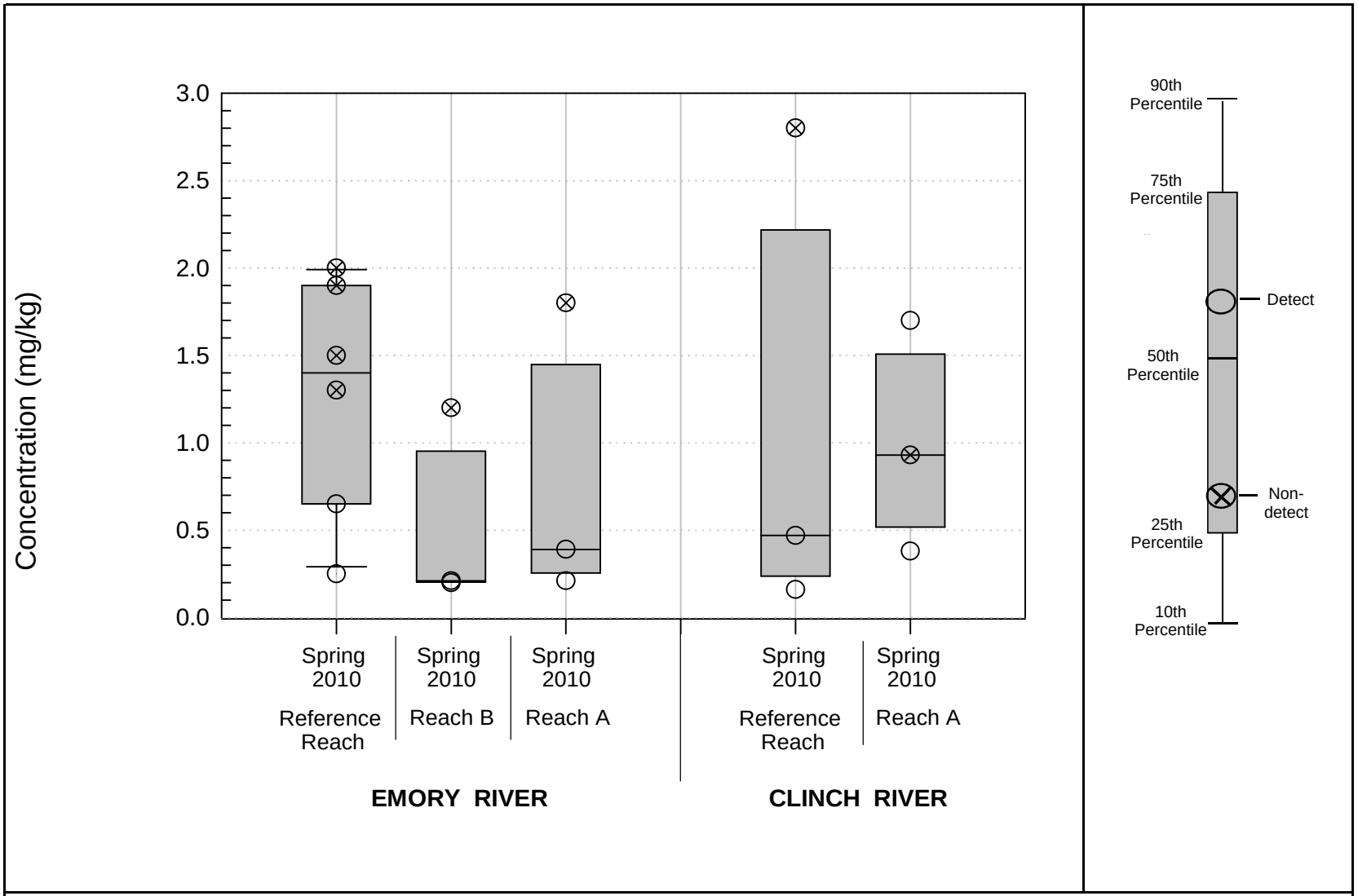
ARCADIS

Liver
Bluegill - Barium
TVA Kingston



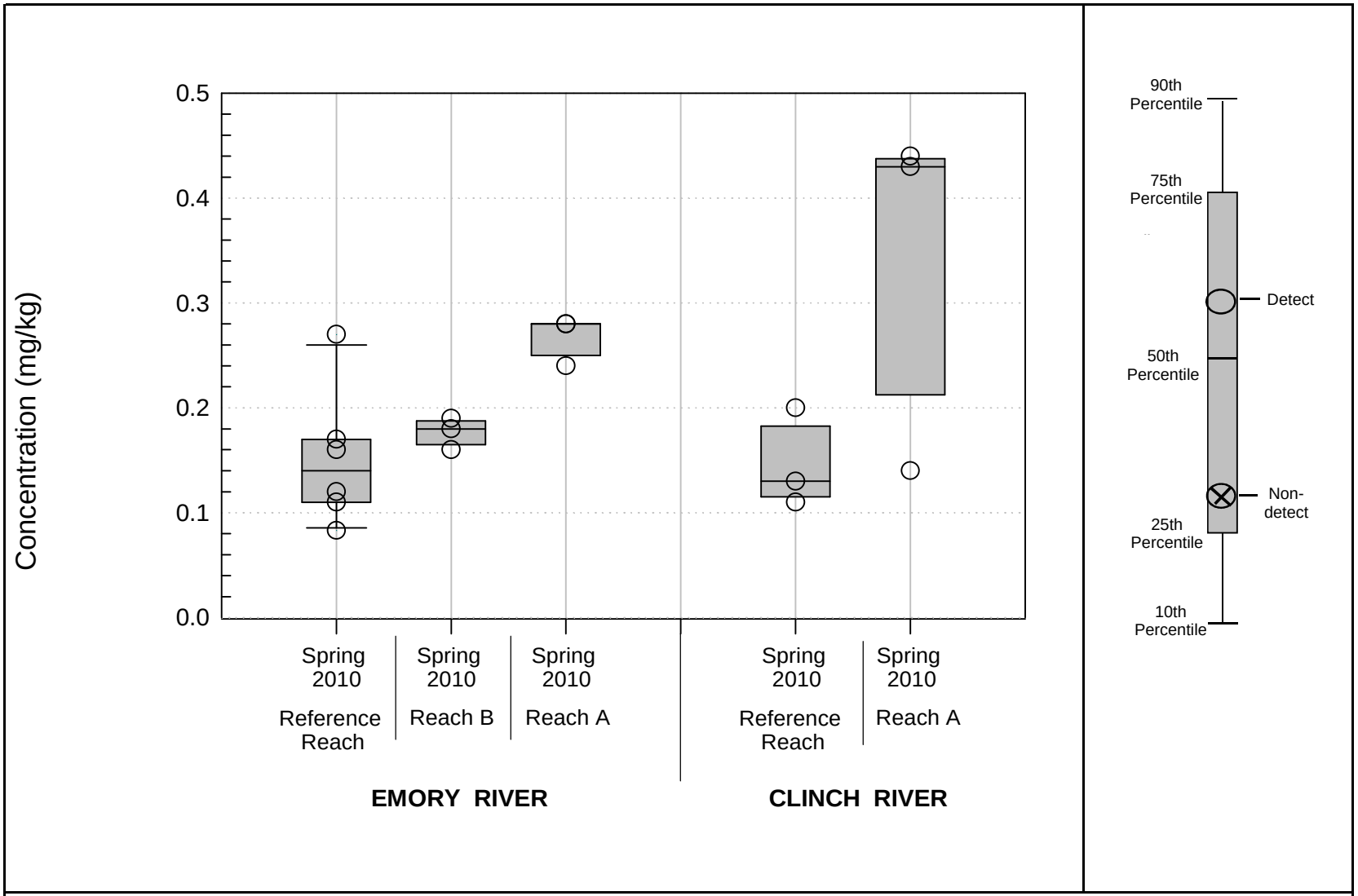
ARCADIS

Liver
Bluegill - Beryllium
TVA Kingston



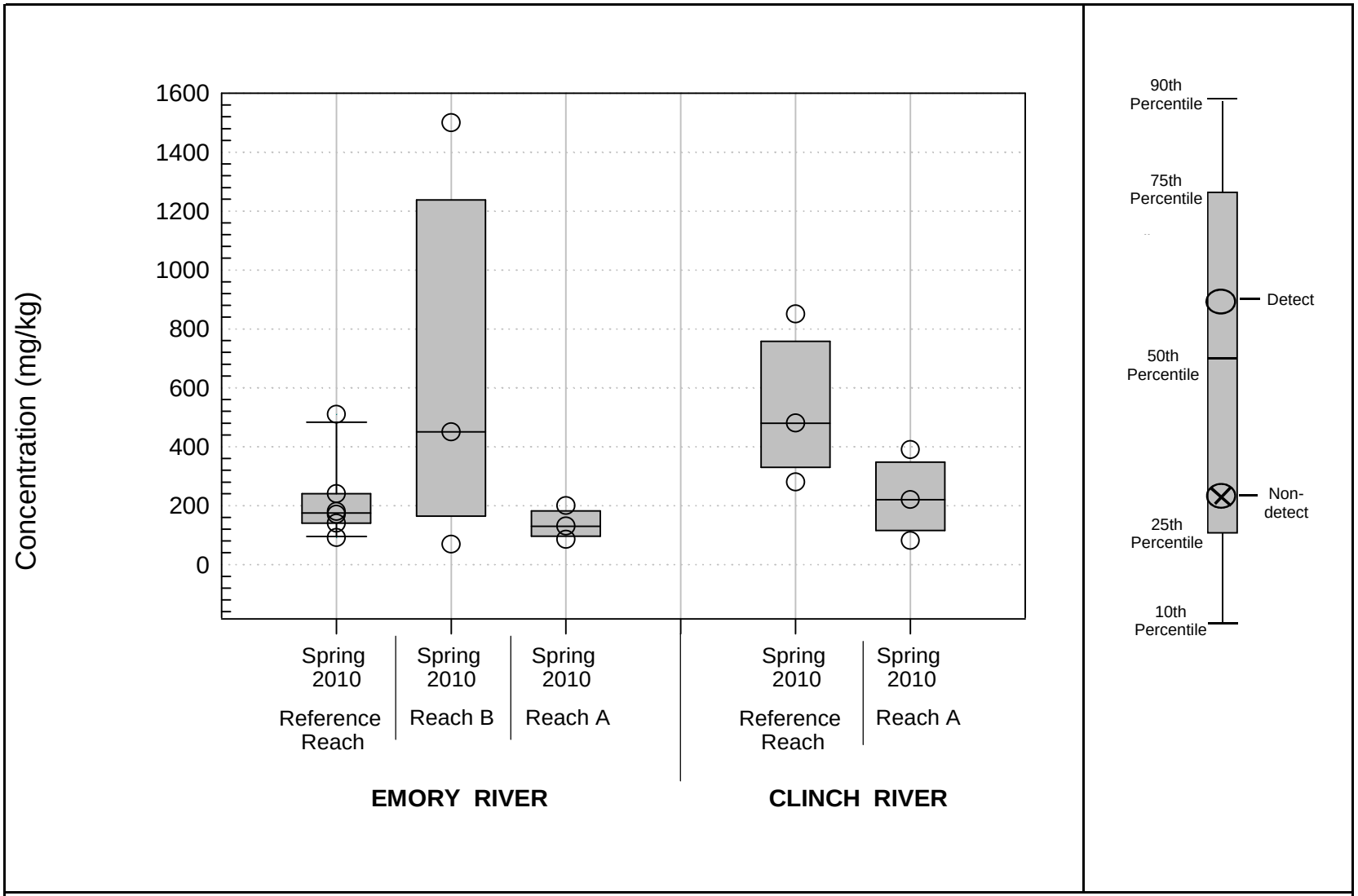
ARCADIS

Liver
Bluegill - Boron
TVA Kingston



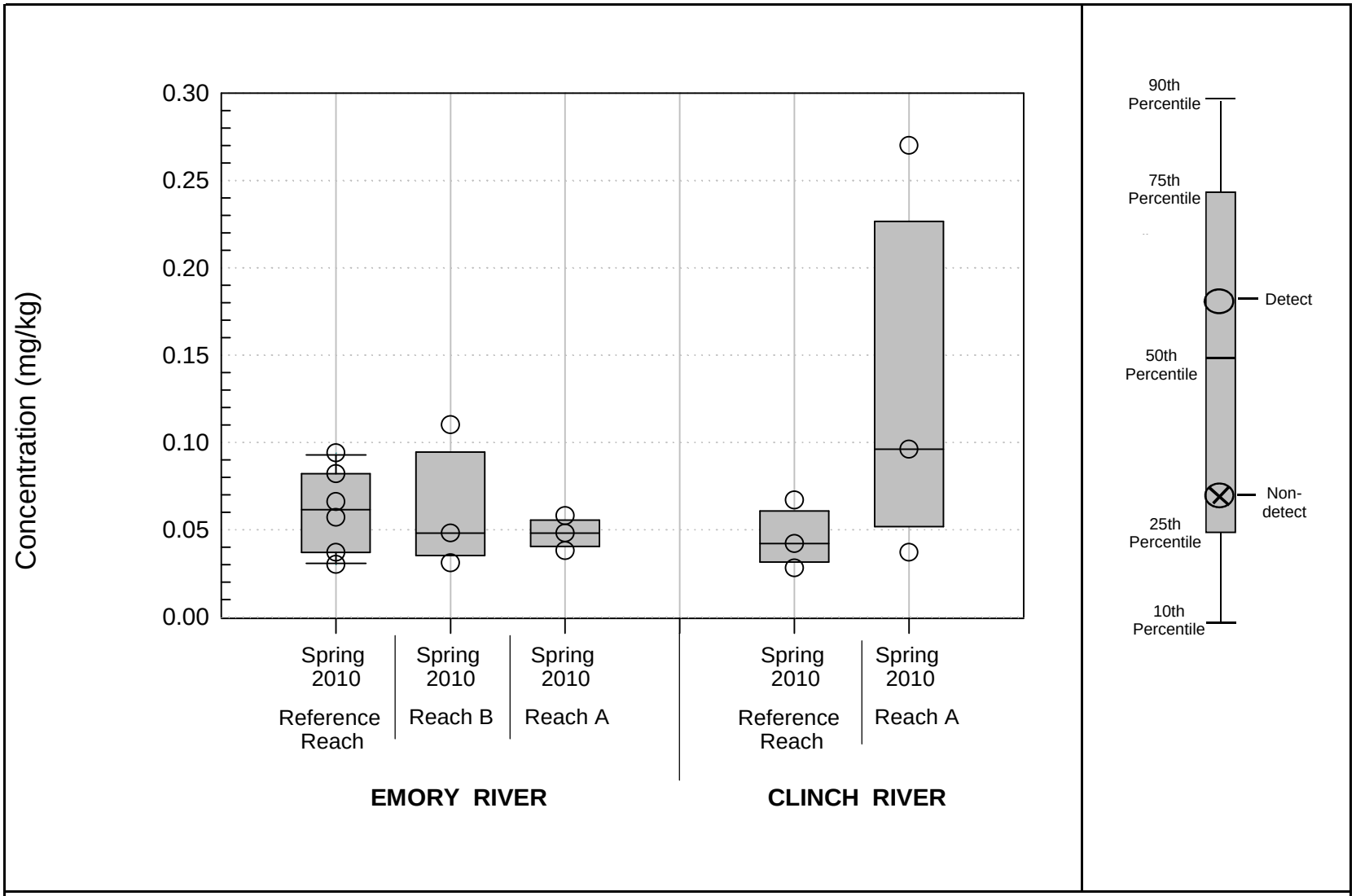
ARCADIS

Liver
Bluegill - Cadmium
TVA Kingston



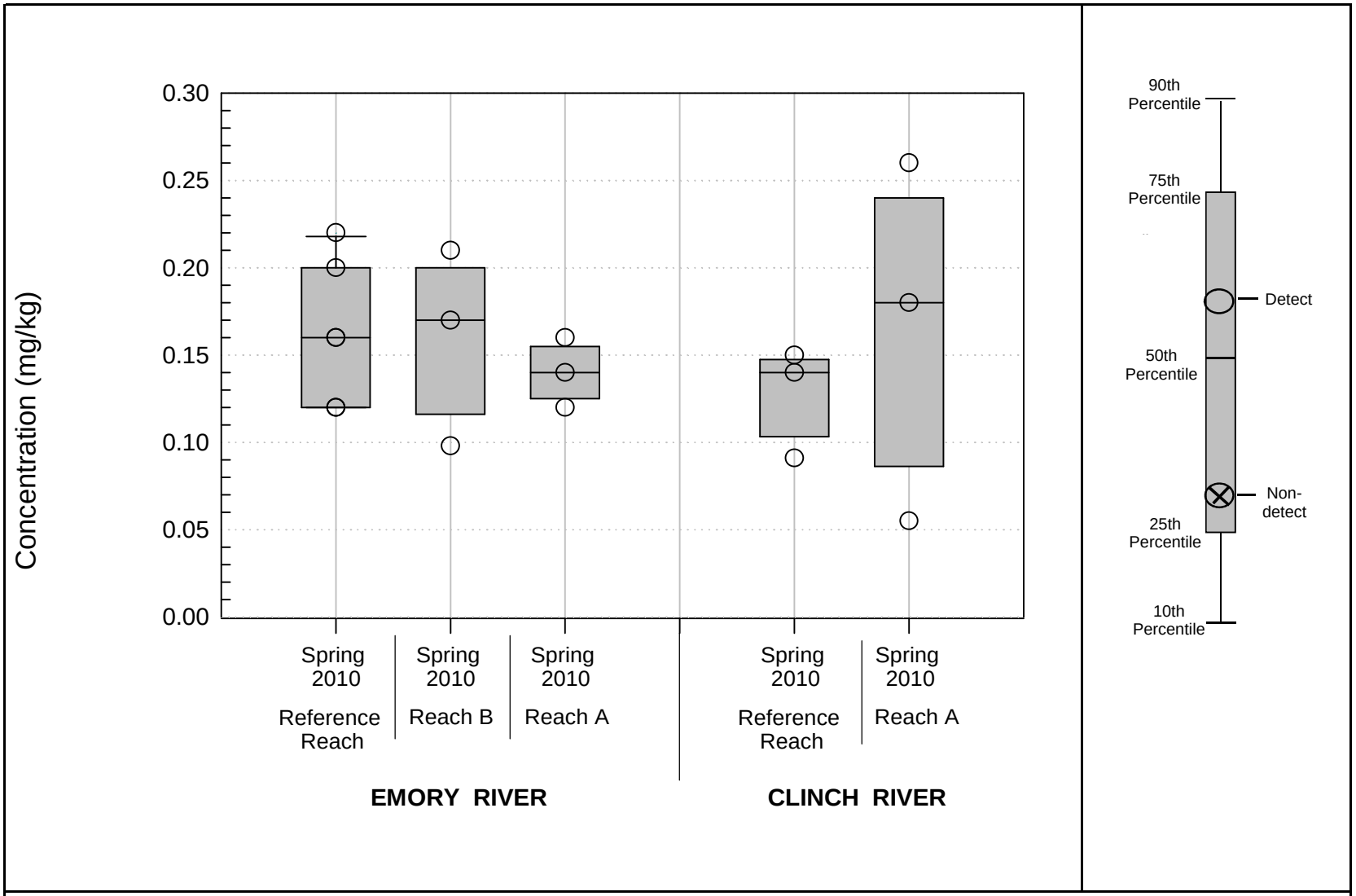
ARCADIS

Liver
Bluegill - Calcium
TVA Kingston



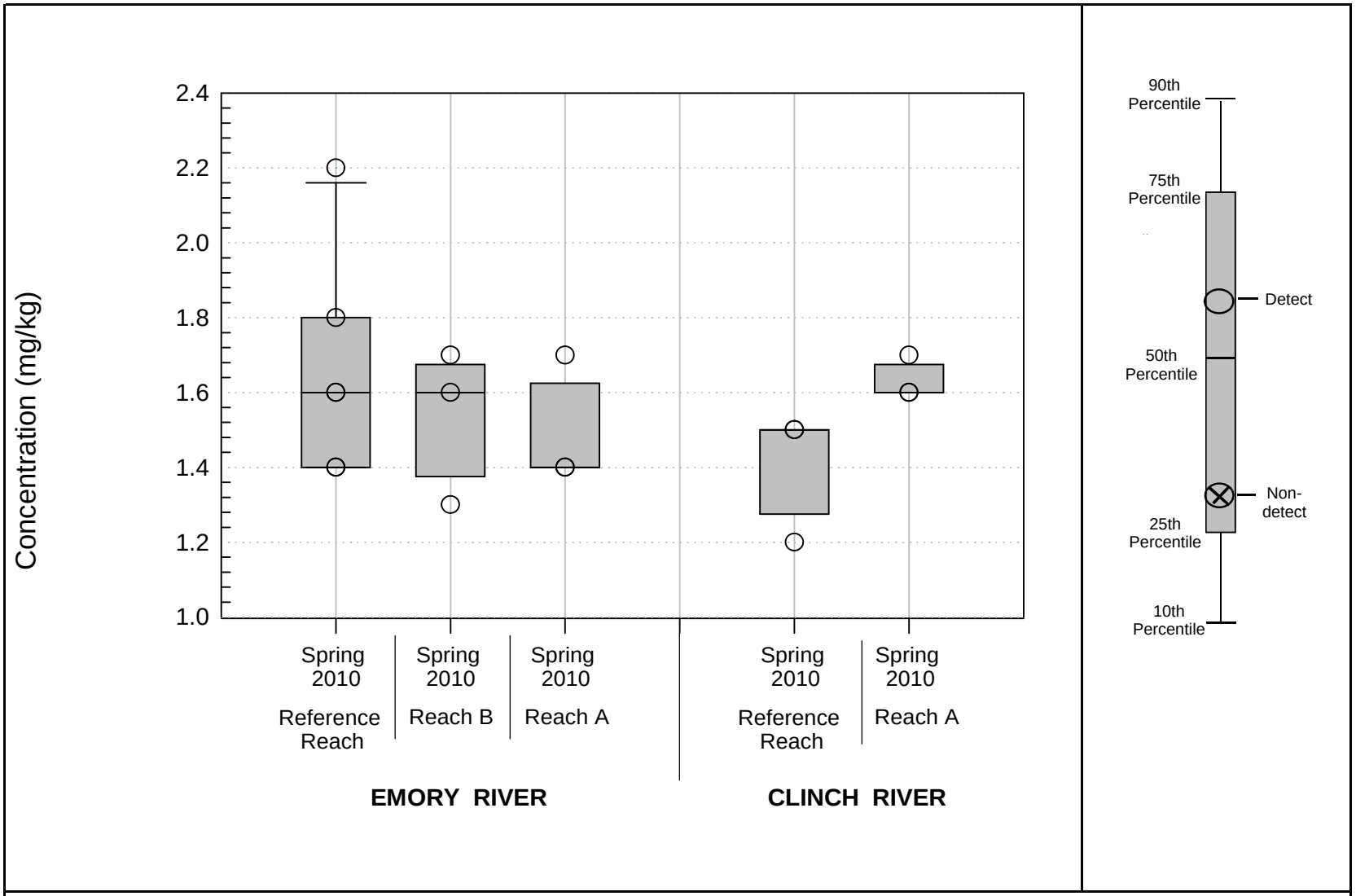
ARCADIS

Liver
Bluegill - Chromium
TVA Kingston



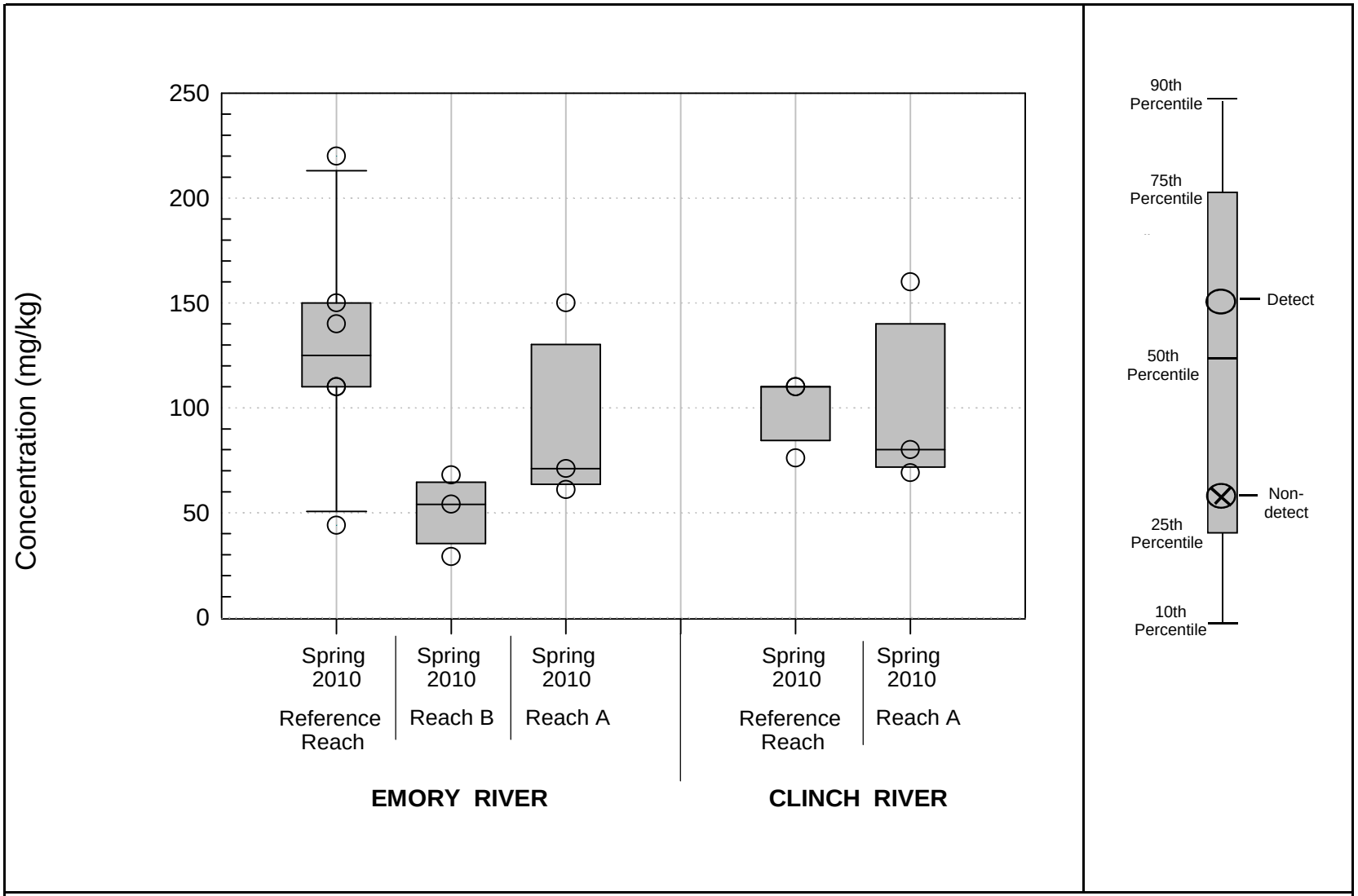
ARCADIS

Liver
Bluegill - Cobalt
TVA Kingston



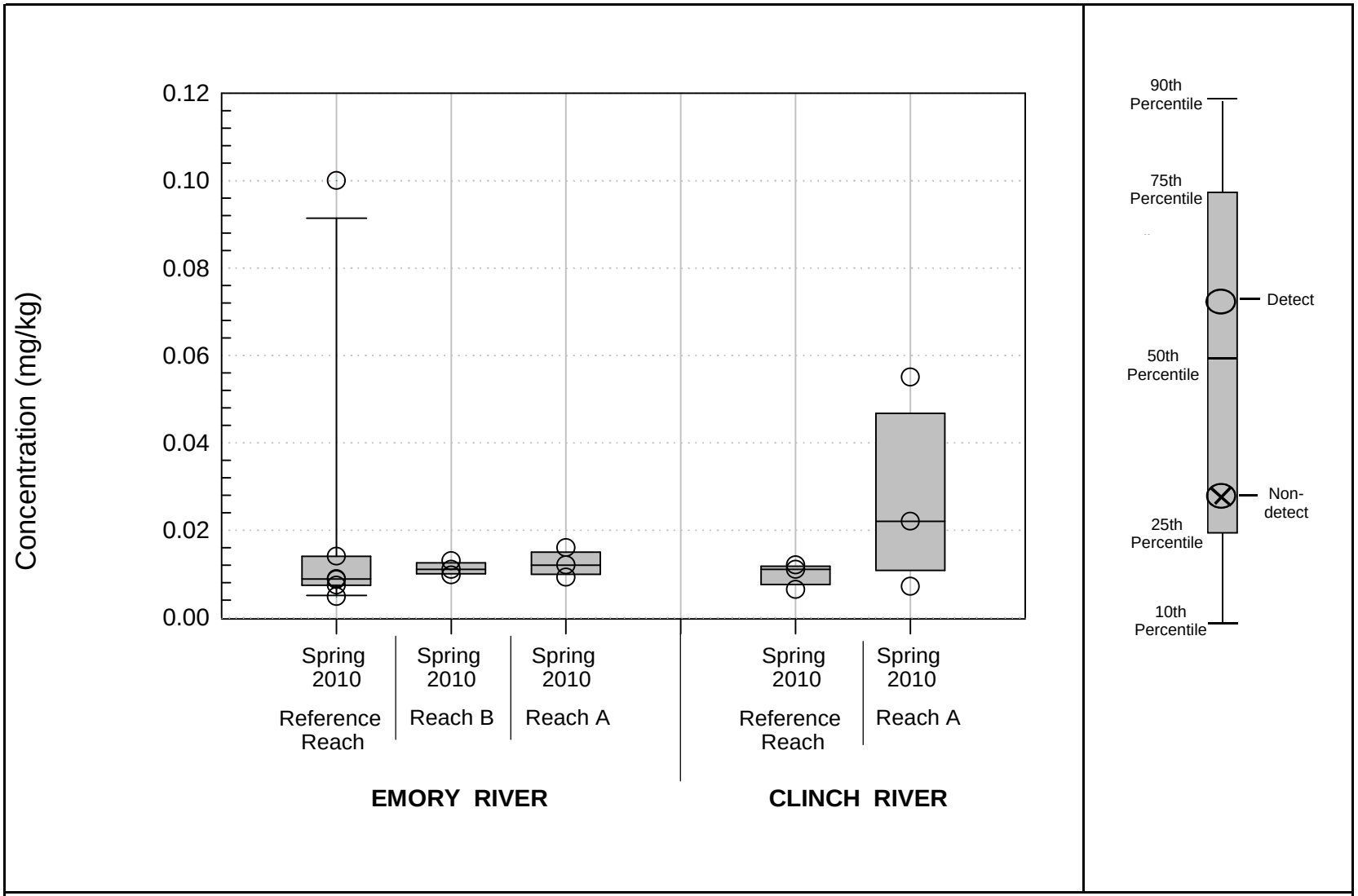
ARCADIS

Liver
Bluegill - Copper
TVA Kingston



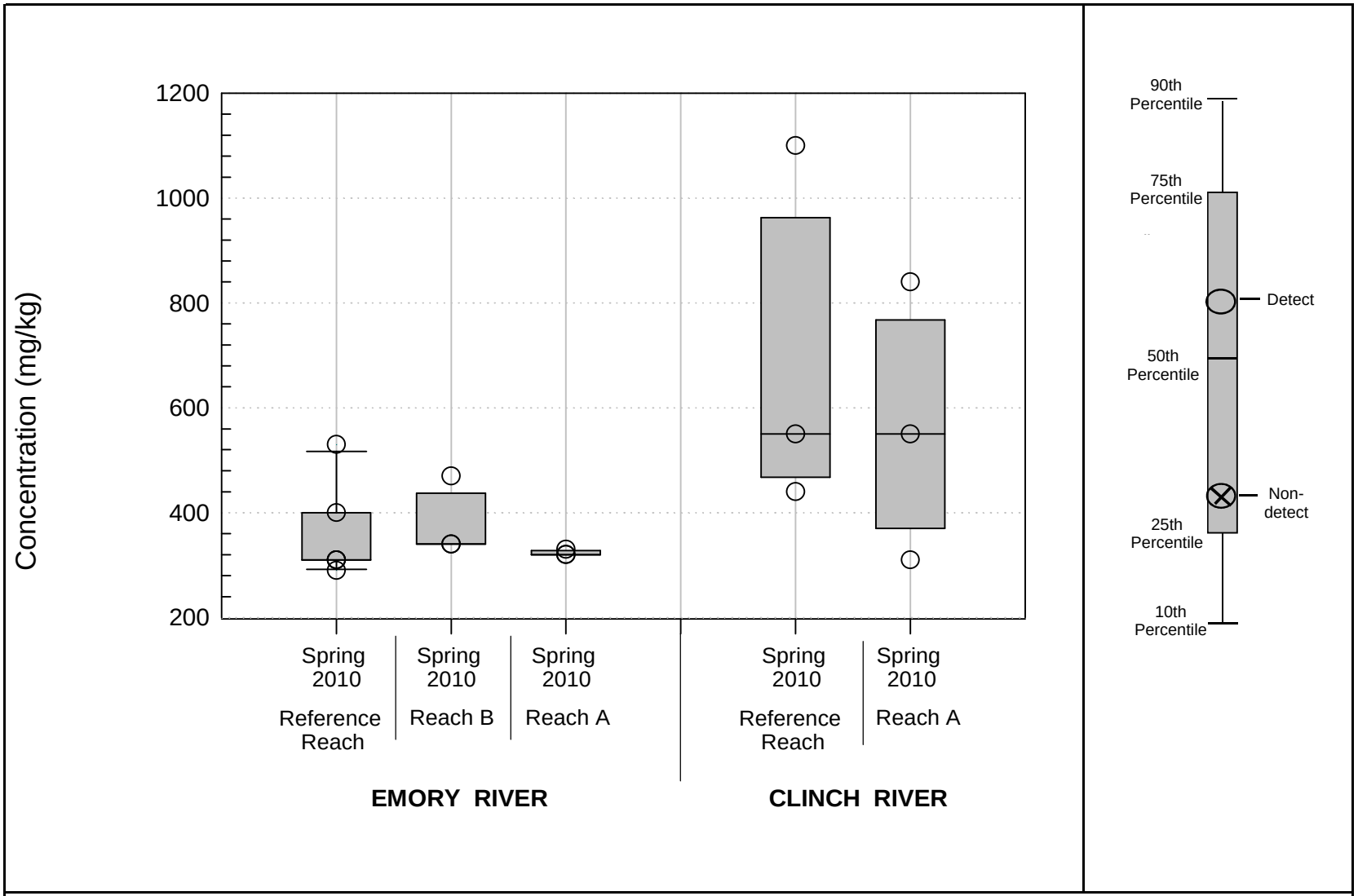
ARCADIS

Liver
Bluegill - Iron
TVA Kingston



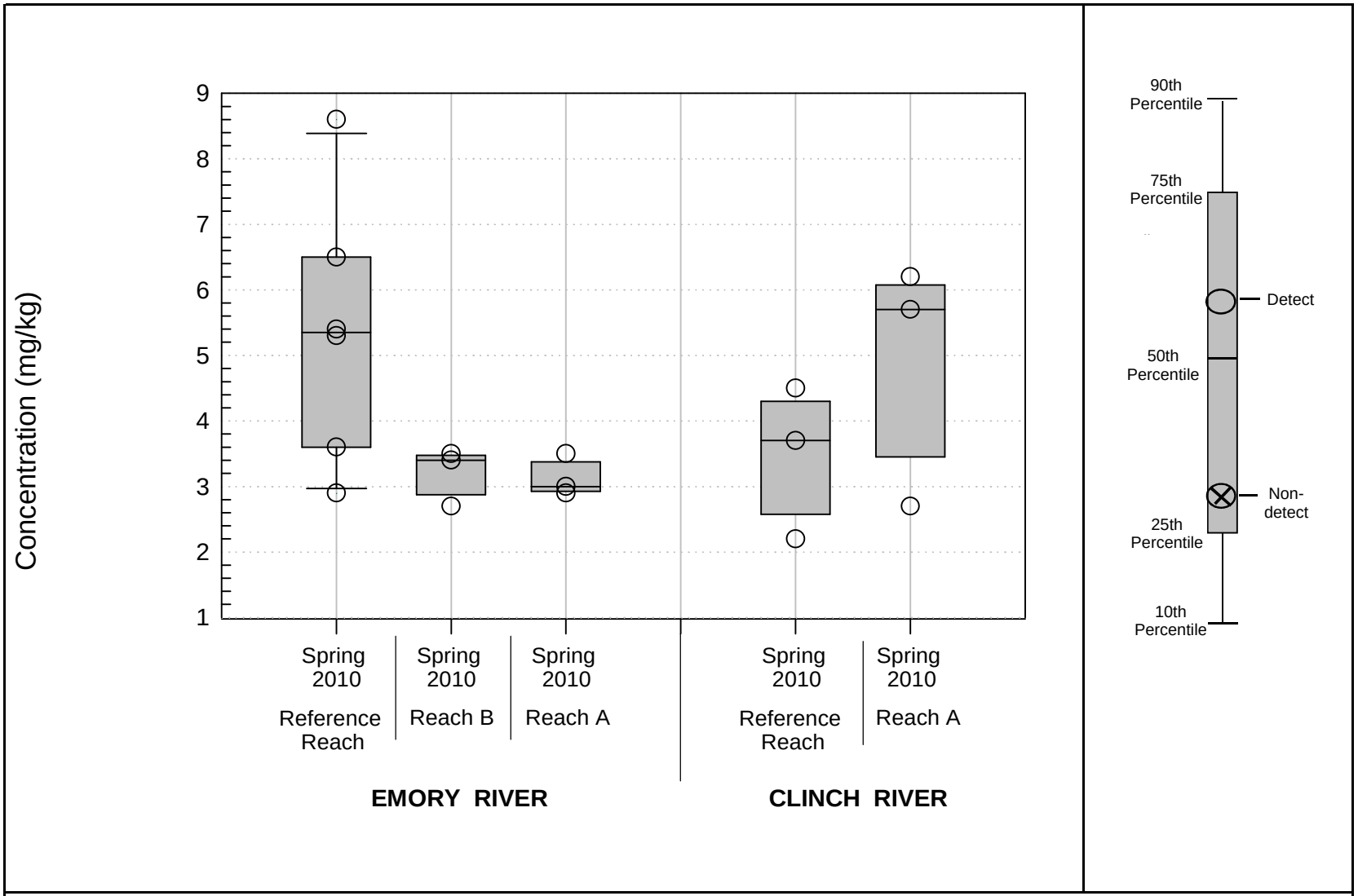
ARCADIS

Liver
Bluegill - Lead
TVA Kingston



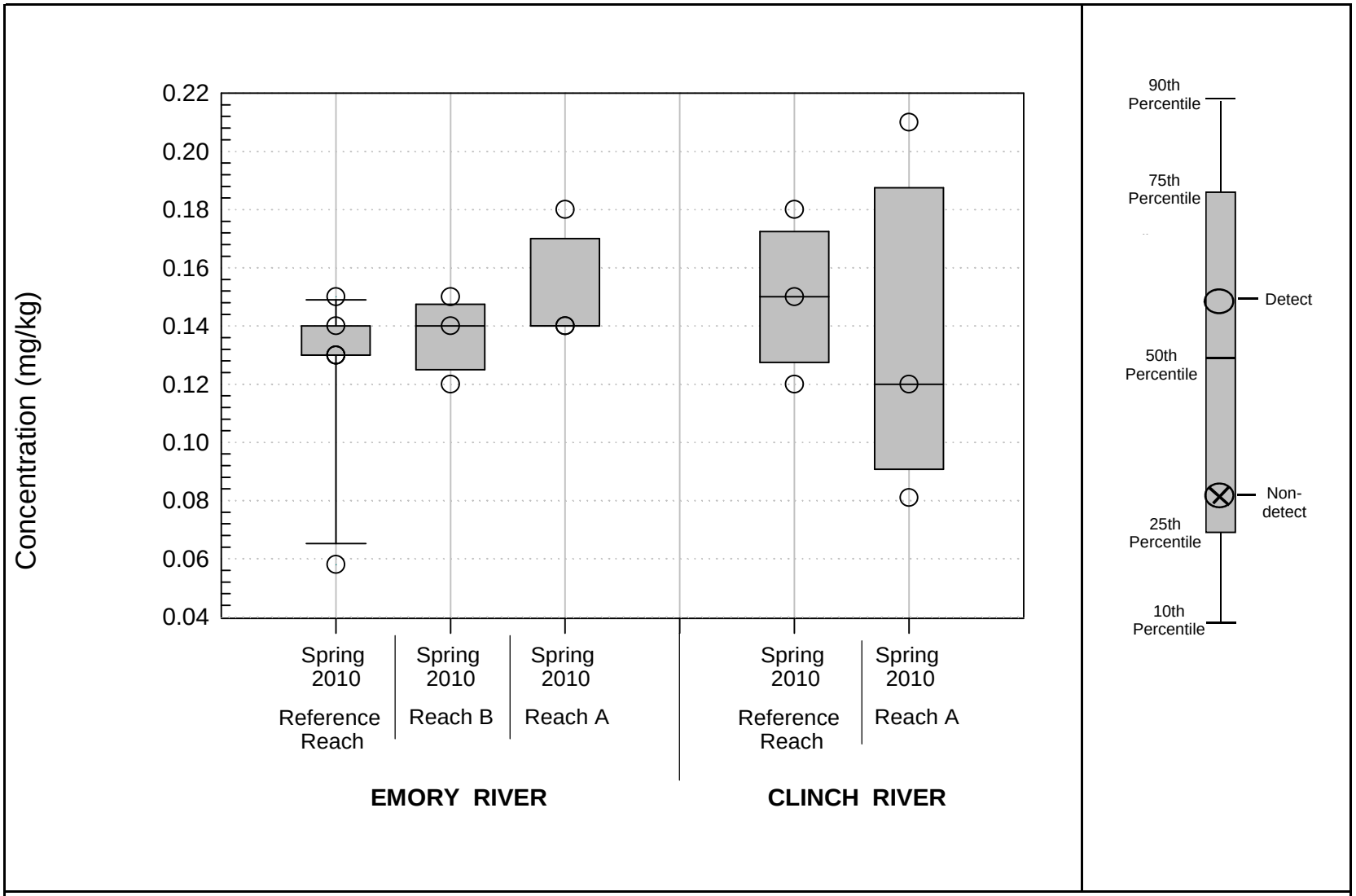
ARCADIS

Liver
Bluegill - Magnesium
TVA Kingston



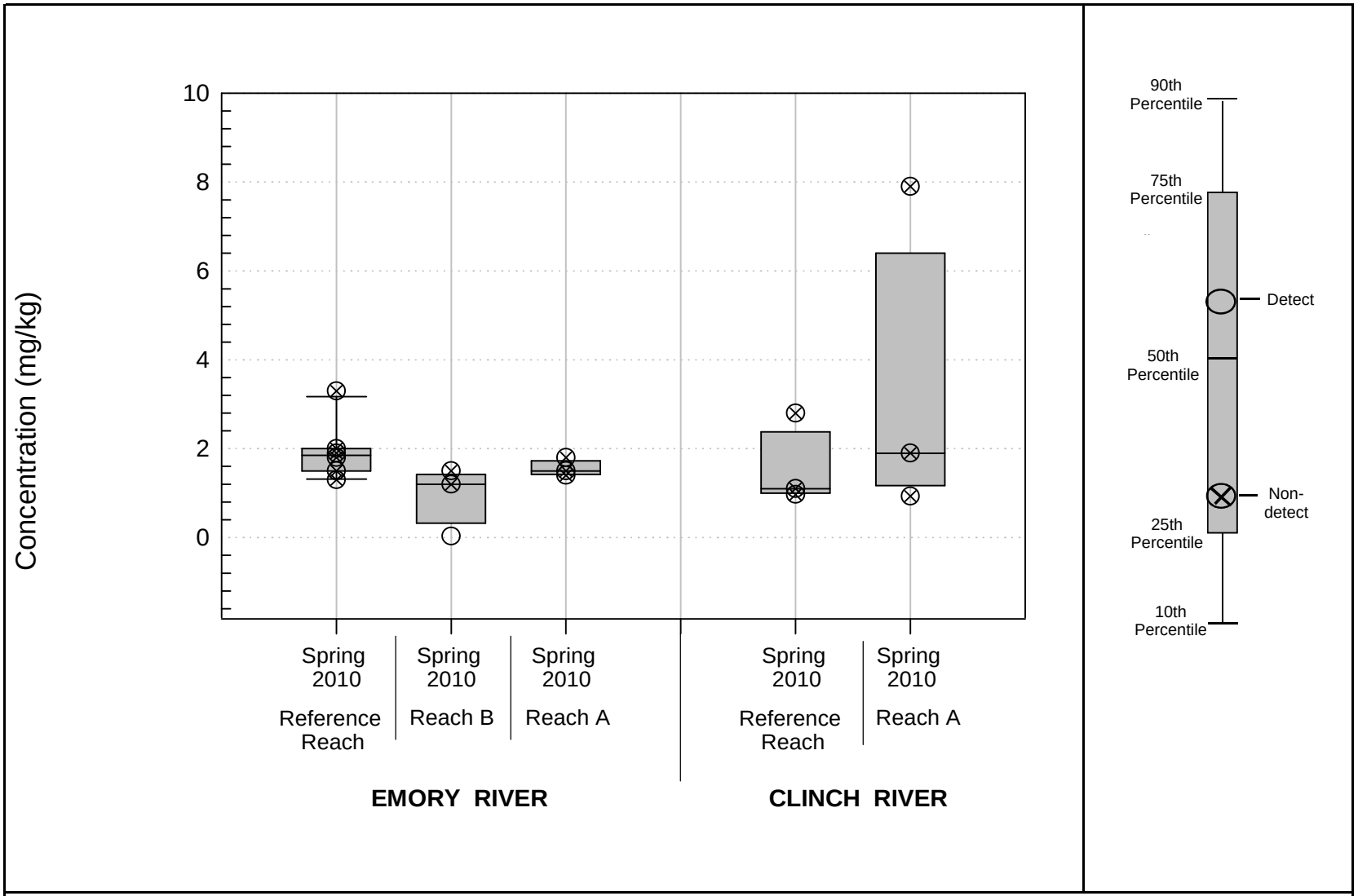
ARCADIS

Liver
Bluegill - Manganese
TVA Kingston



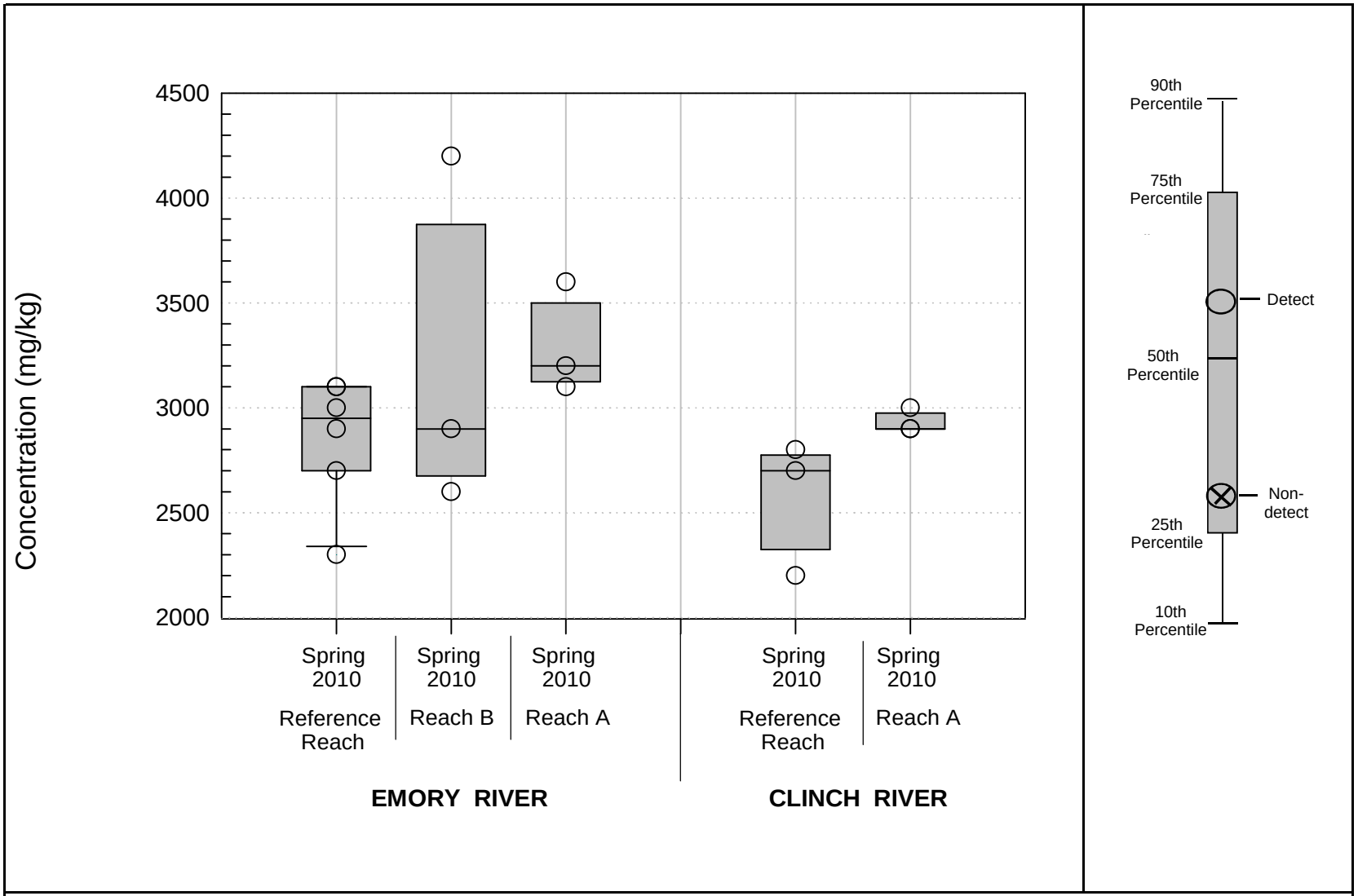
ARCADIS

Liver
Bluegill - Molybdenum
TVA Kingston



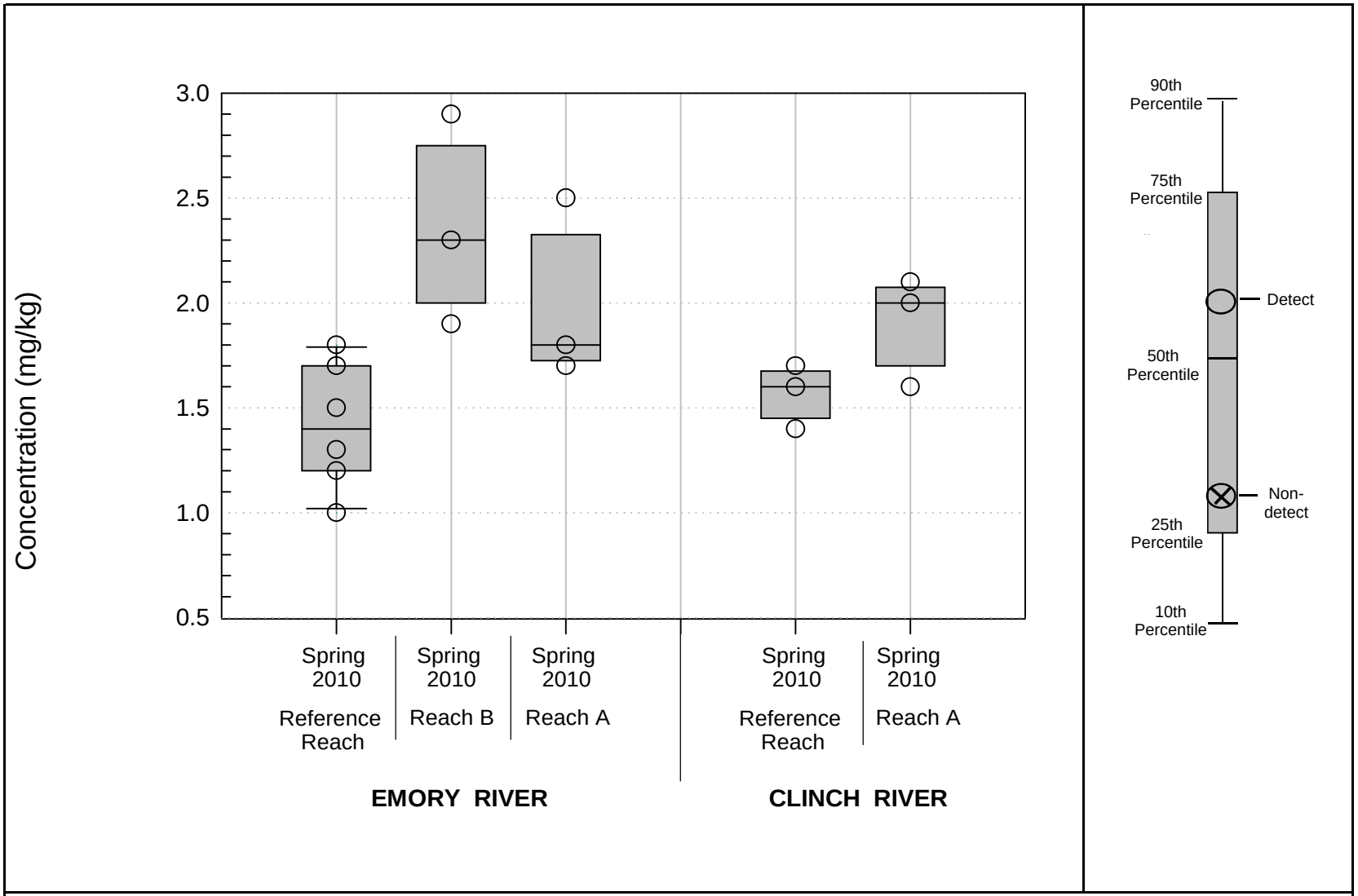
ARCADIS

Liver
Bluegill - Nickel
TVA Kingston



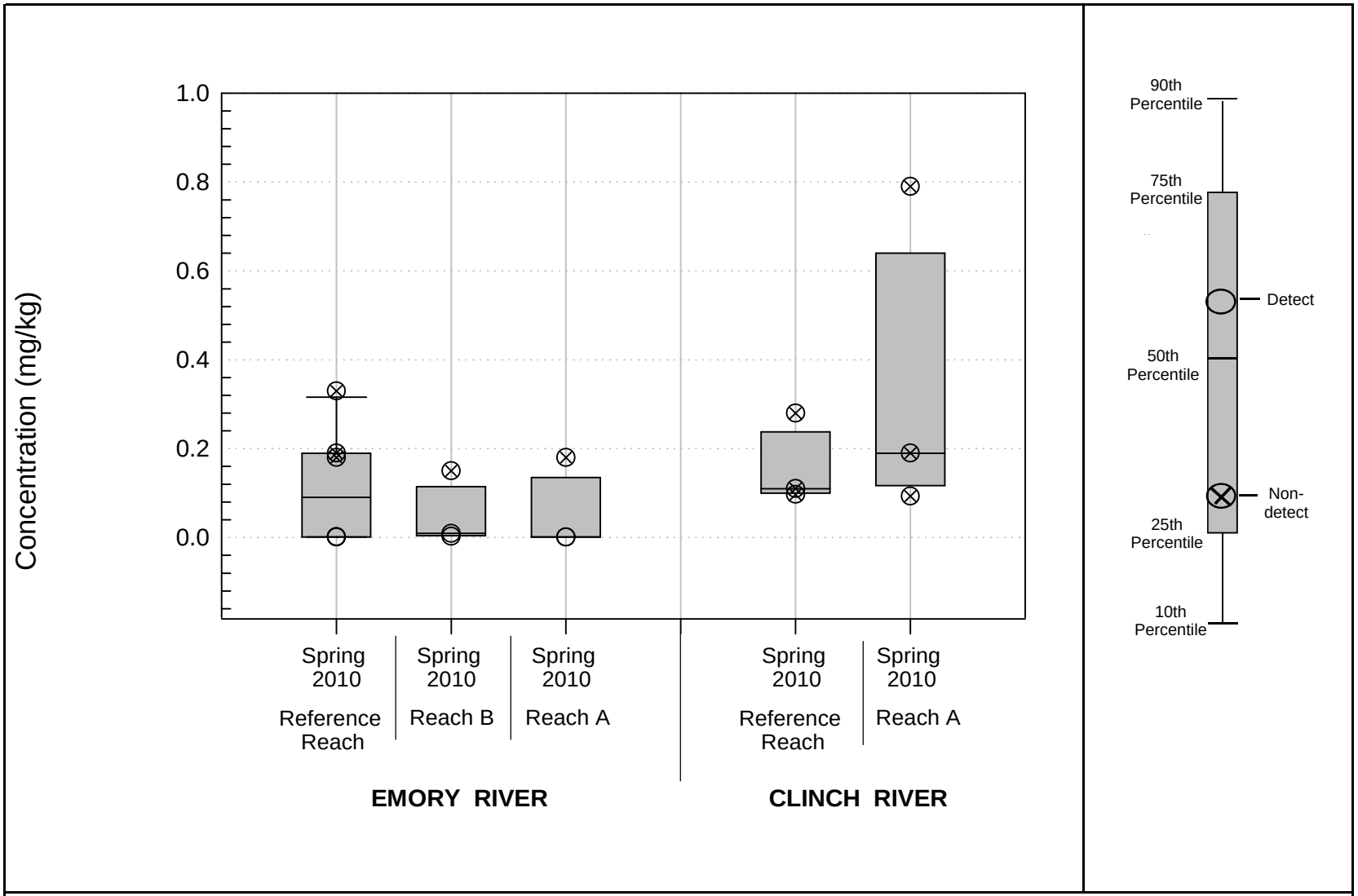
ARCADIS

Liver
Bluegill - Potassium
TVA Kingston



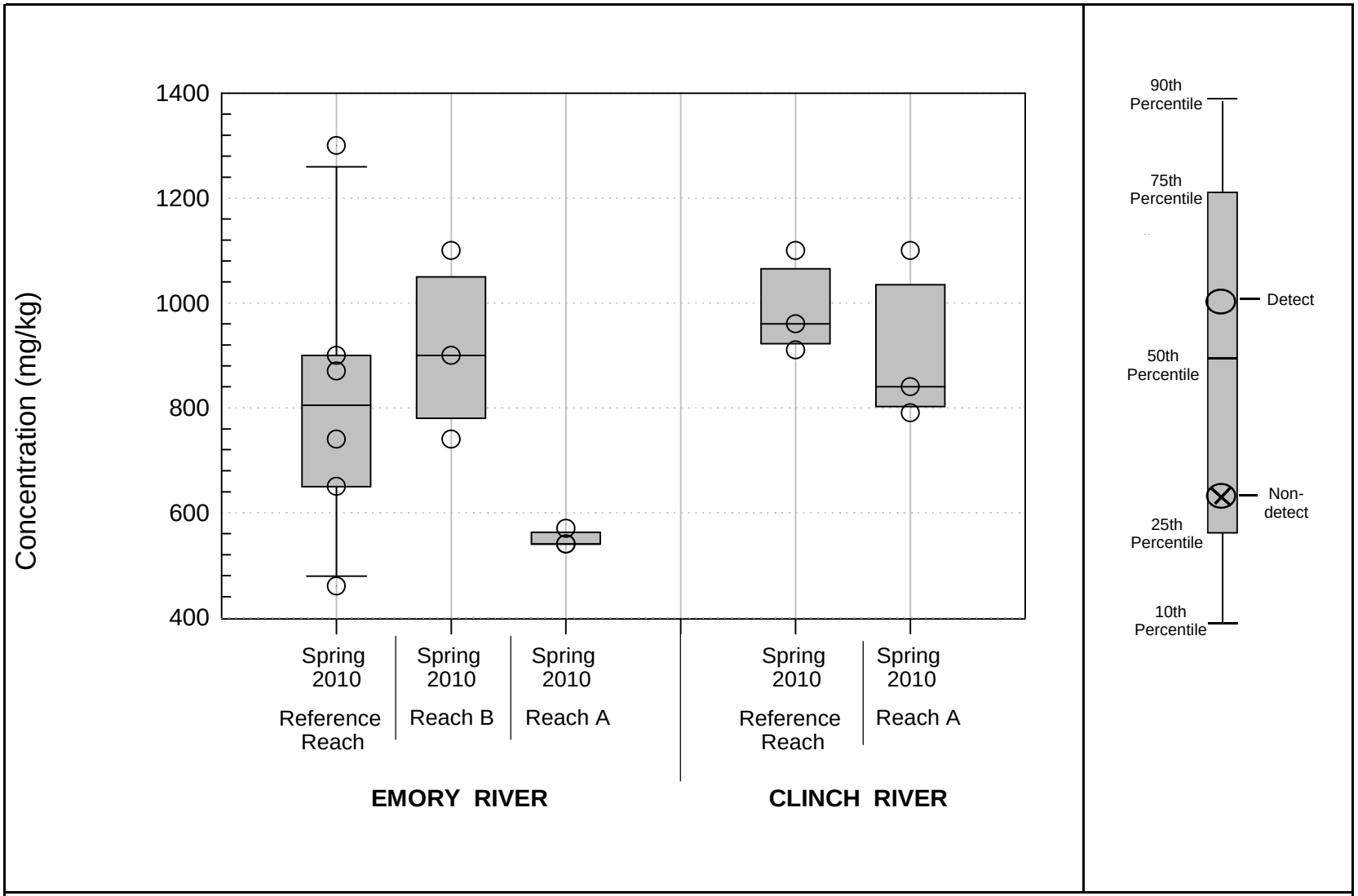
ARCADIS

Liver
Bluegill - Selenium
TVA Kingston



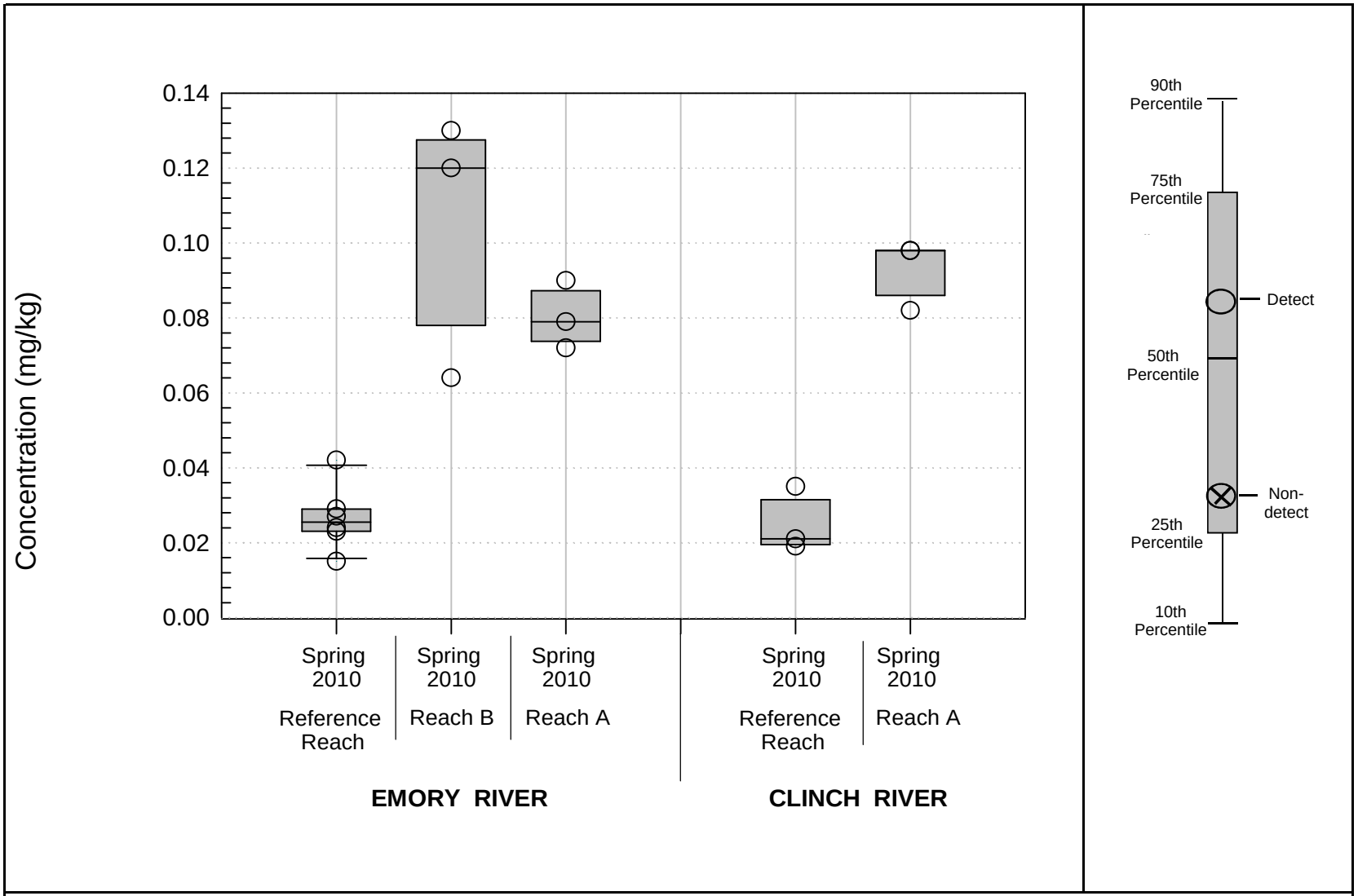
ARCADIS

Liver
Bluegill - Silver
TVA Kingston



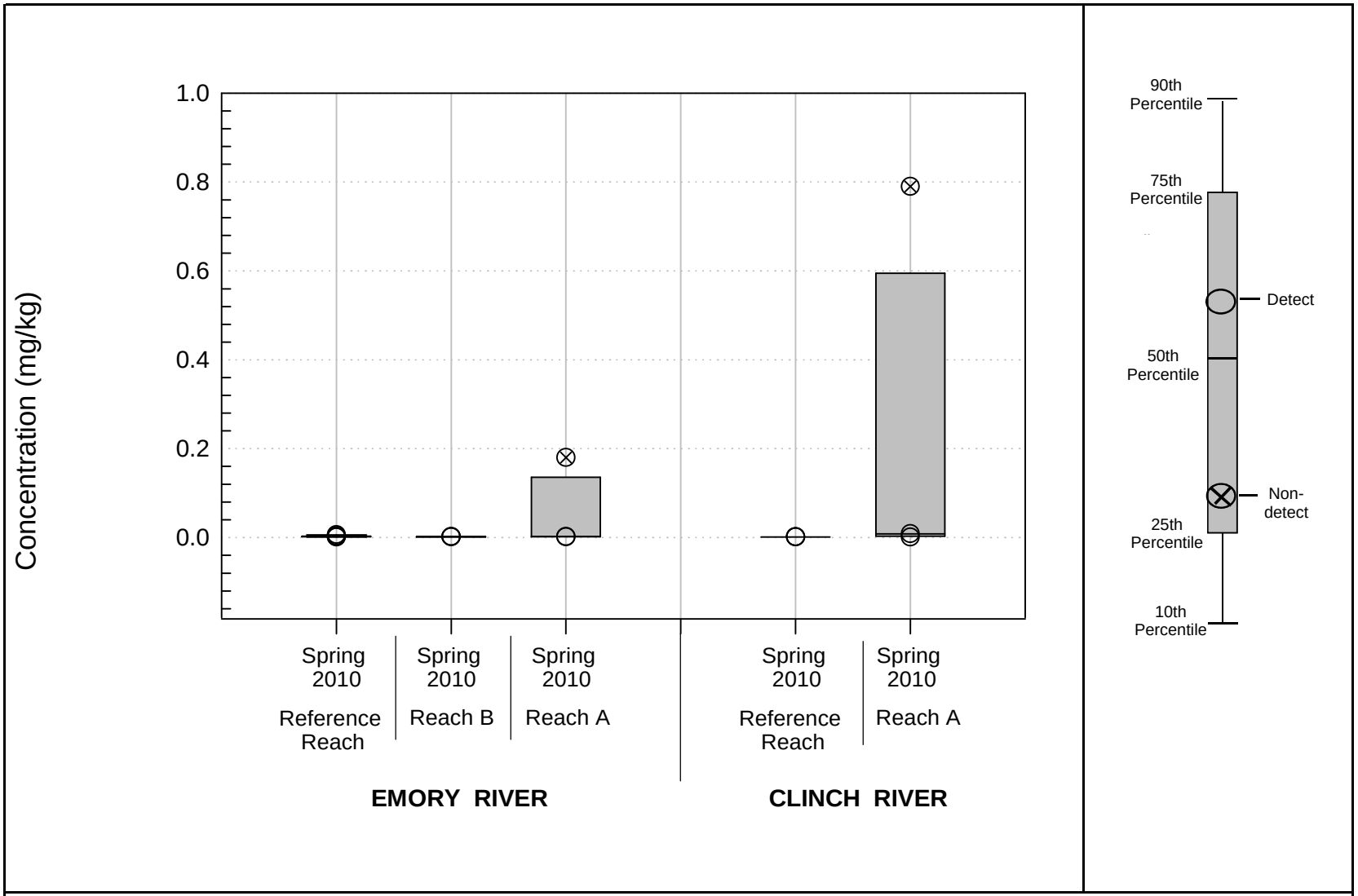
ARCADIS

Liver
Bluegill - Sodium
TVA Kingston



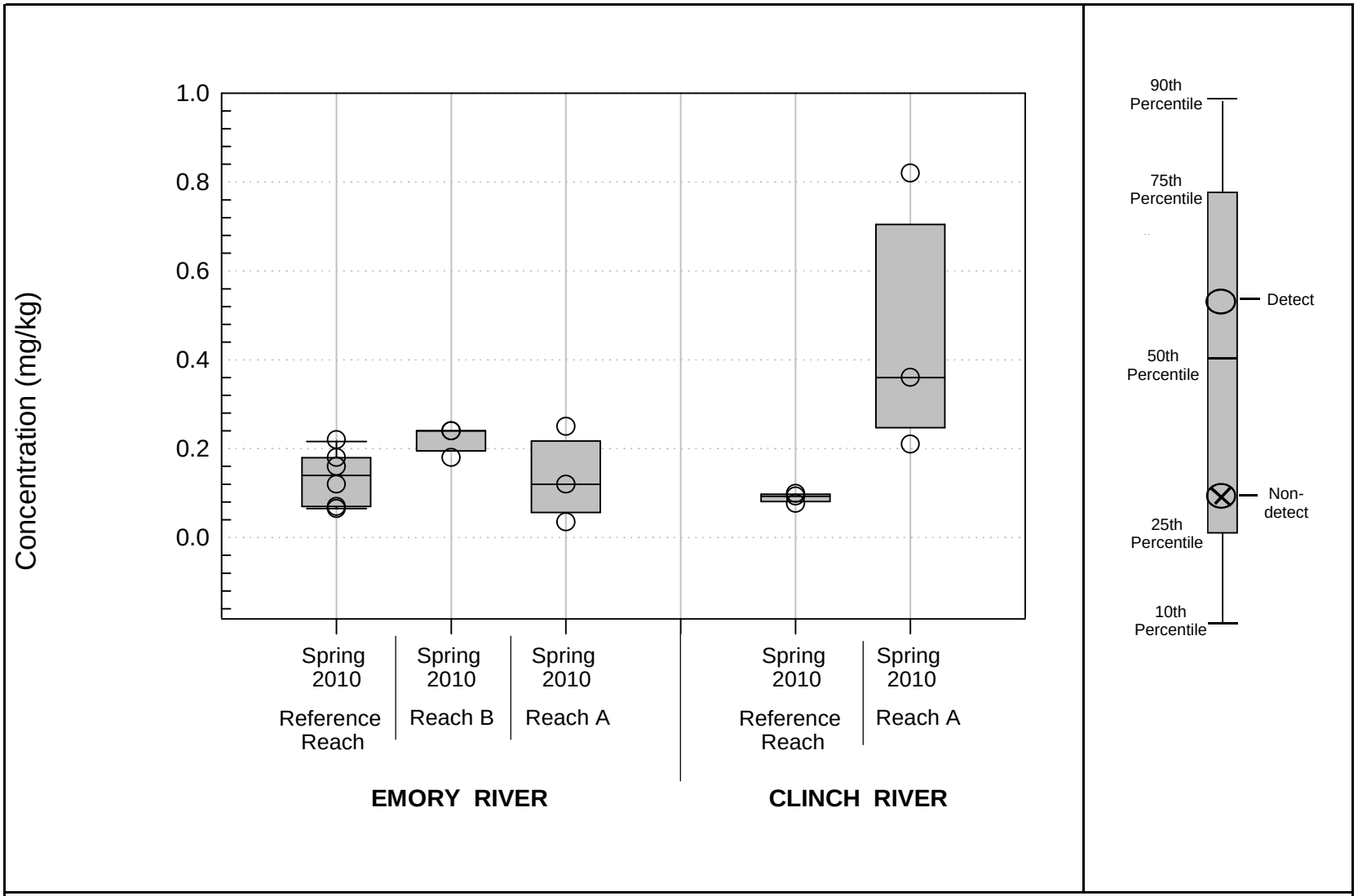
ARCADIS

Liver
Bluegill - Thallium
TVA Kingston



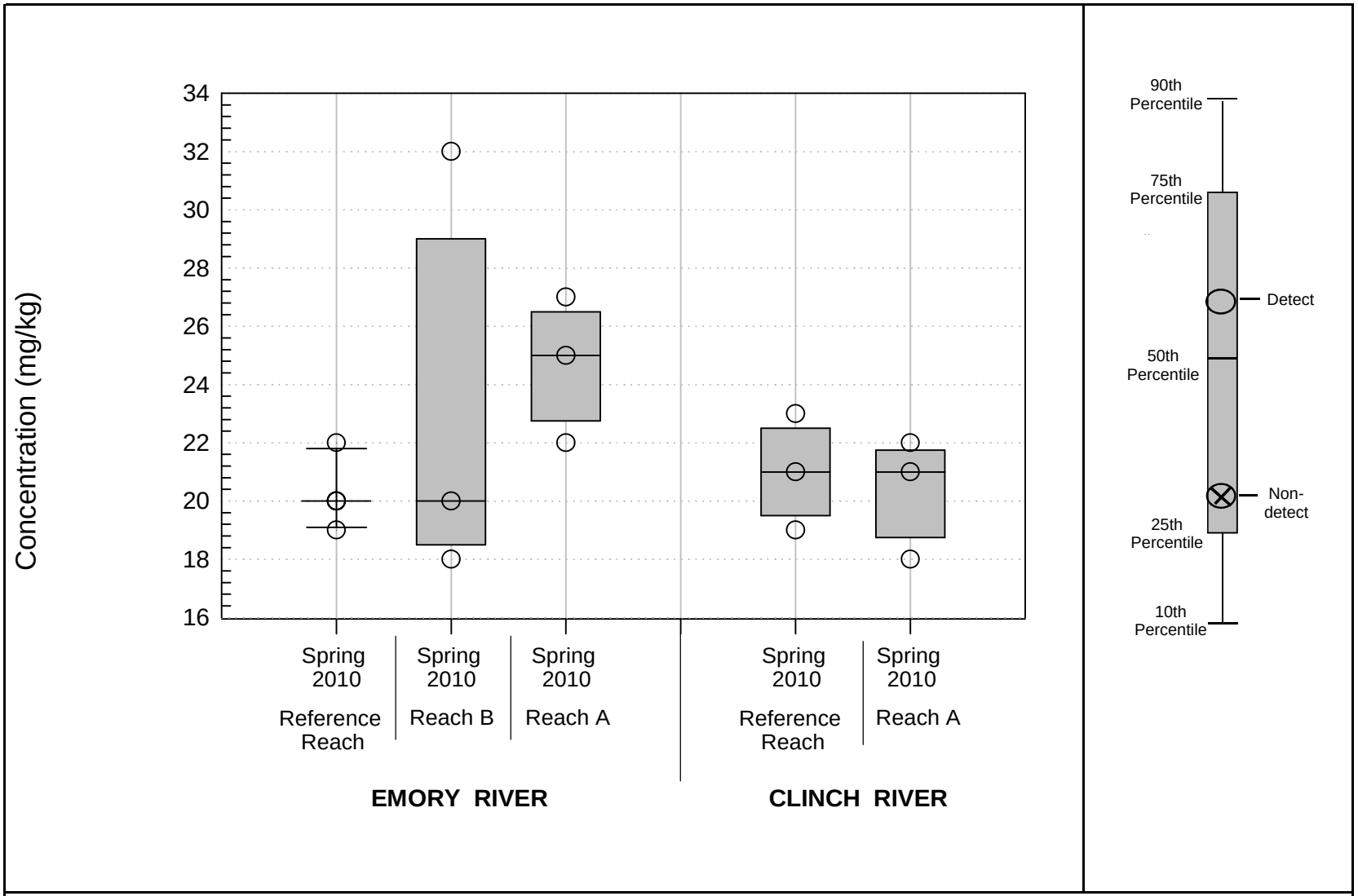
ARCADIS

Liver
Bluegill - Uranium
TVA Kingston



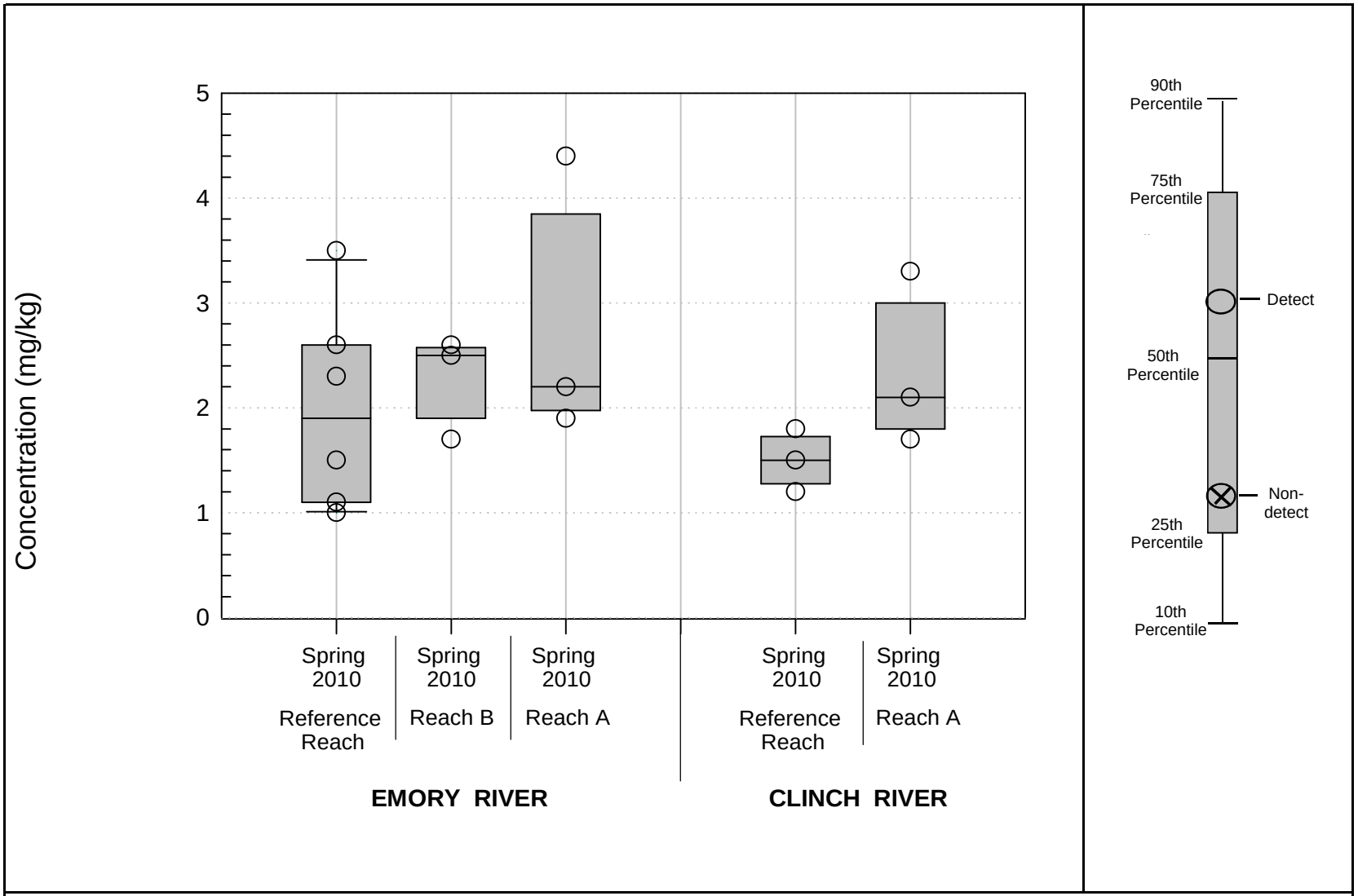
ARCADIS

Liver
Bluegill - Vanadium
TVA Kingston



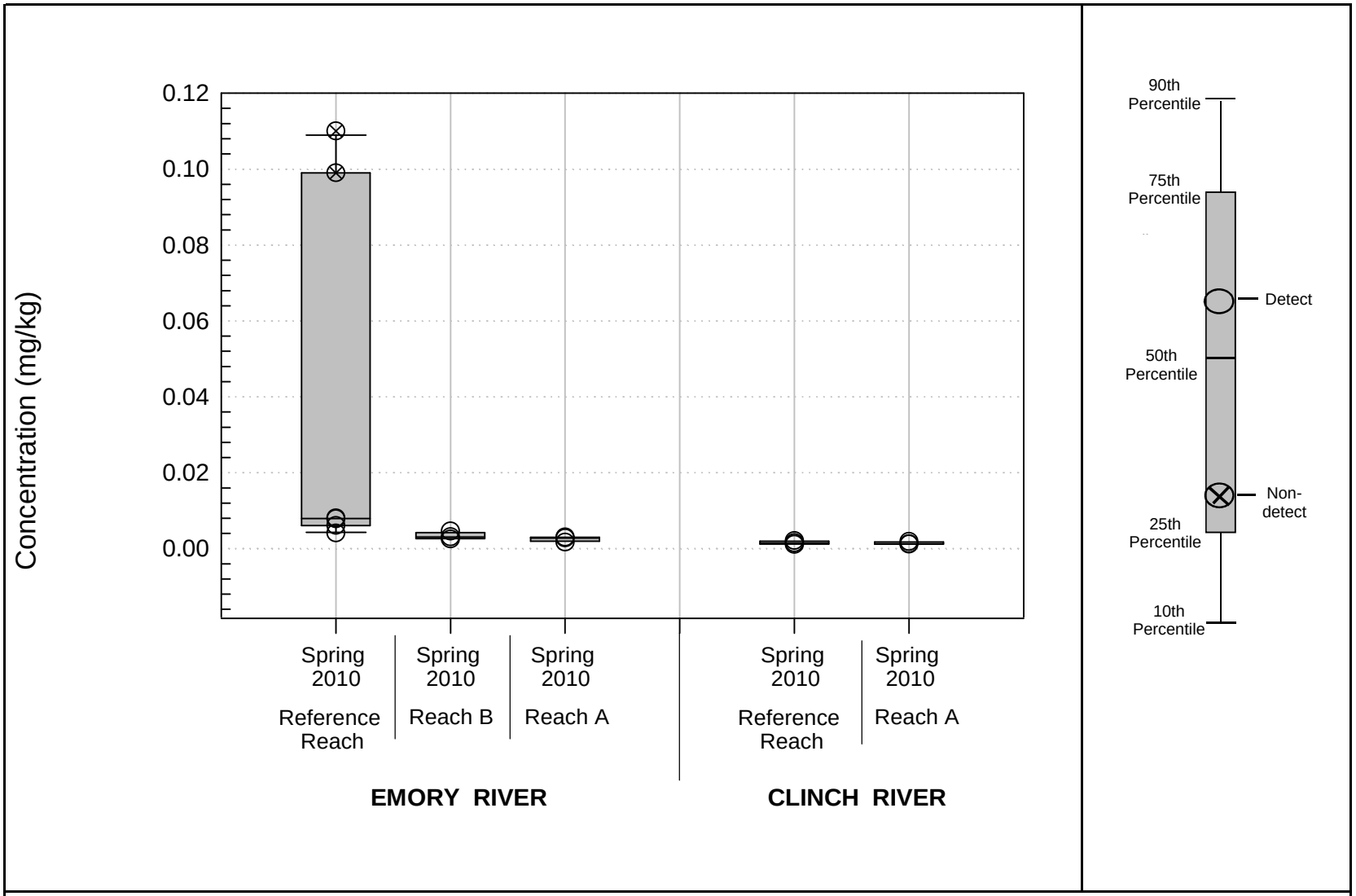
ARCADIS

Liver
Bluegill - Zinc
TVA Kingston



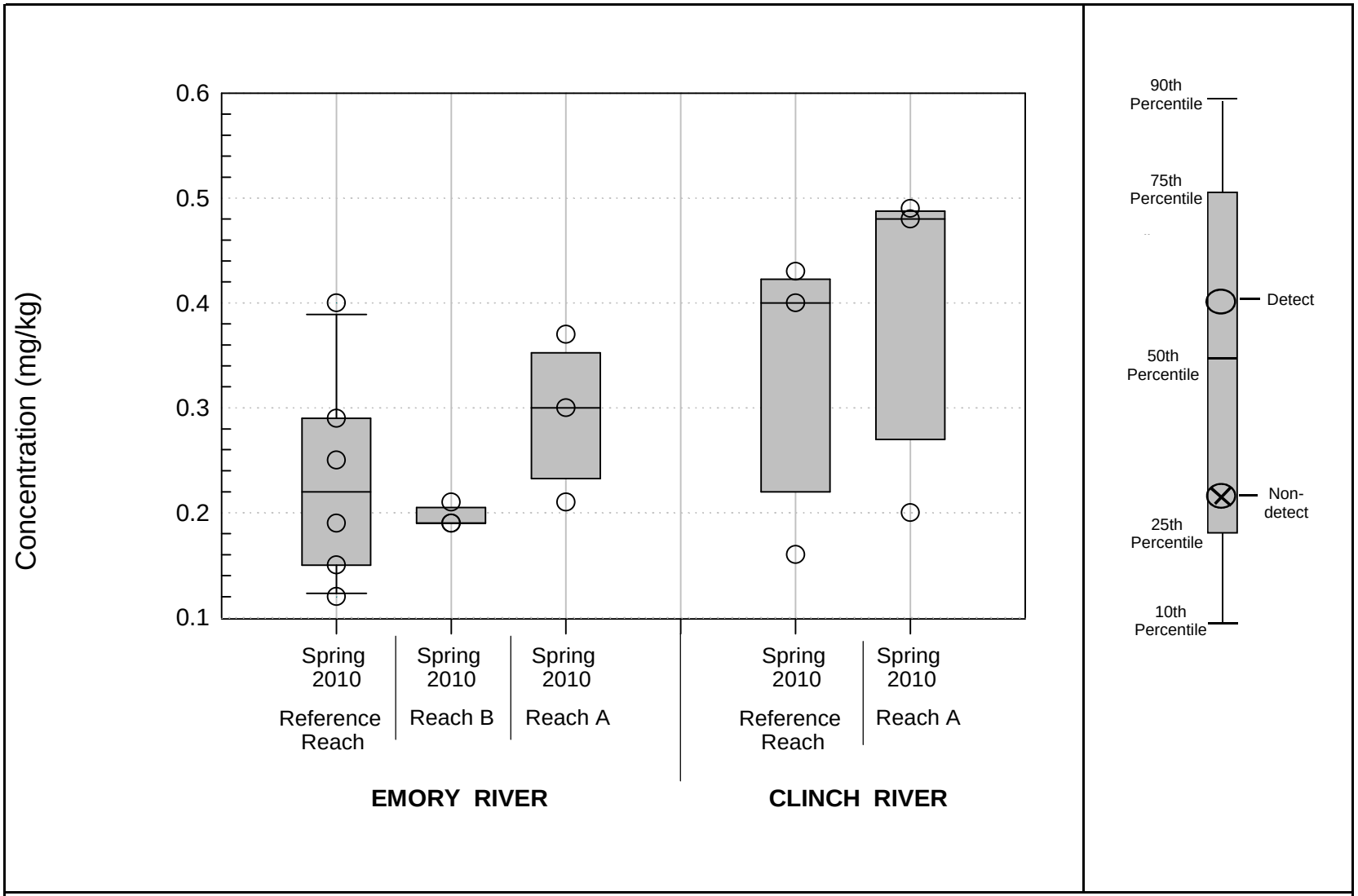
ARCADIS

Liver
Largemouth Bass - Aluminum
TVA Kingston



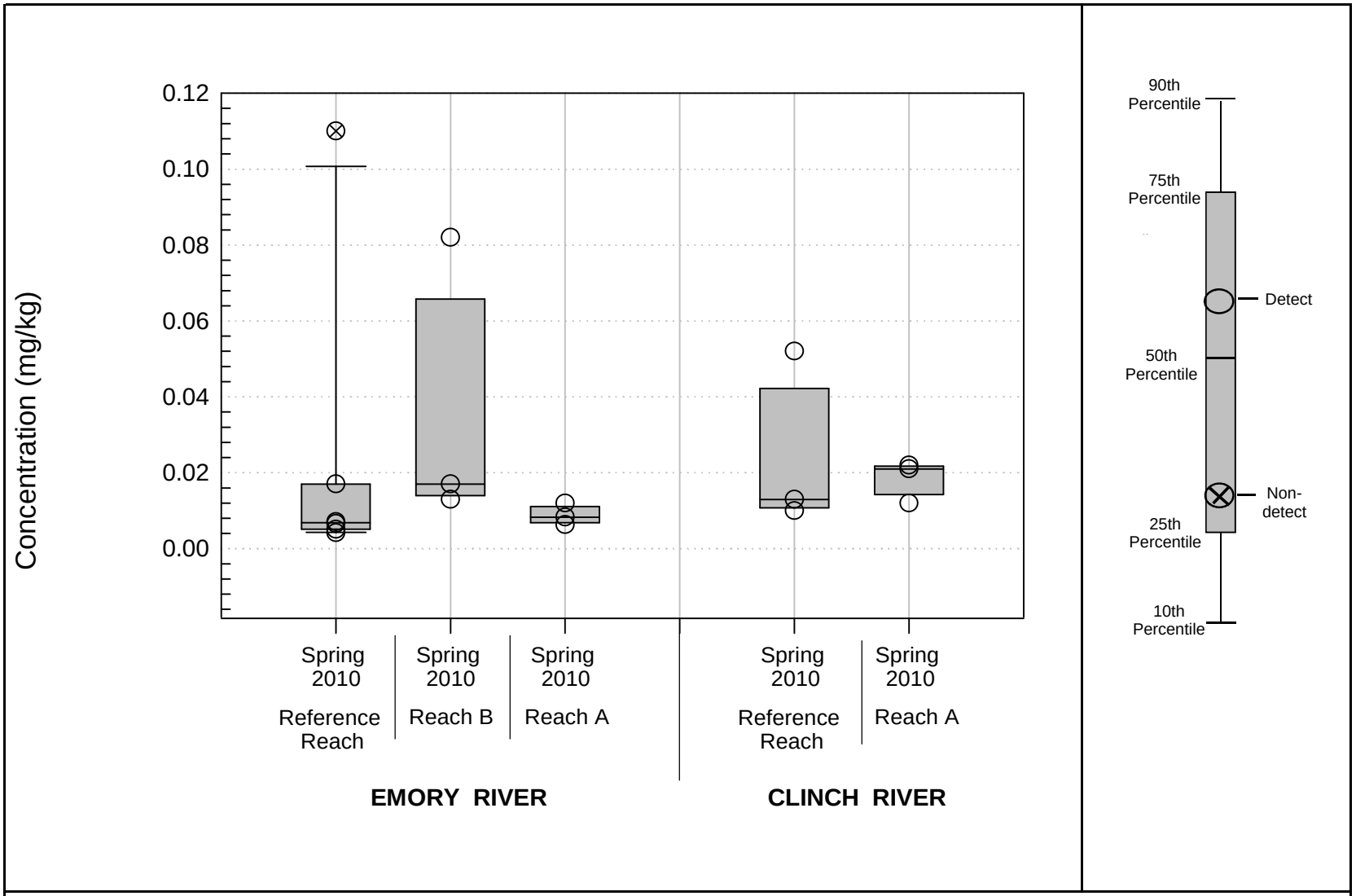
ARCADIS

Liver
Largemouth Bass - Antimony
TVA Kingston



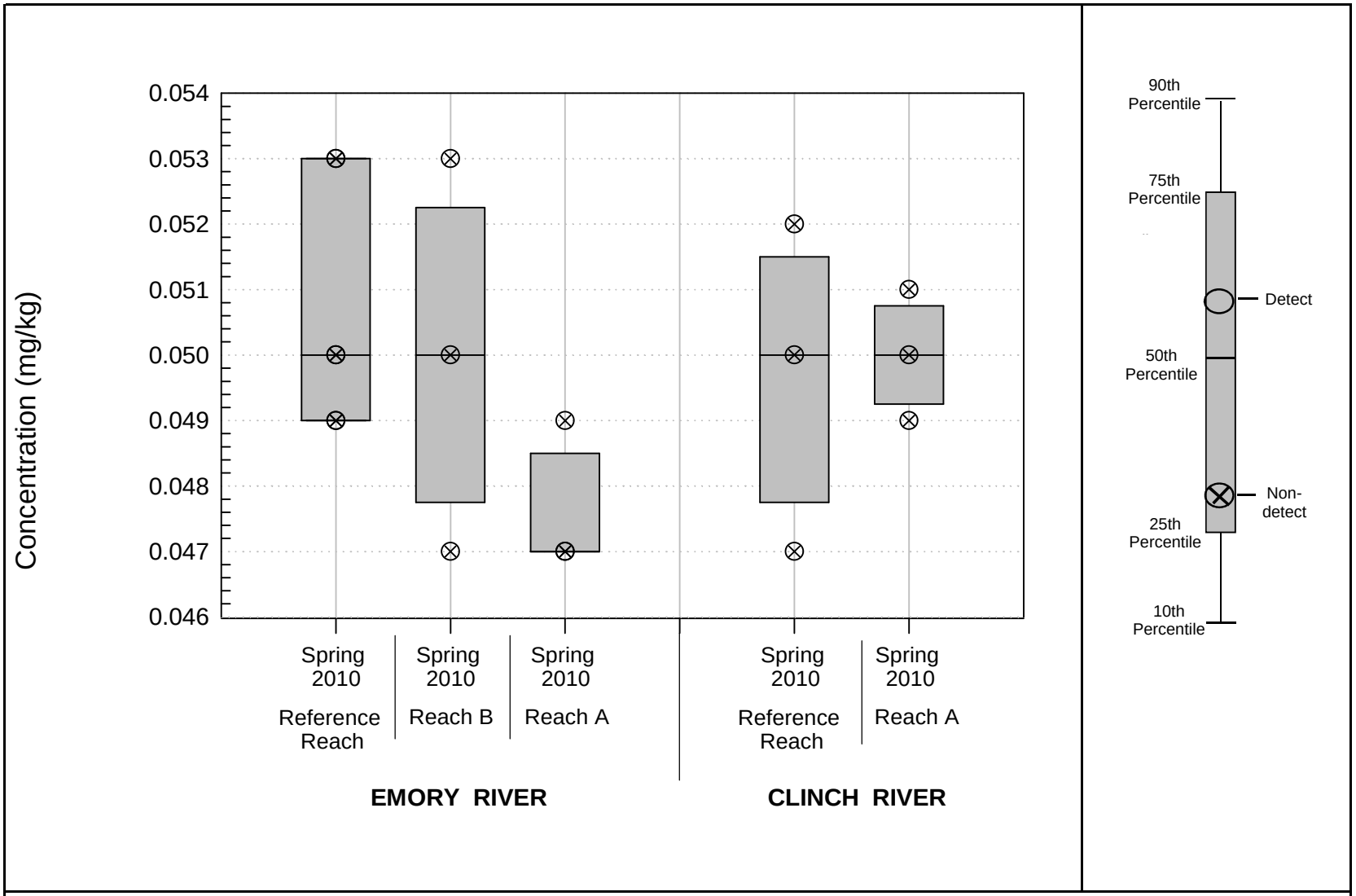
ARCADIS

Liver
Largemouth Bass - Arsenic
TVA Kingston



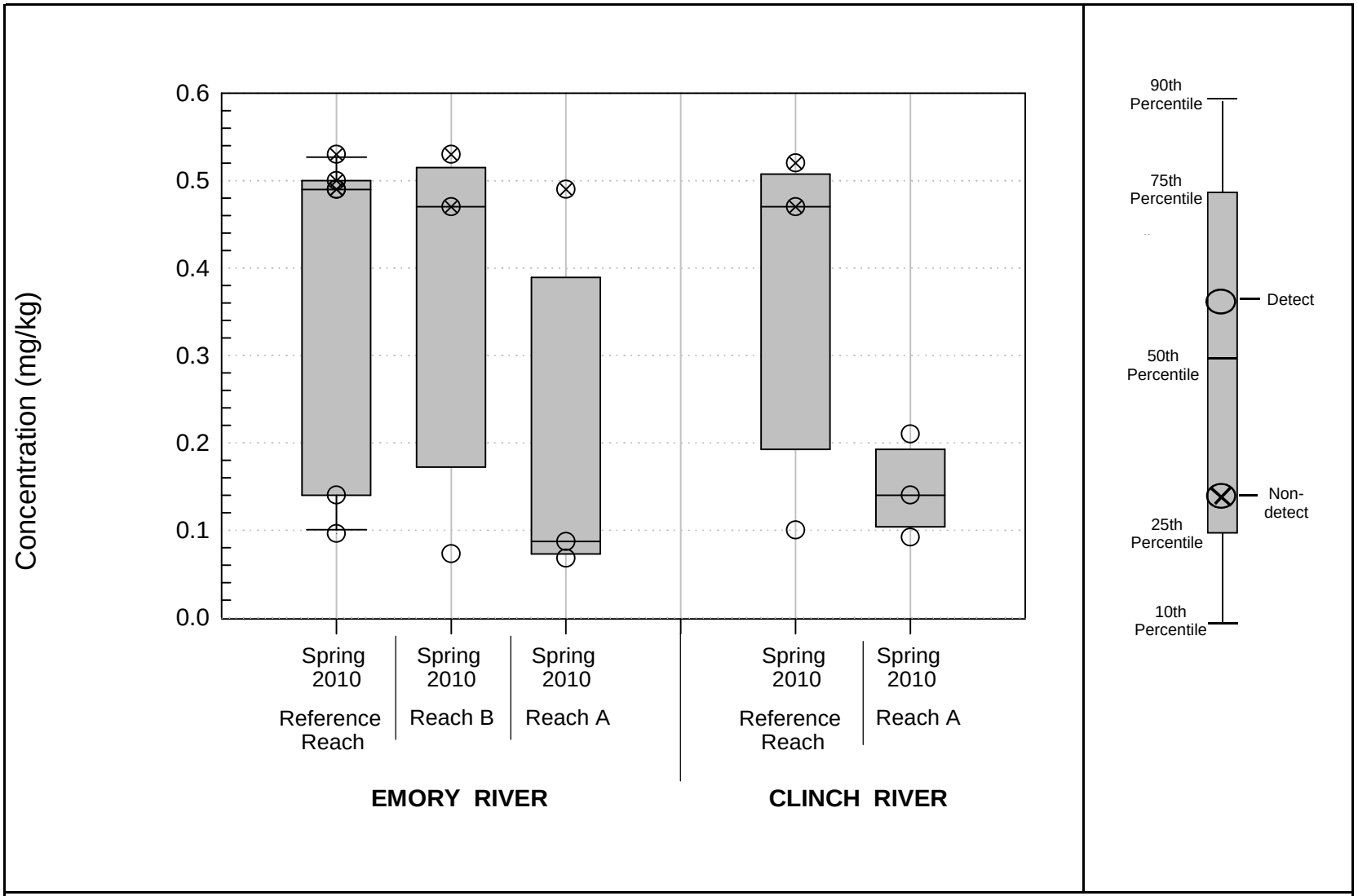
ARCADIS

Liver
Largemouth Bass - Barium
TVA Kingston



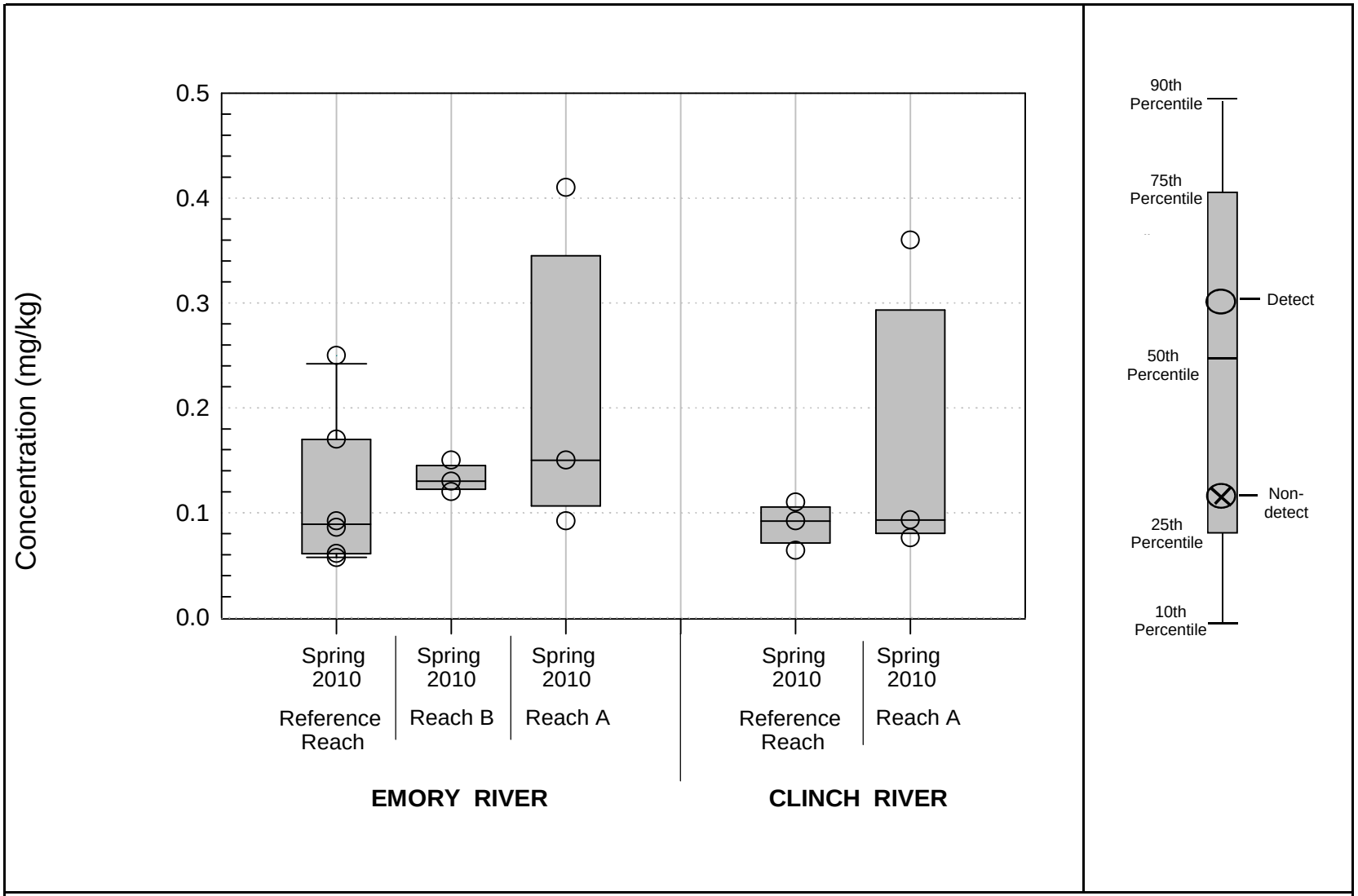
ARCADIS

Liver
Largemouth Bass - Beryllium
TVA Kingston



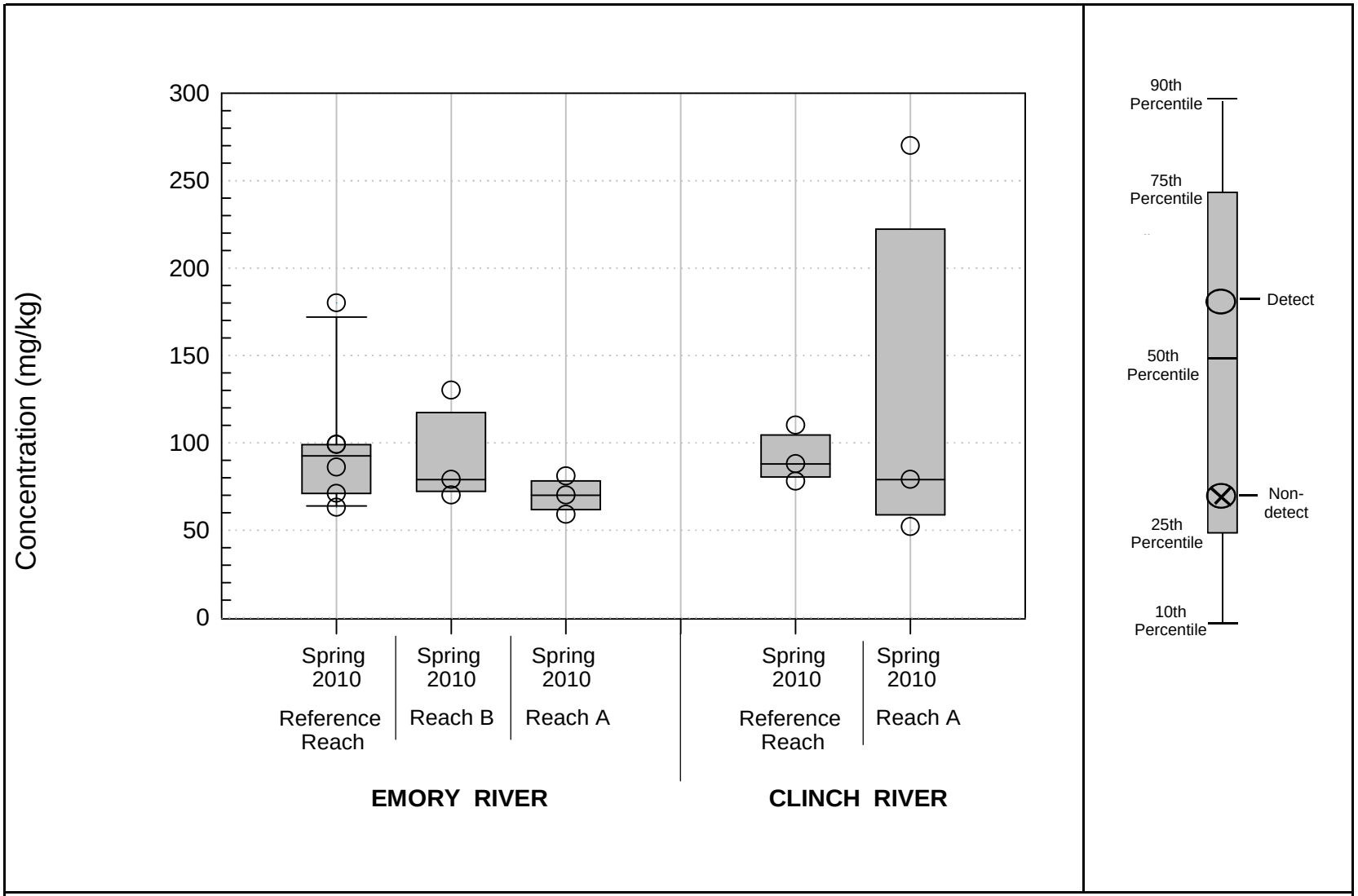
ARCADIS

Liver
Largemouth Bass - Boron
TVA Kingston



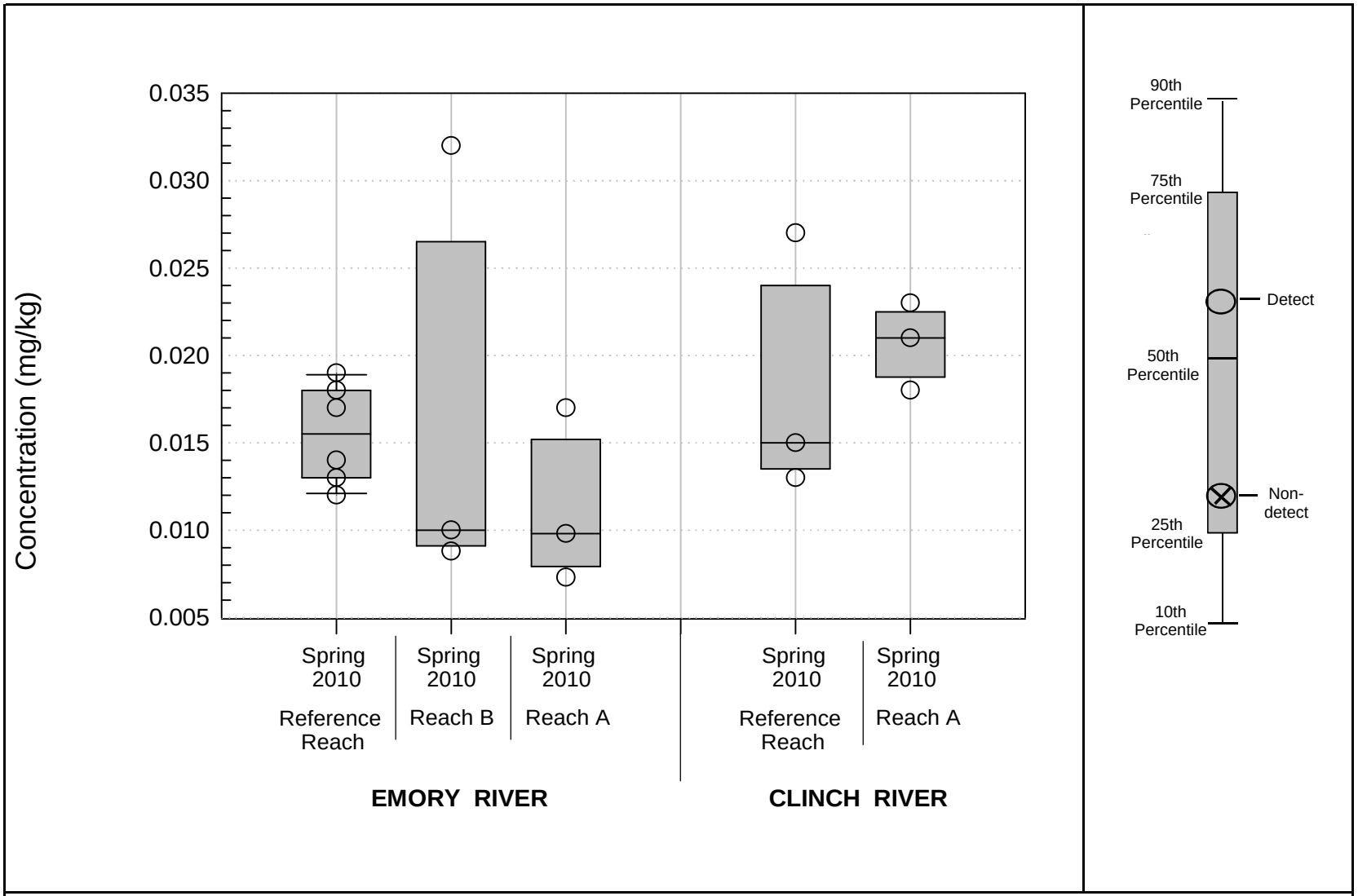
ARCADIS

Liver
Largemouth Bass - Cadmium
TVA Kingston



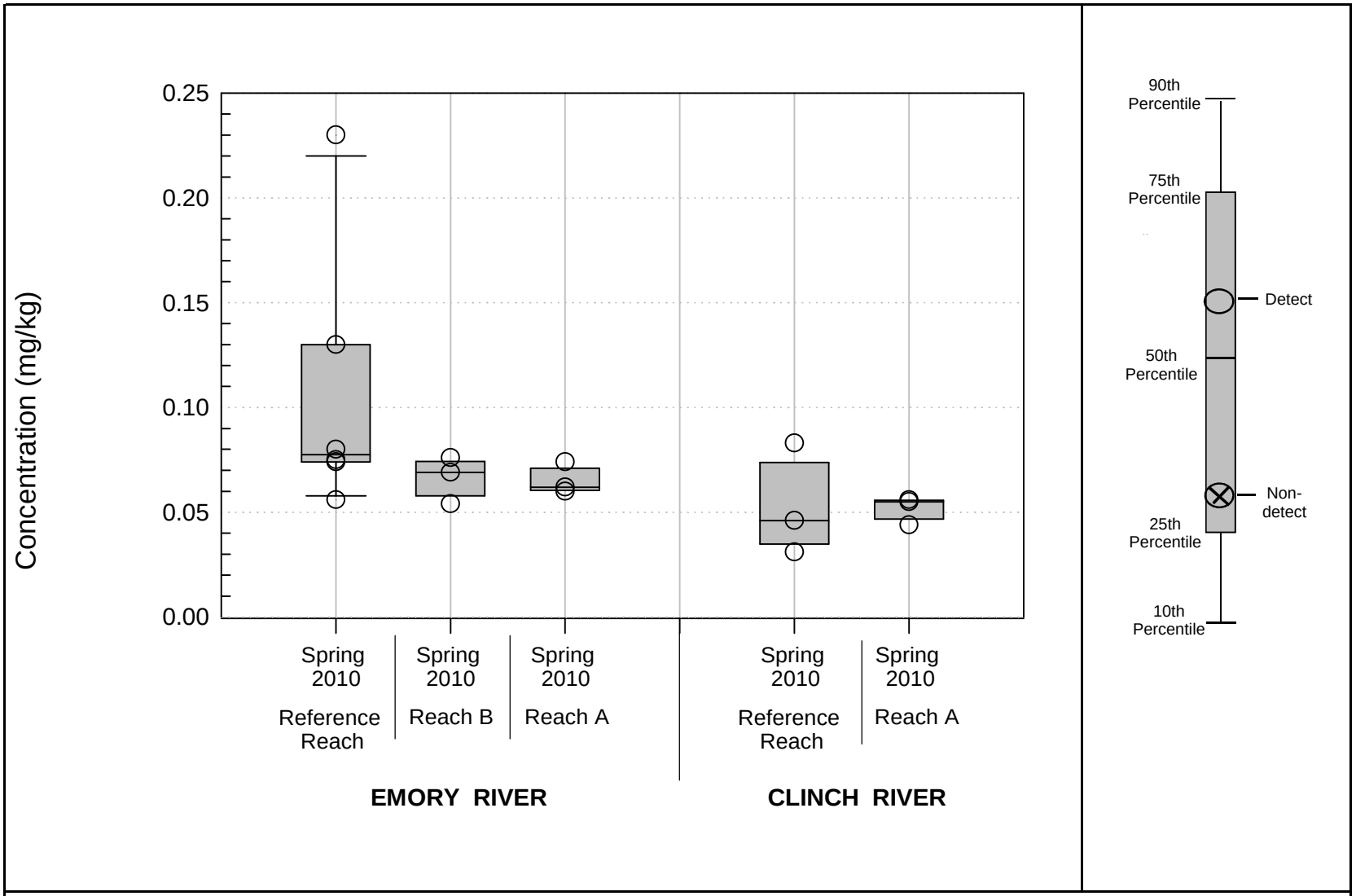
ARCADIS

Liver
Largemouth Bass - Calcium
TVA Kingston



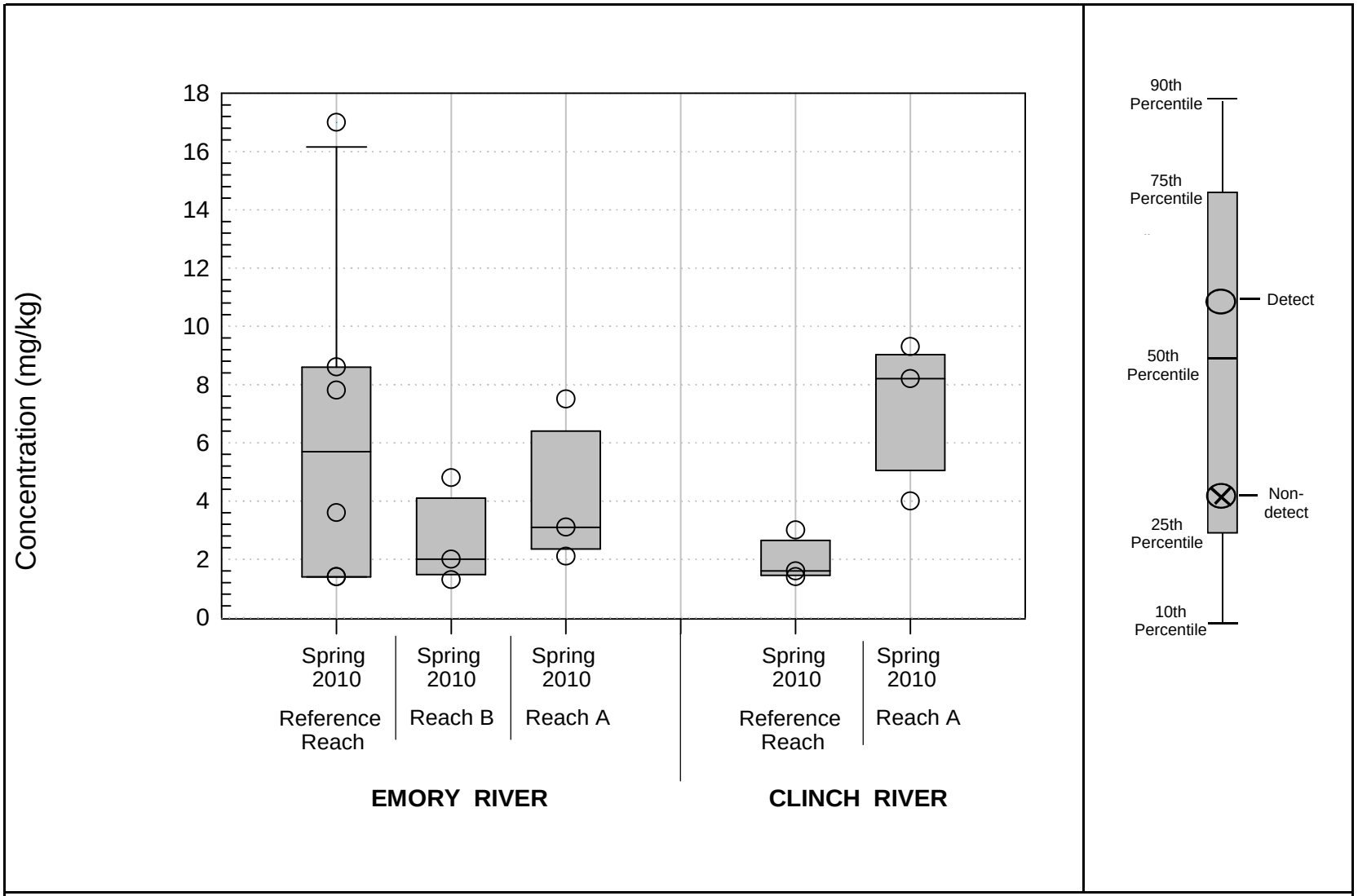
ARCADIS

Liver
Largemouth Bass - Chromium
TVA Kingston



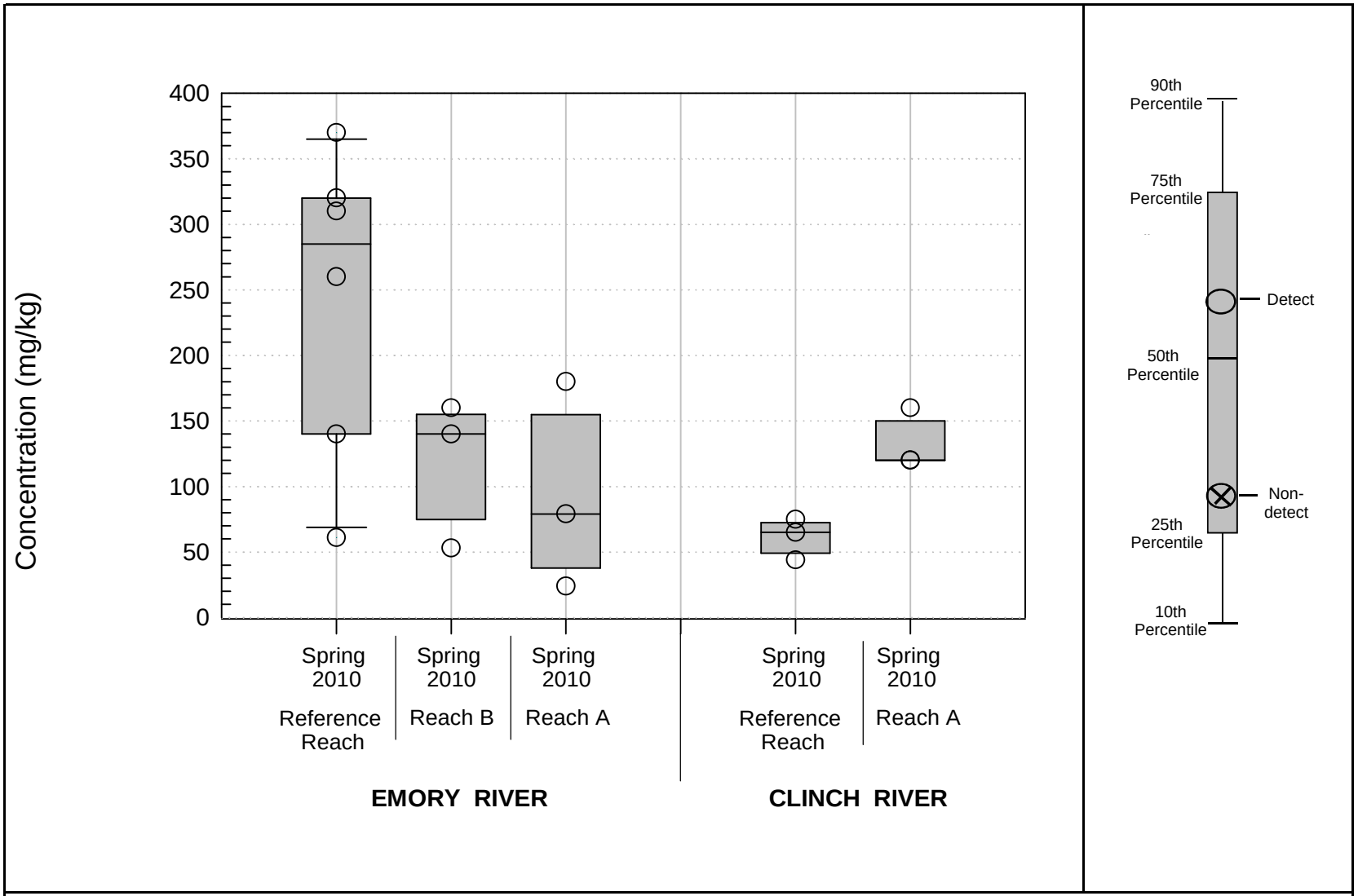
ARCADIS

Liver
Largemouth Bass - Cobalt
TVA Kingston



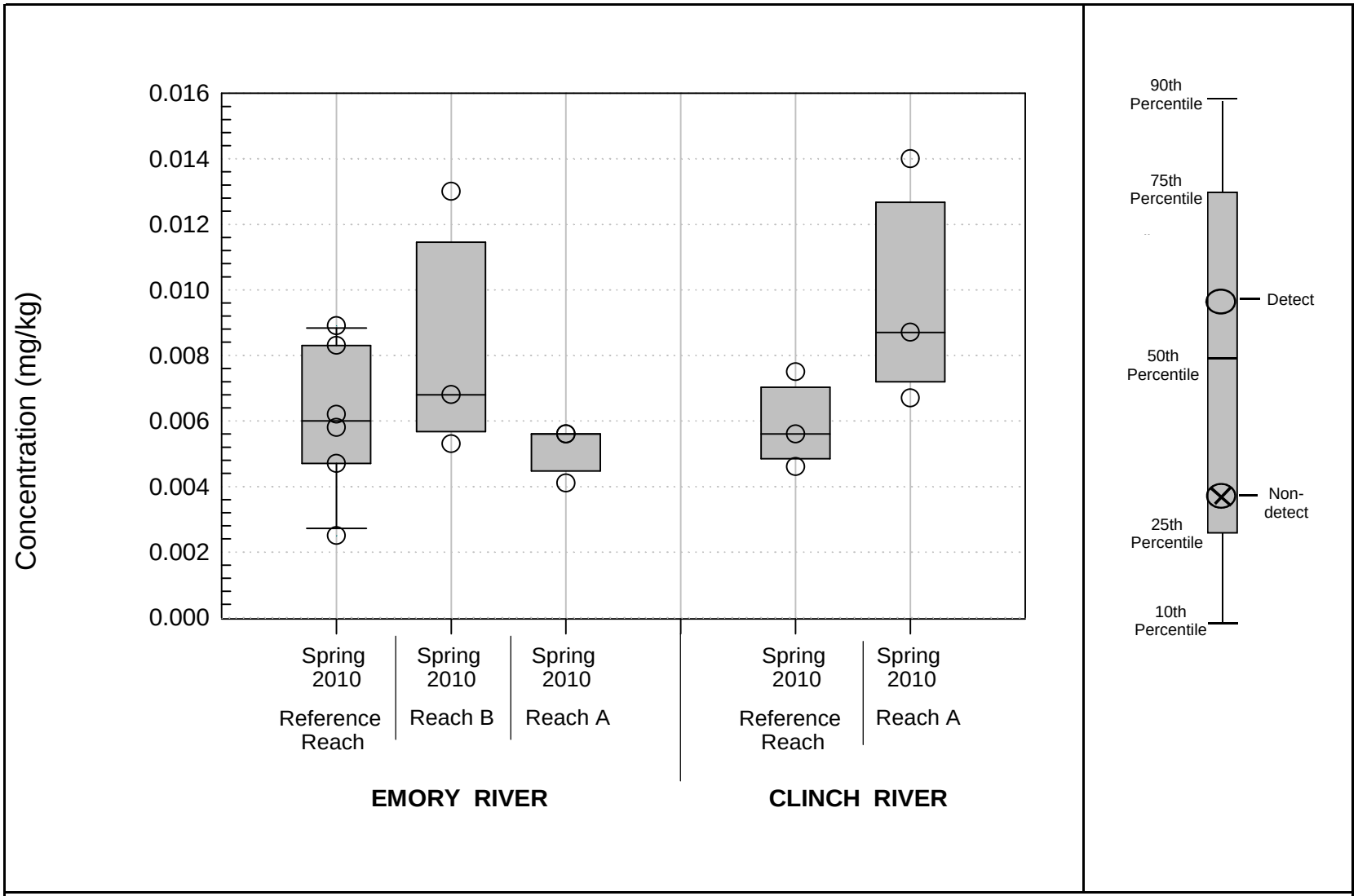
ARCADIS

Liver
Largemouth Bass - Copper
TVA Kingston



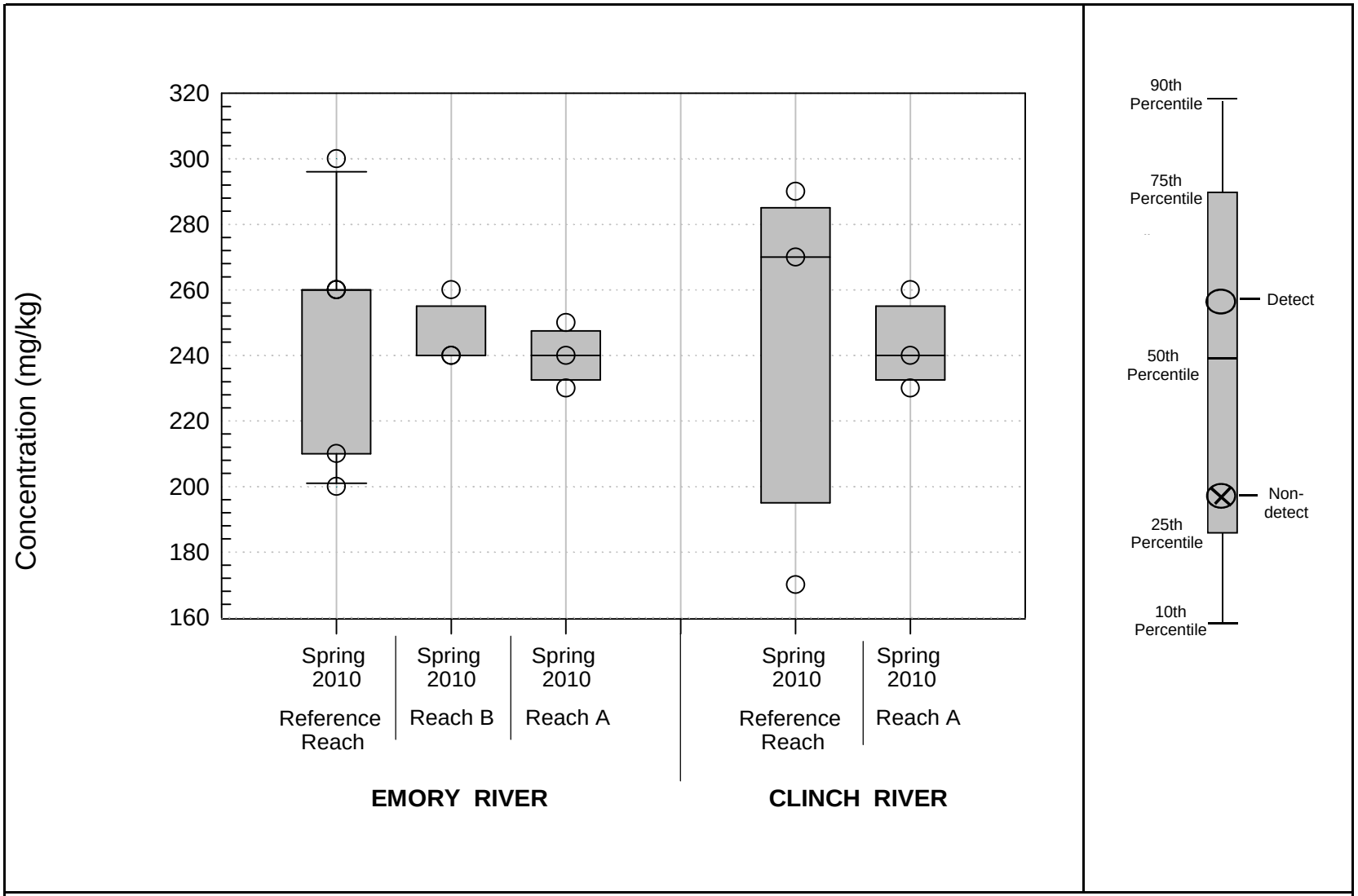
ARCADIS

Liver
Largemouth Bass - Iron
TVA Kingston



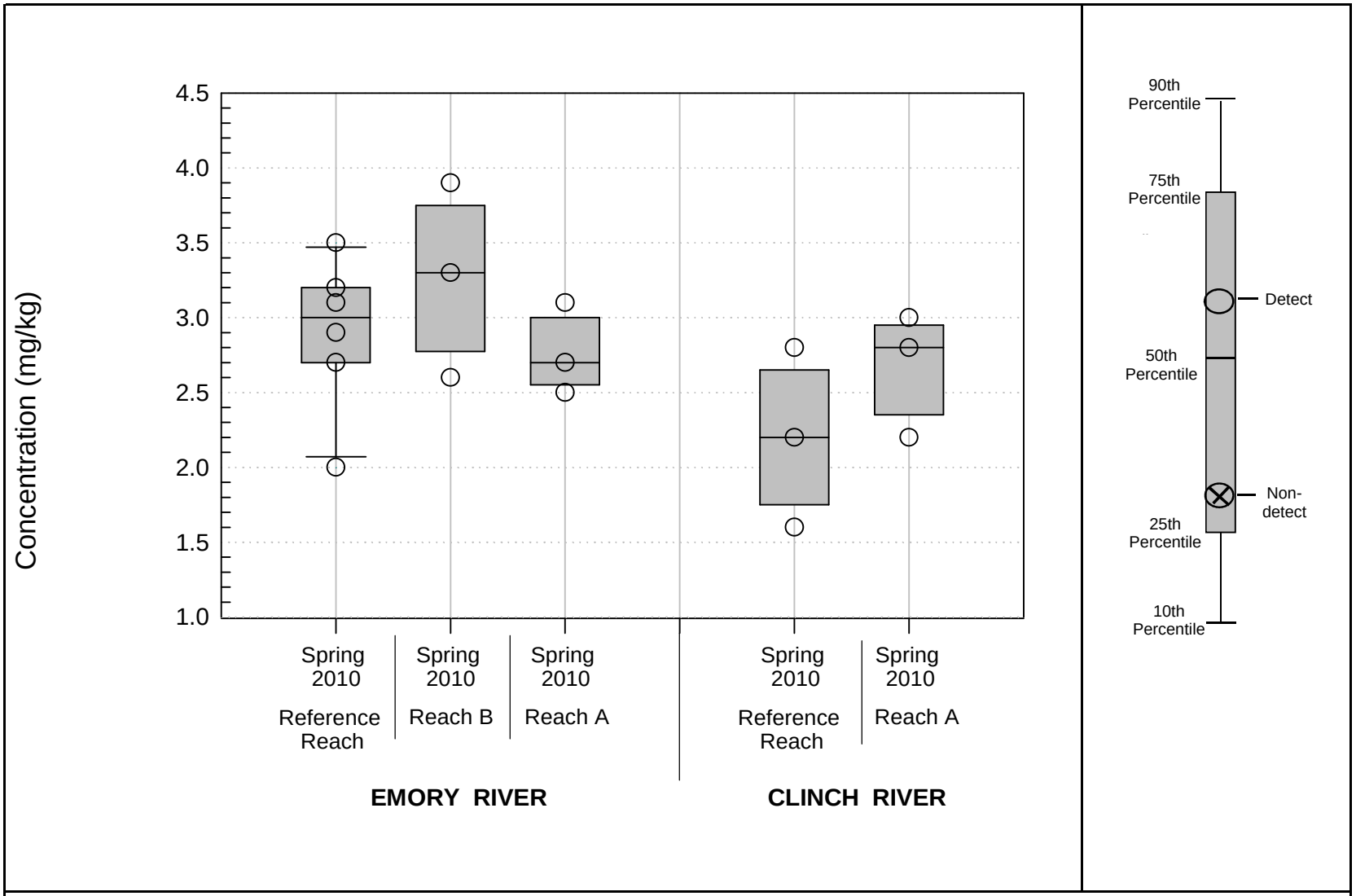
ARCADIS

Liver
Largemouth Bass - Lead
TVA Kingston



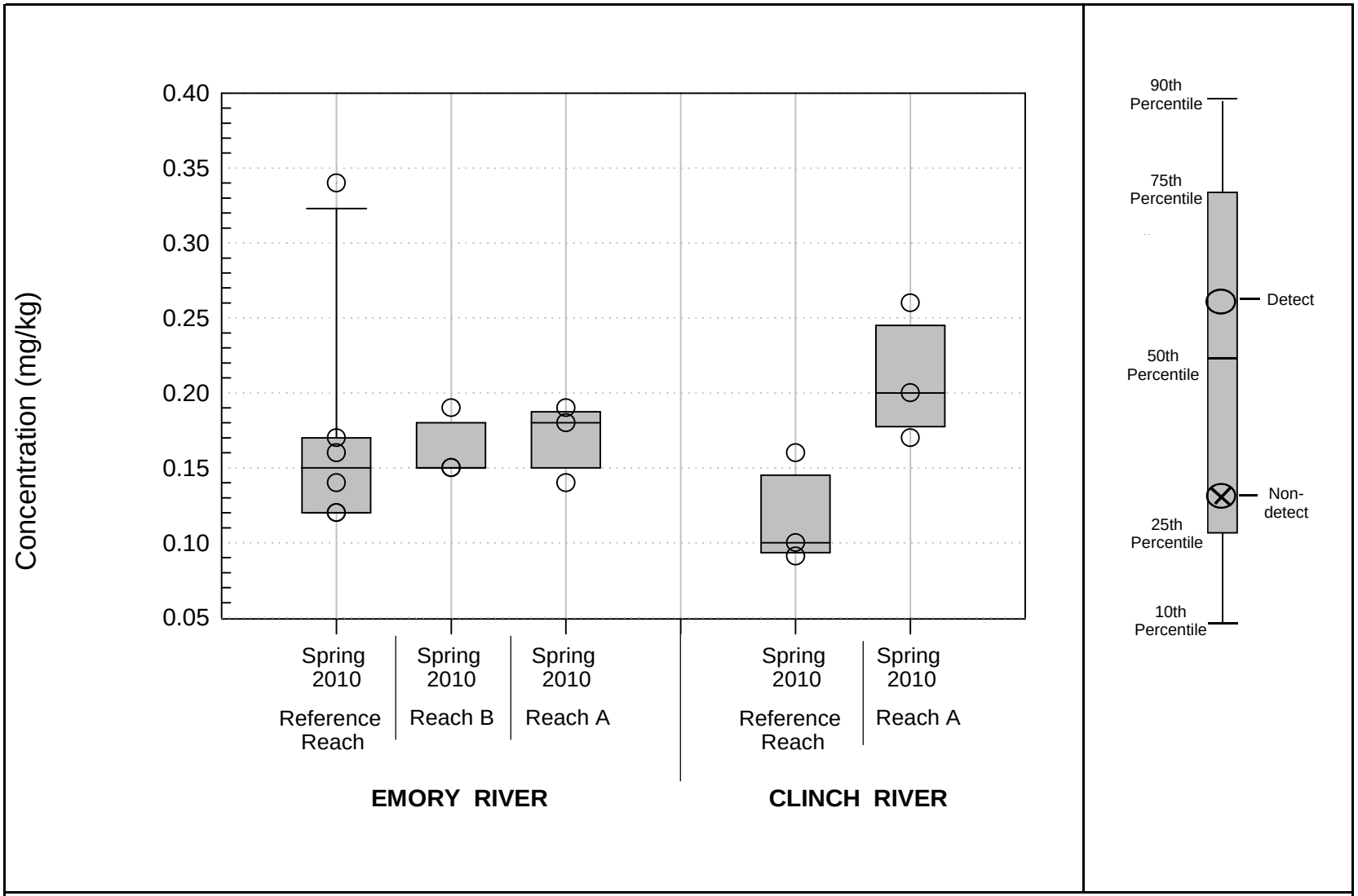
ARCADIS

Liver
Largemouth Bass - Magnesium
TVA Kingston



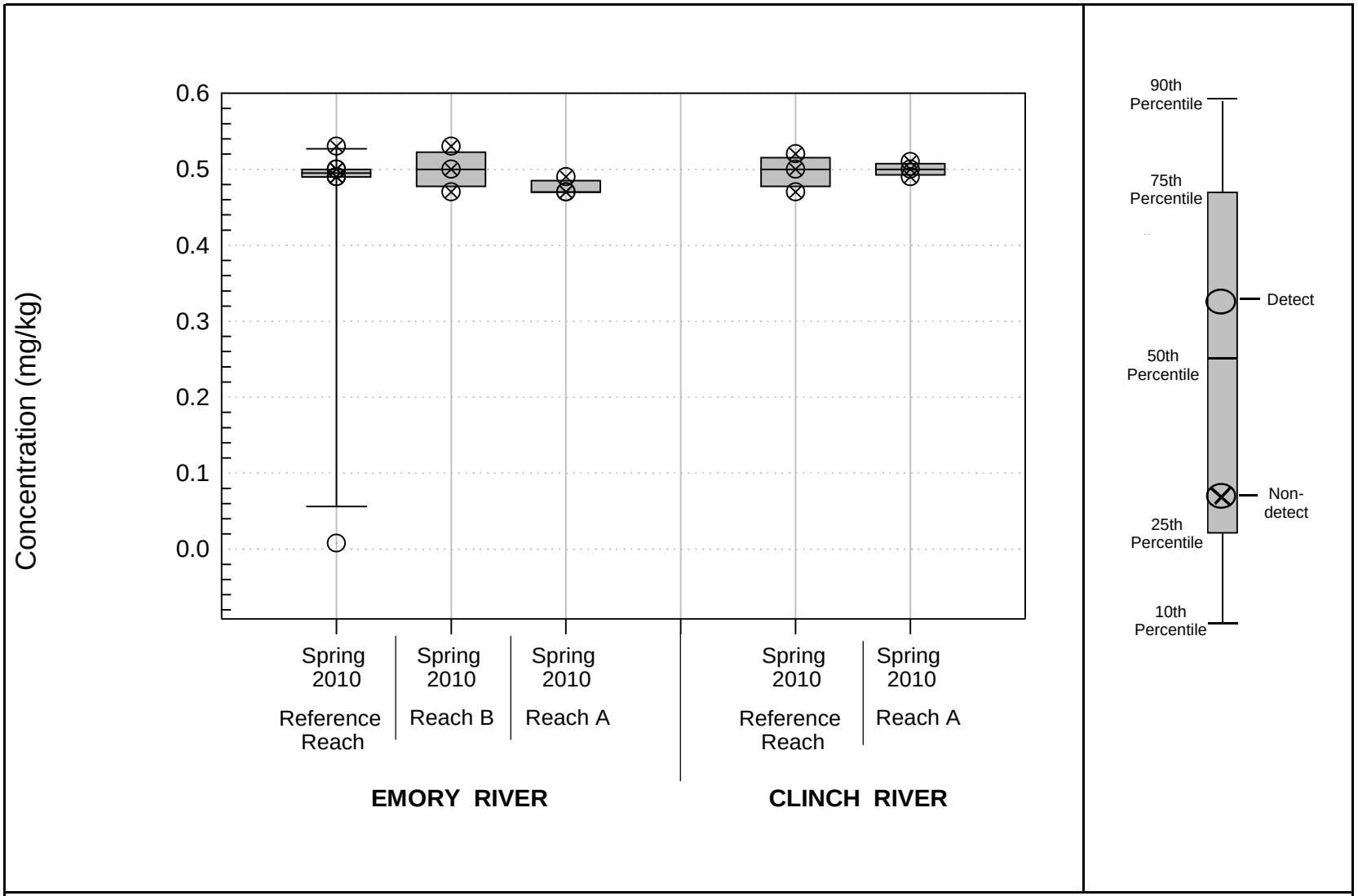
ARCADIS

Liver
Largemouth Bass - Manganese
TVA Kingston



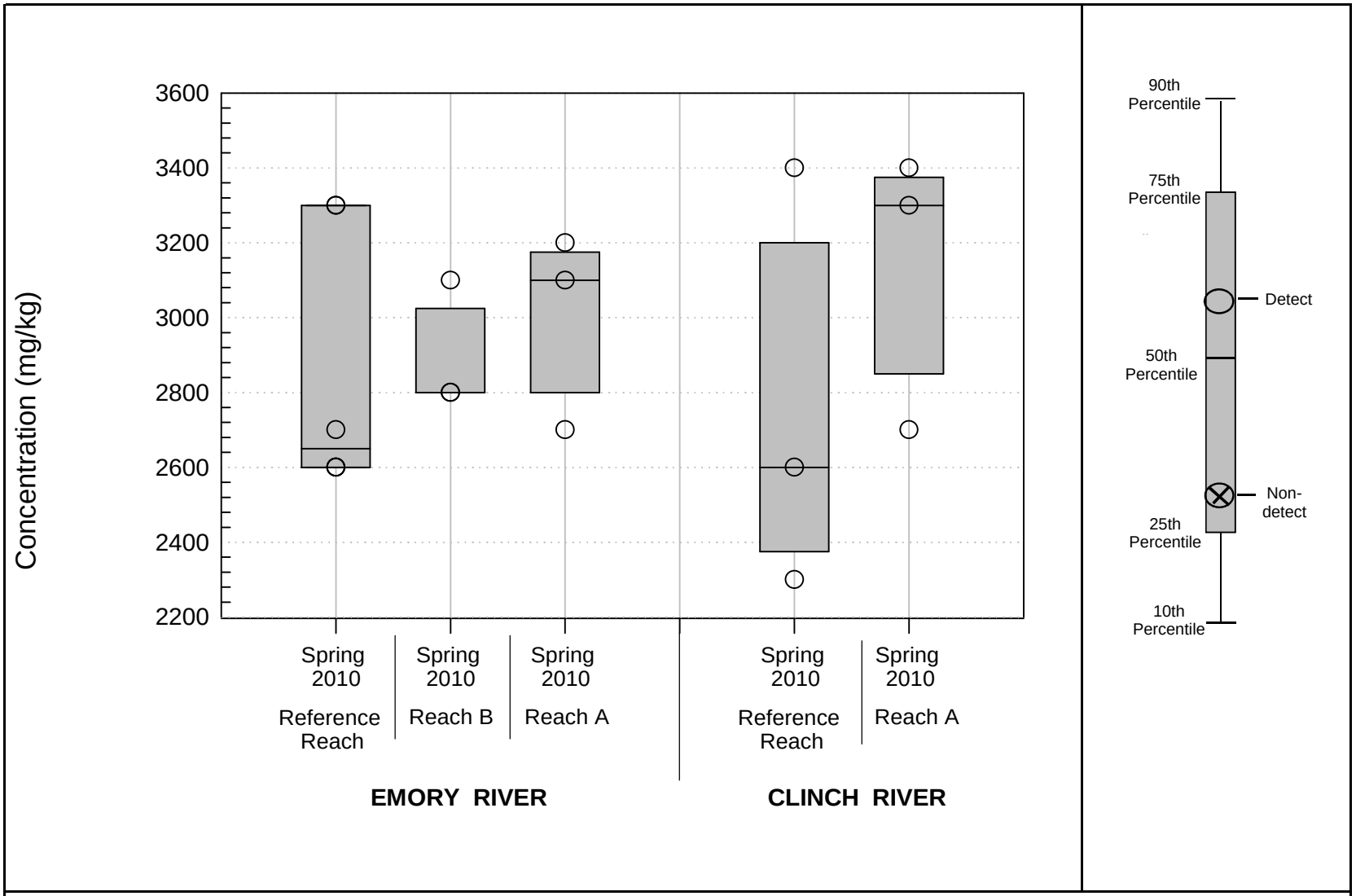
ARCADIS

Liver
Largemouth Bass - Molybdenum
TVA Kingston



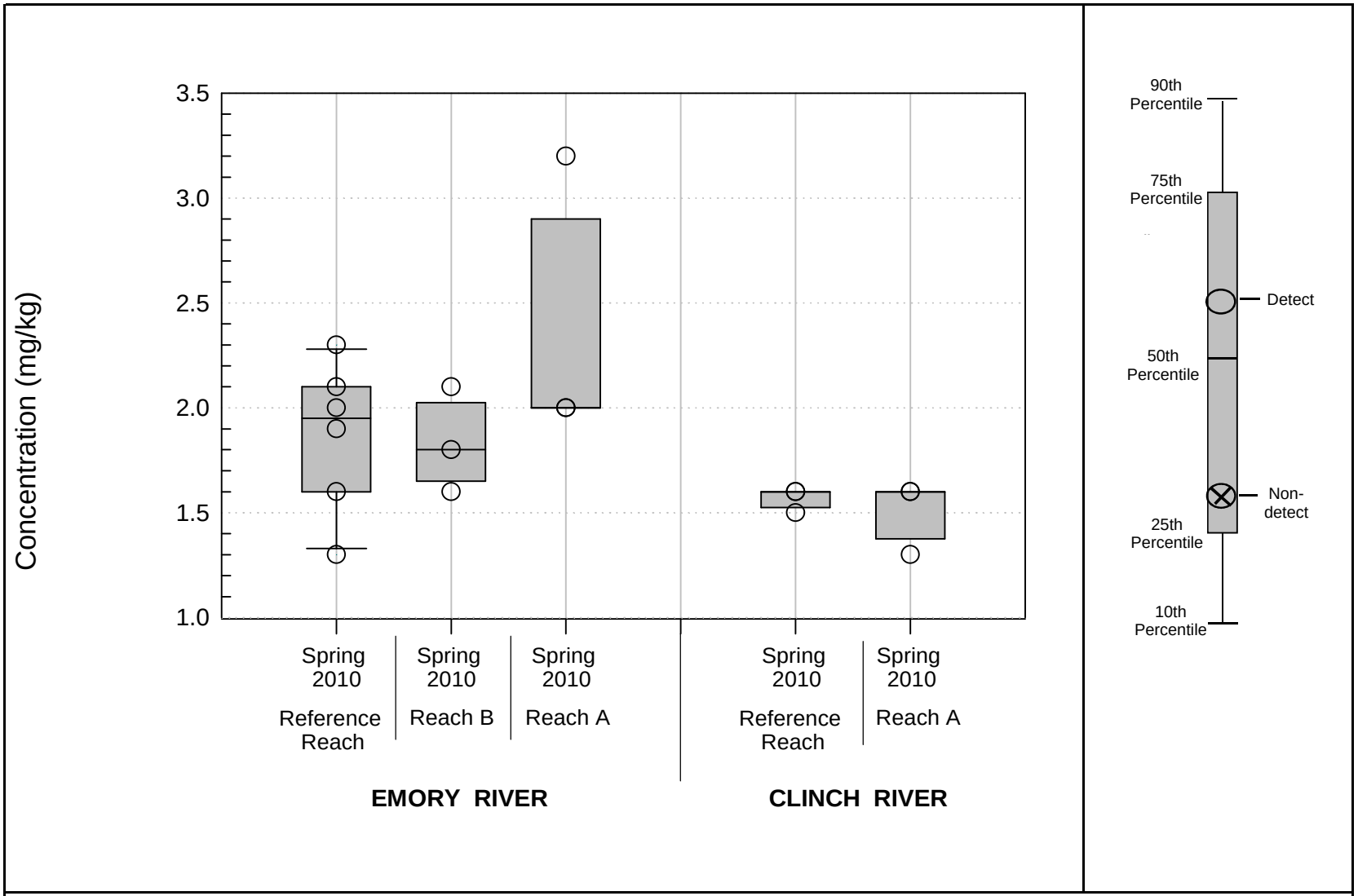
ARCADIS

Liver
Largemouth Bass - Nickel
TVA Kingston



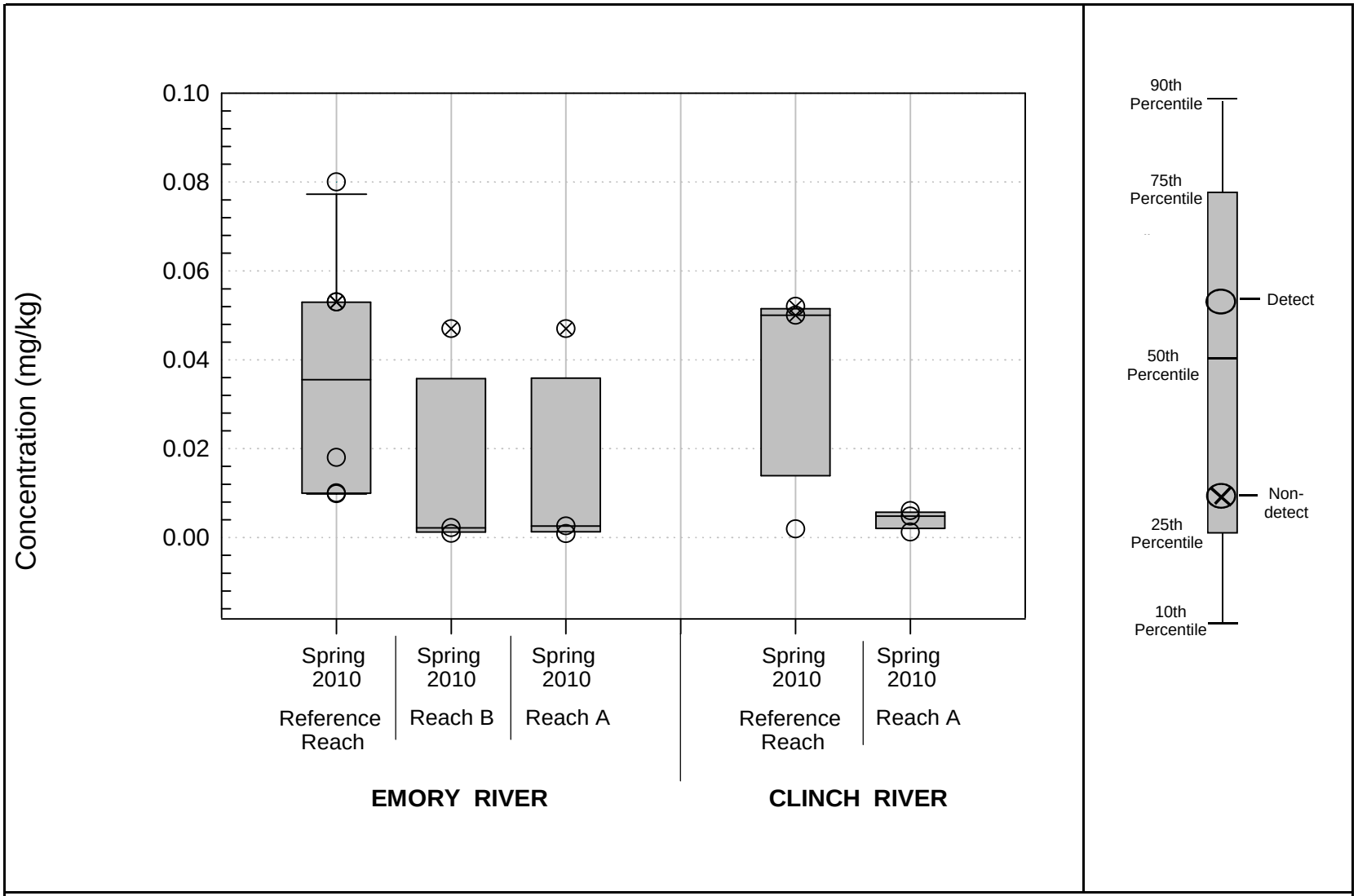
ARCADIS

Liver
Largemouth Bass - Potassium
TVA Kingston



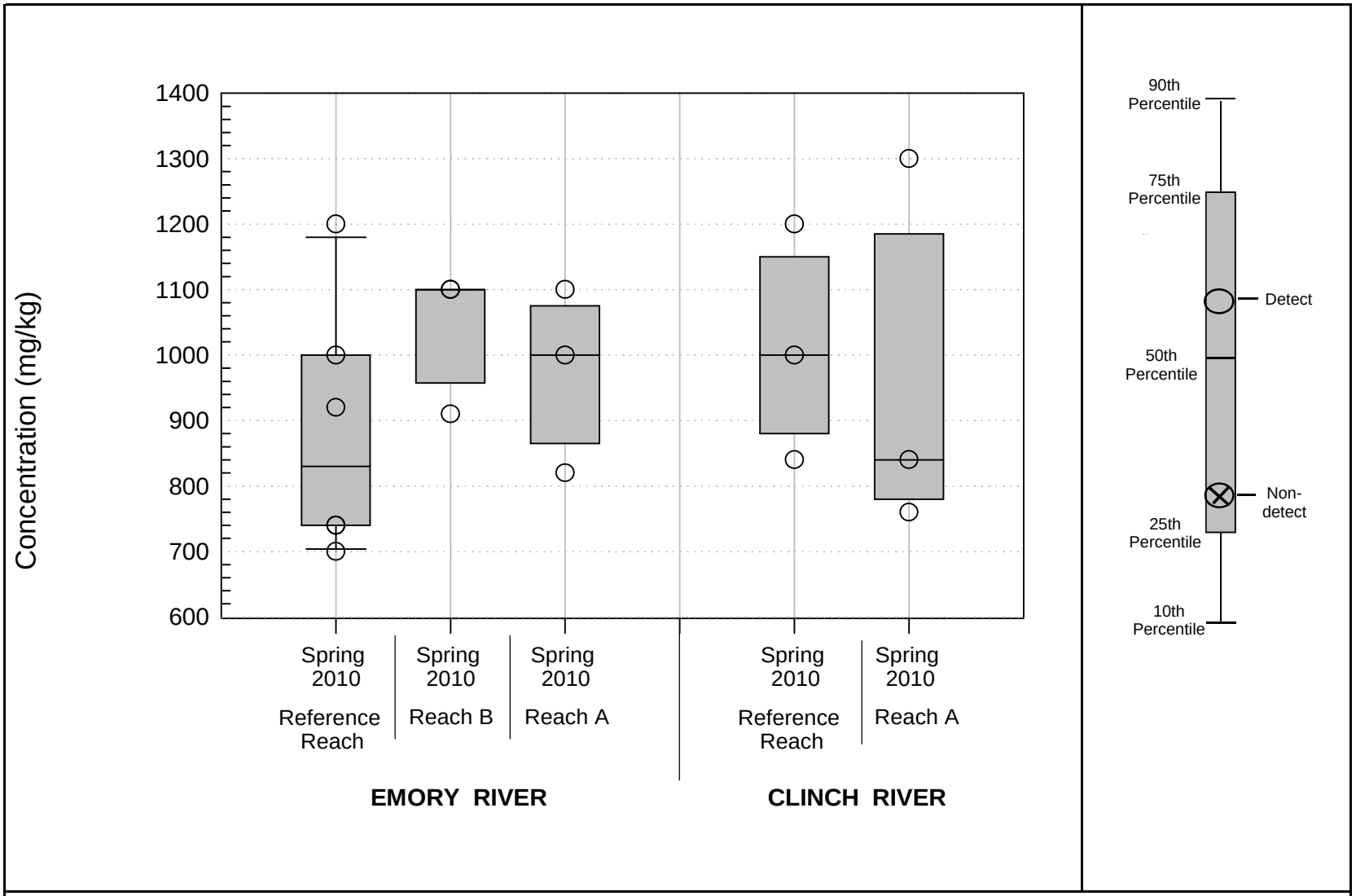
ARCADIS

Liver
Largemouth Bass - Selenium
TVA Kingston



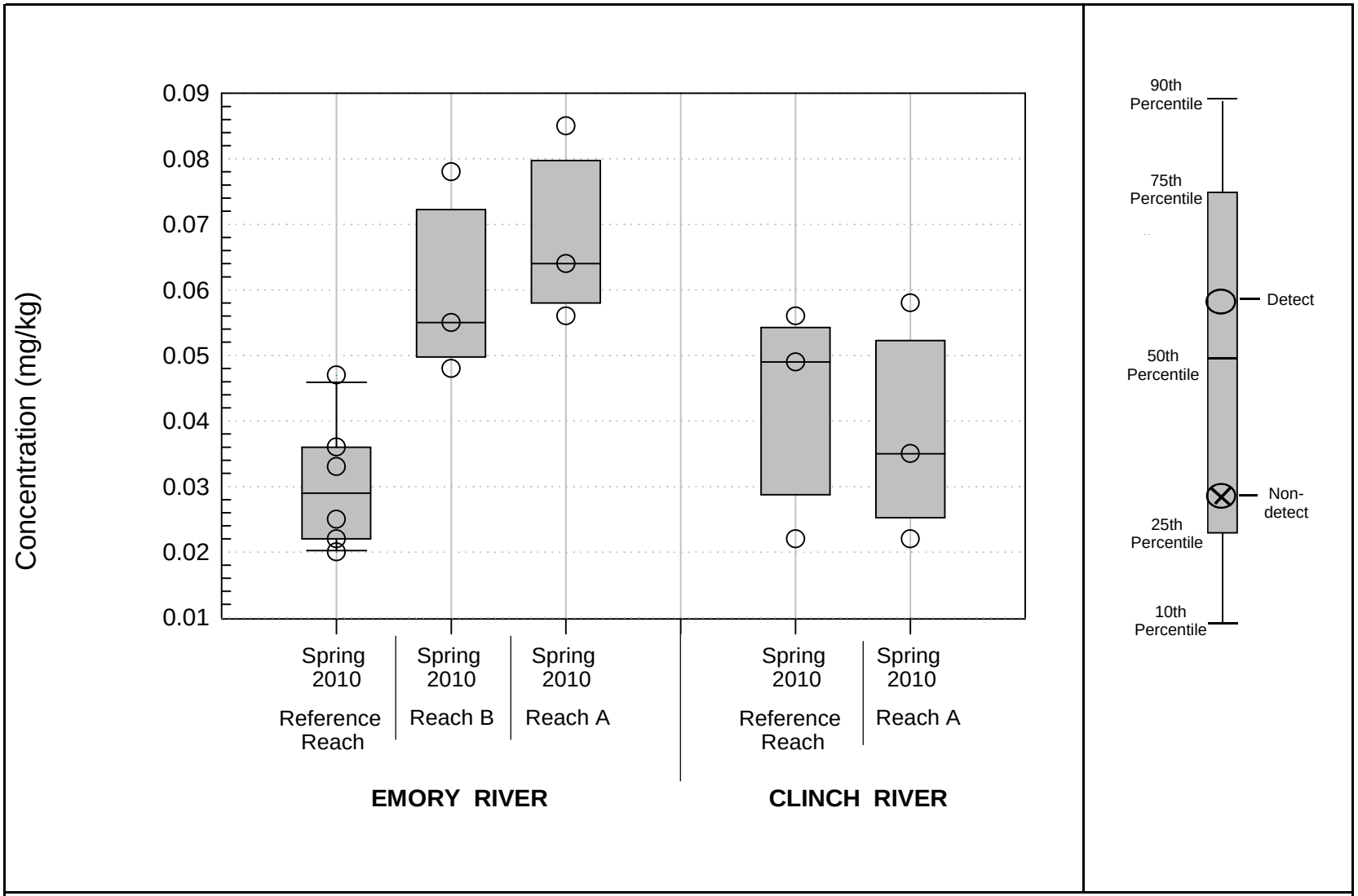
ARCADIS

Liver
Largemouth Bass - Silver
TVA Kingston



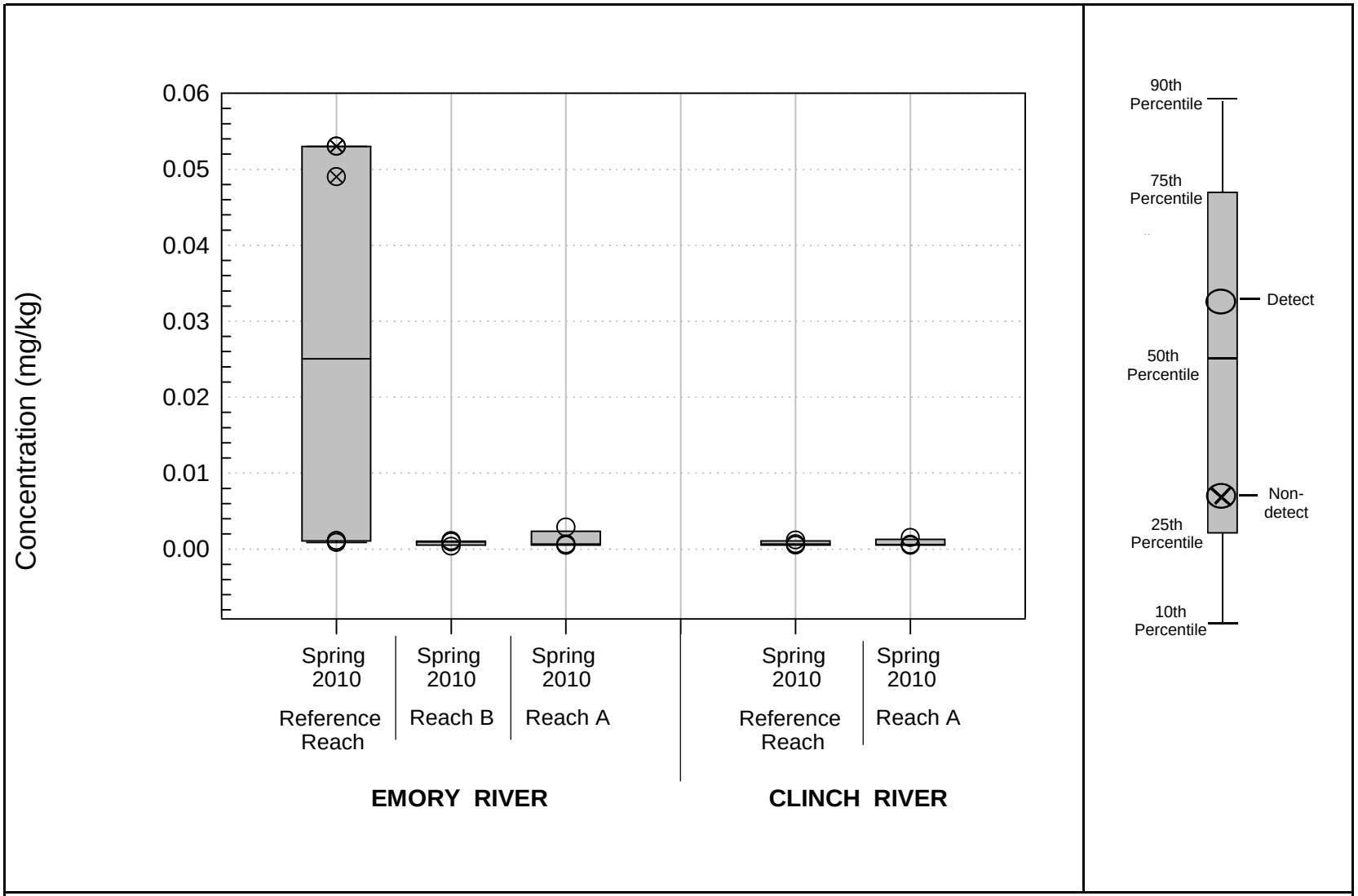
ARCADIS

Liver
Largemouth Bass - Sodium
TVA Kingston



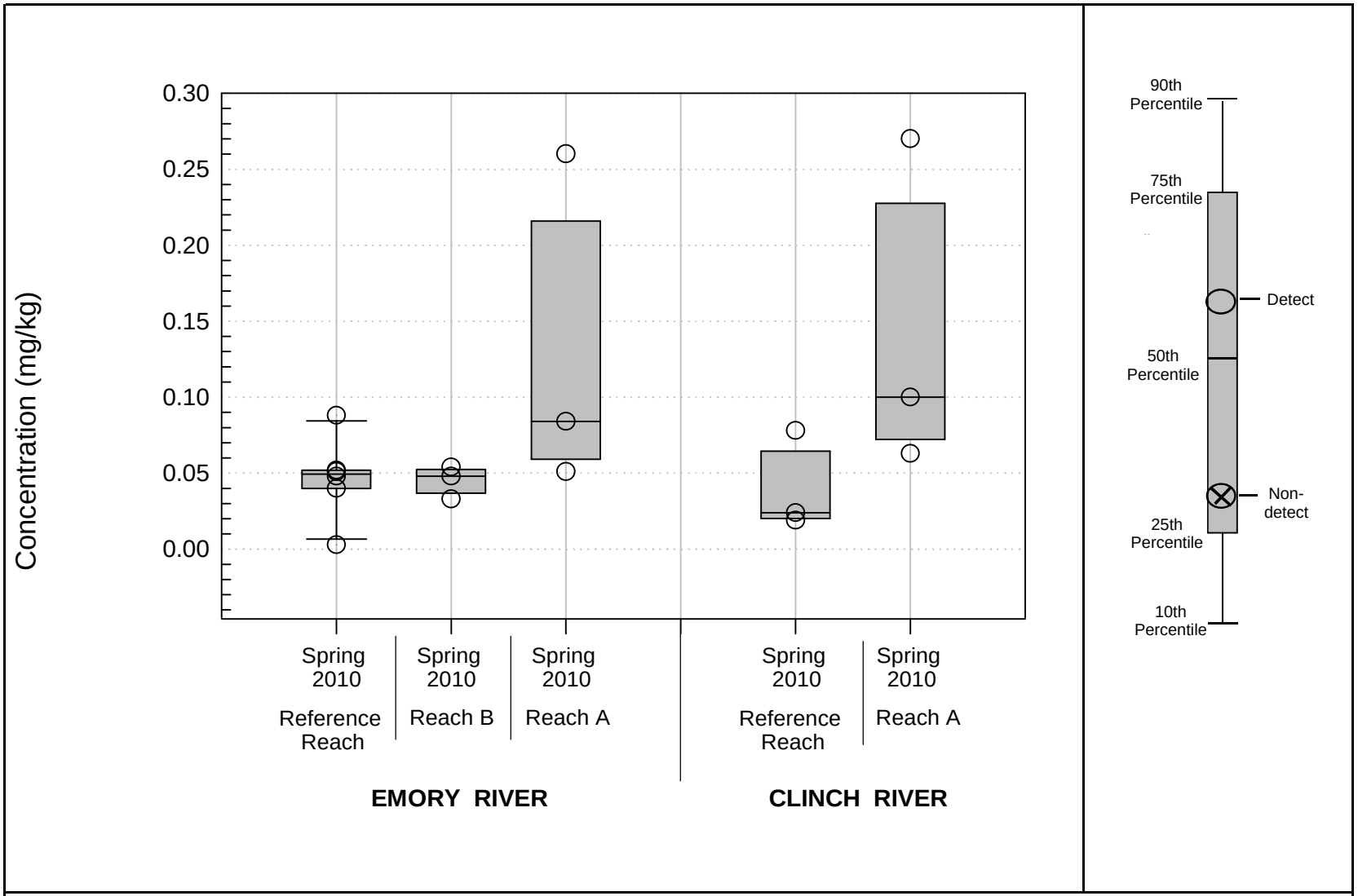
ARCADIS

Liver
Largemouth Bass - Thallium
TVA Kingston



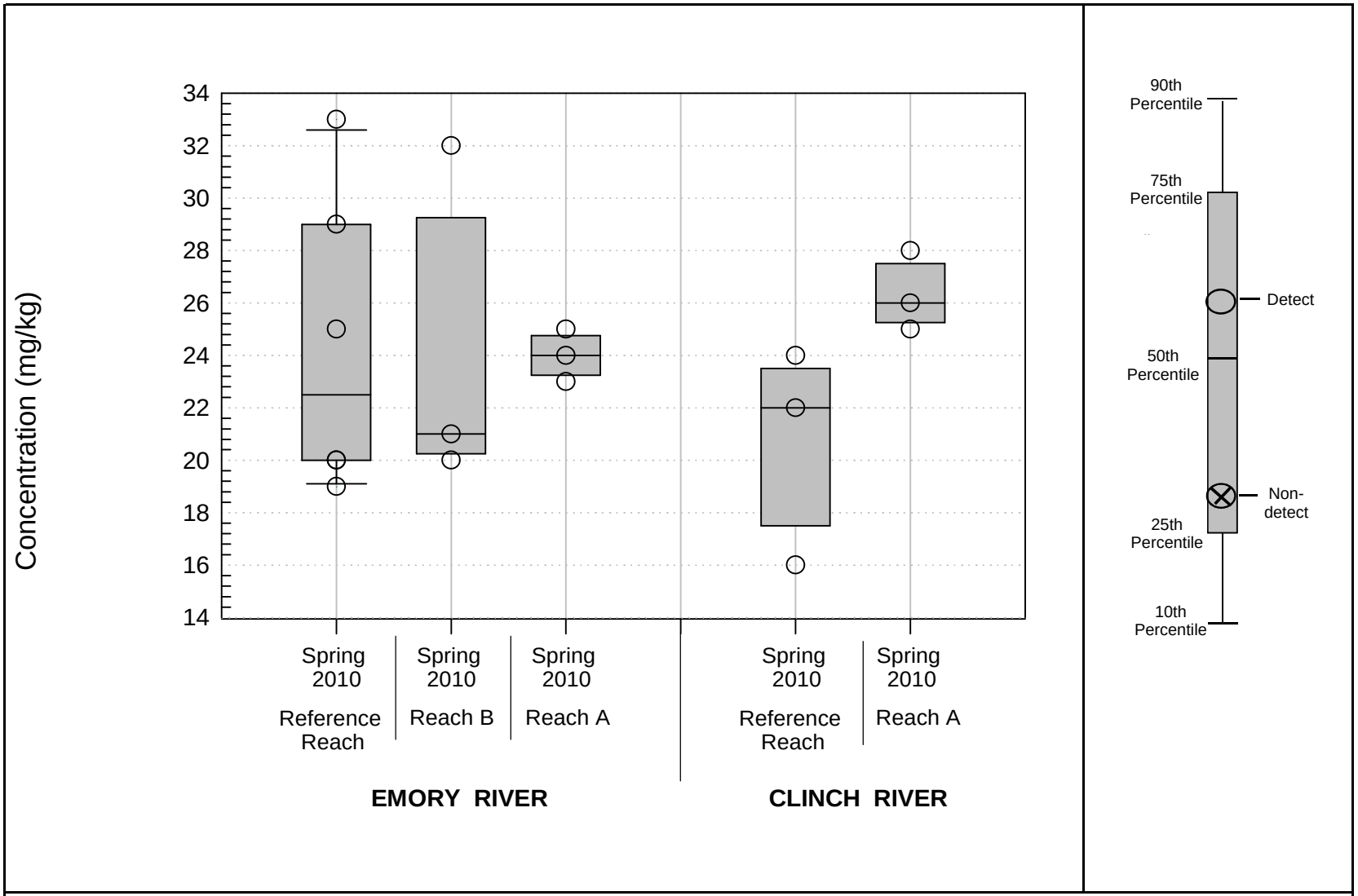
ARCADIS

Liver
Largemouth Bass - Uranium
TVA Kingston



ARCADIS

Liver
Largemouth Bass - Vanadium
TVA Kingston

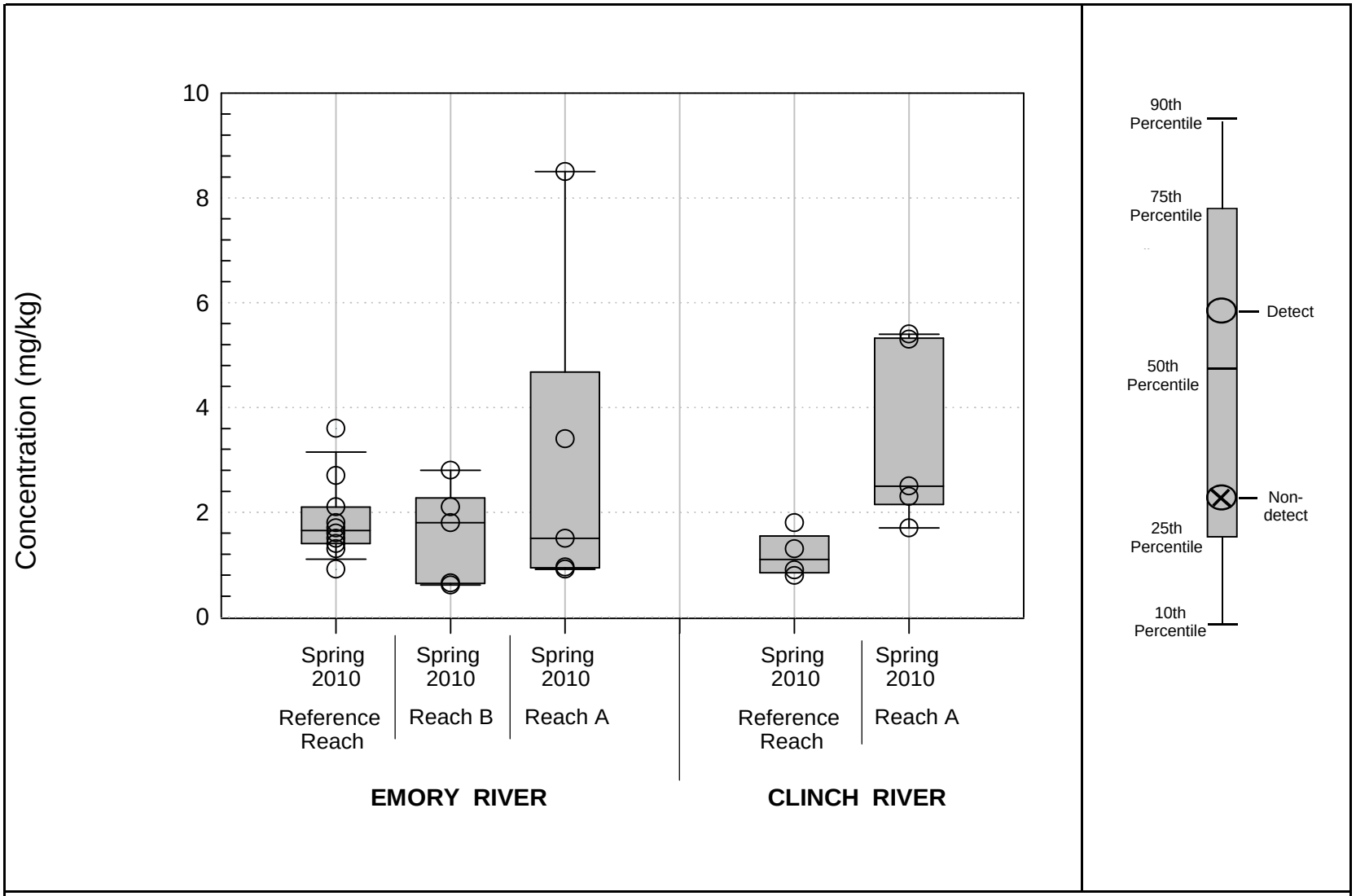


ARCADIS

Liver
Largemouth Bass - Zinc
TVA Kingston

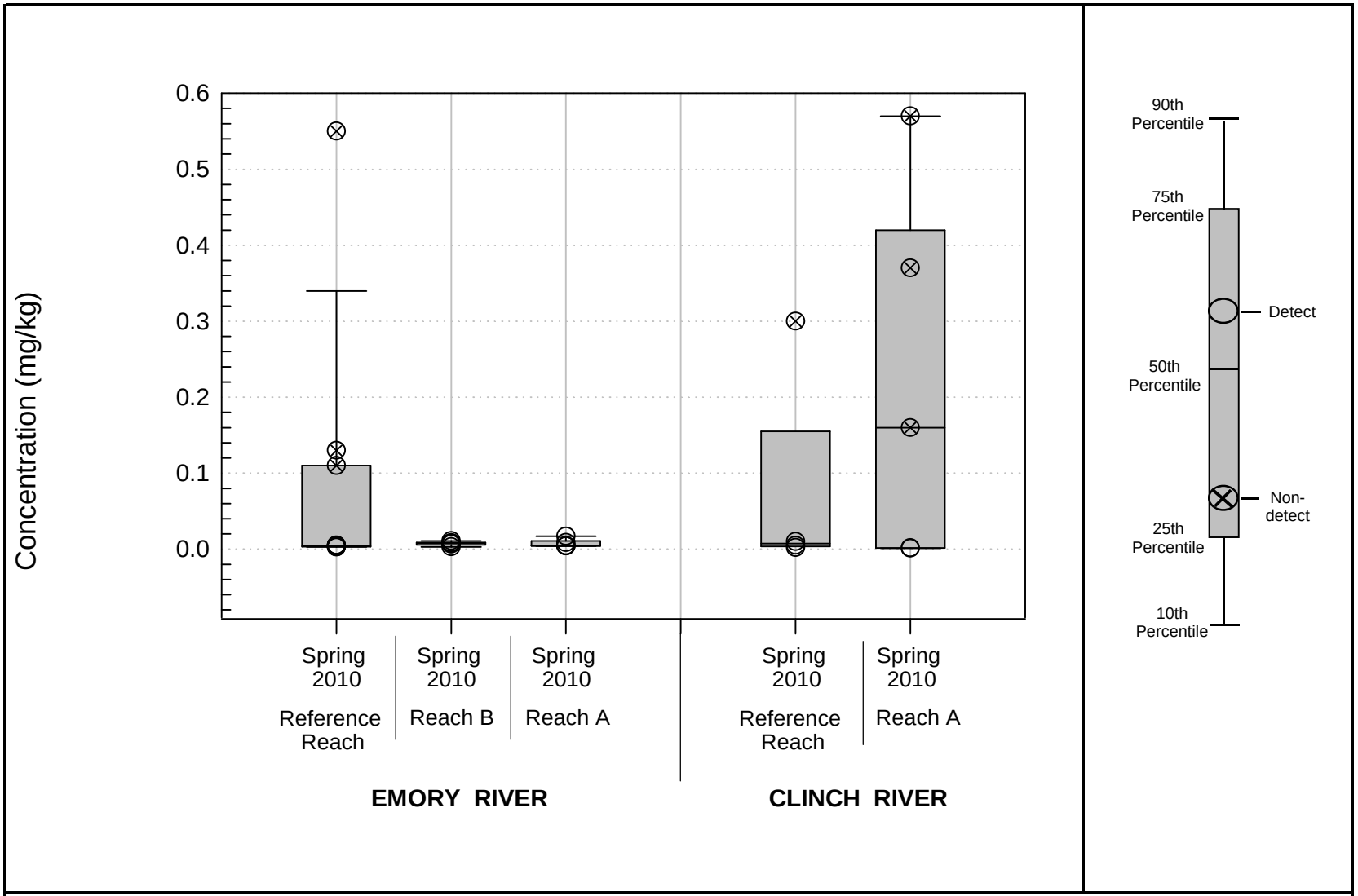
Appendix I

Box Plots Presenting Ovary Tissue Concentrations of Analytes in Bluegill and Largemouth Bass



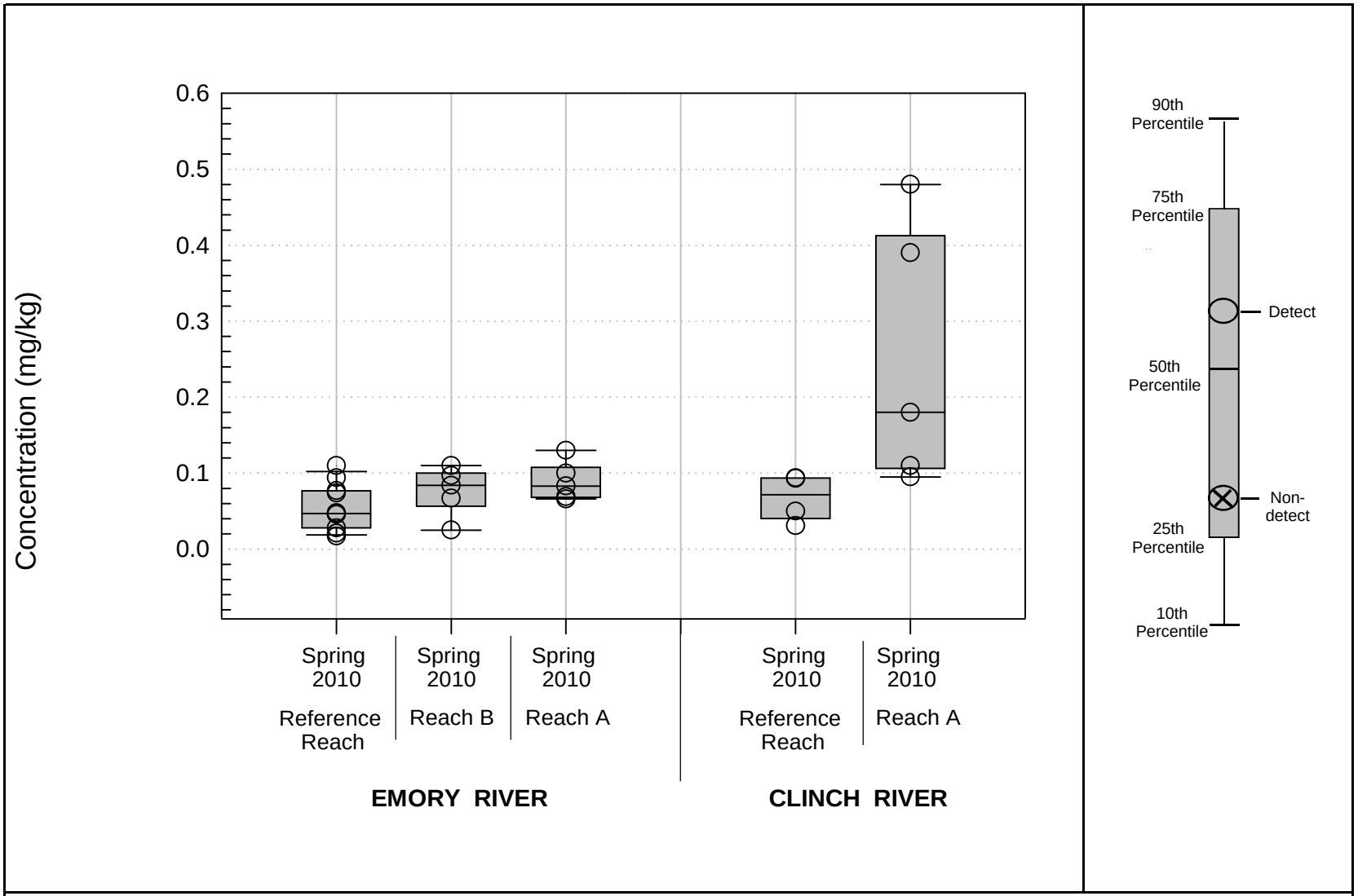
ARCADIS

Ovary
Bluegill - Aluminum
TVA, Kingston



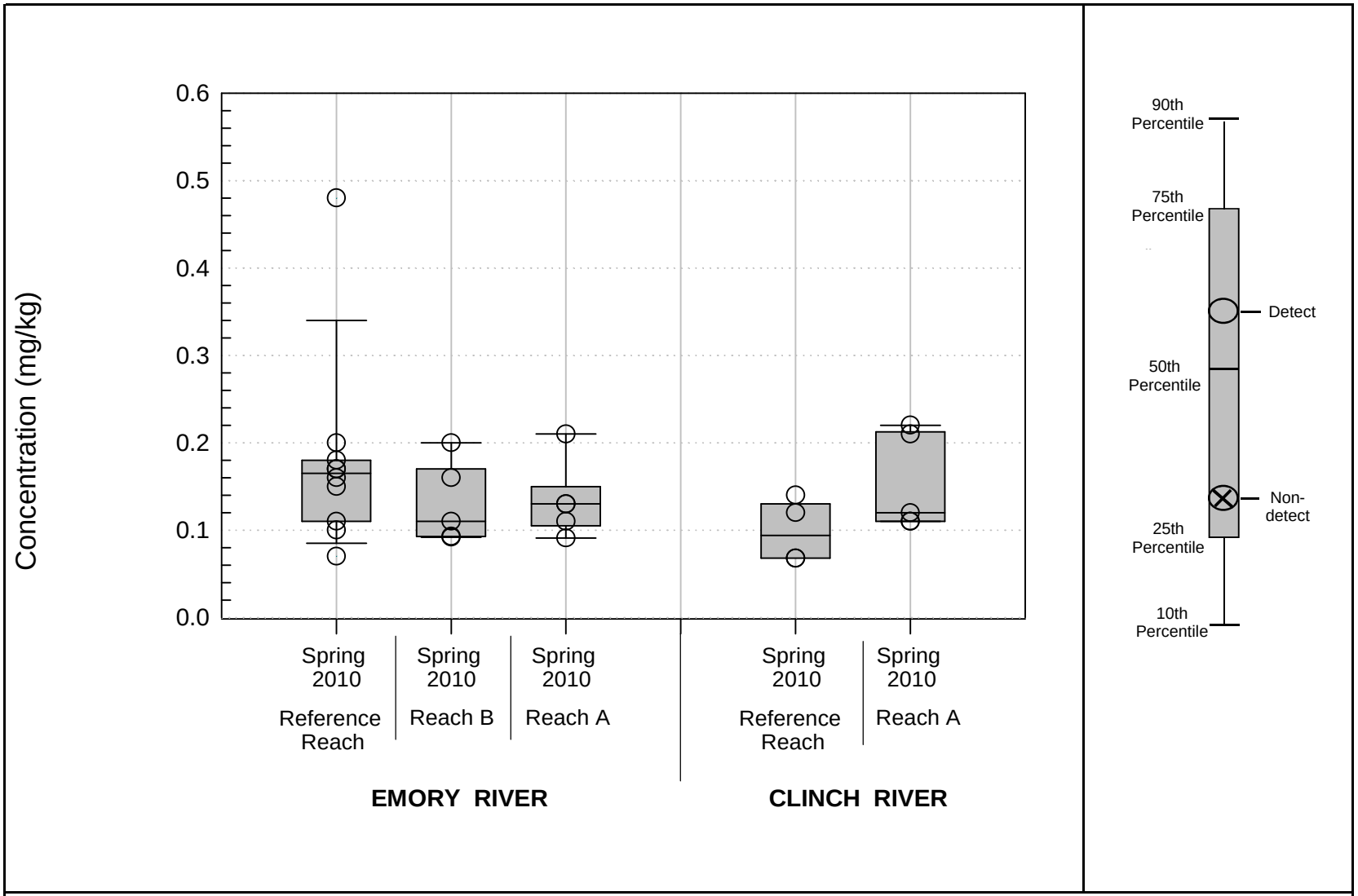
ARCADIS

Ovary
Bluegill - Antimony
TVA, Kingston



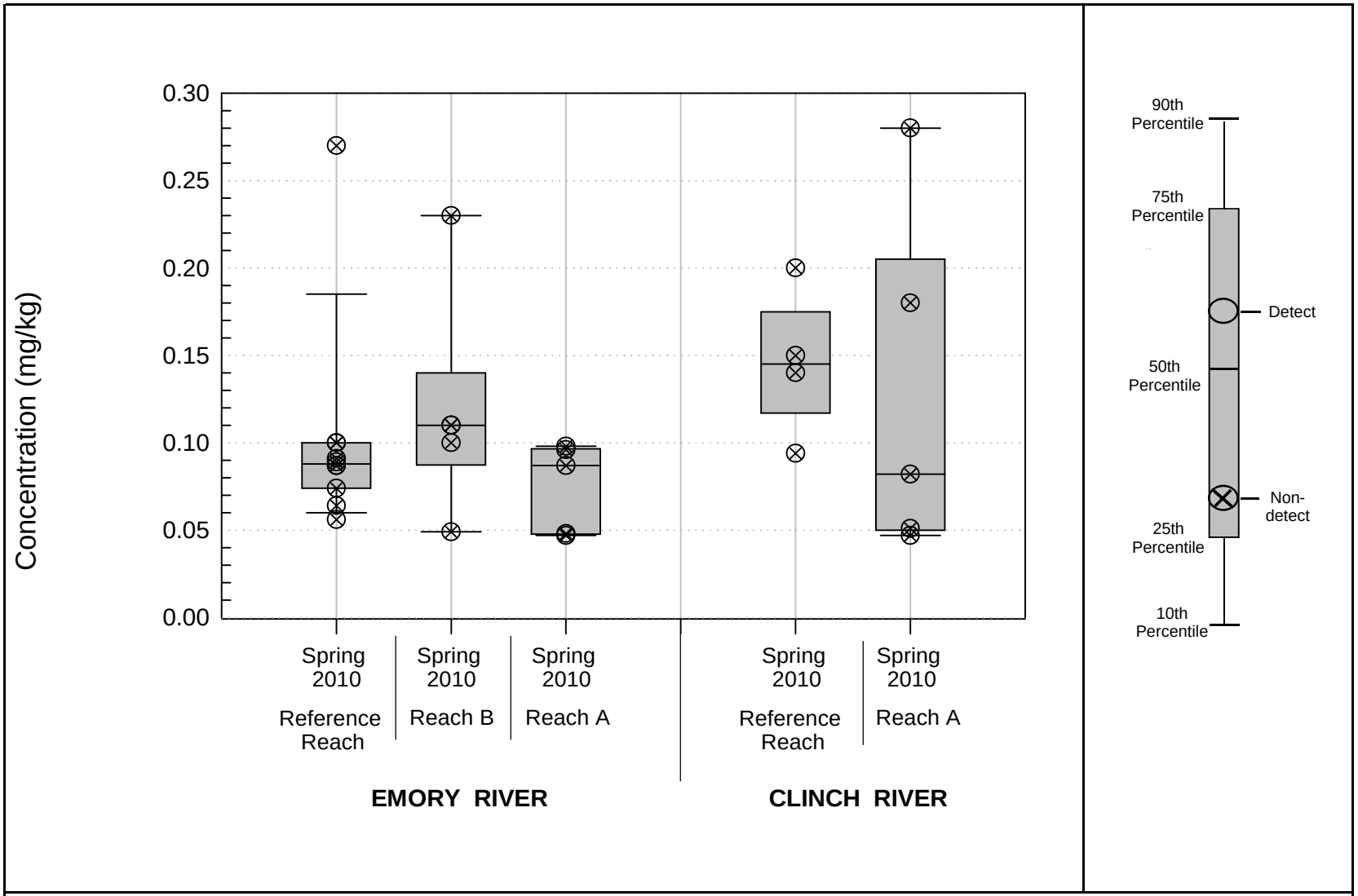
ARCADIS

Ovary
Bluegill - Arsenic
TVA, Kingston



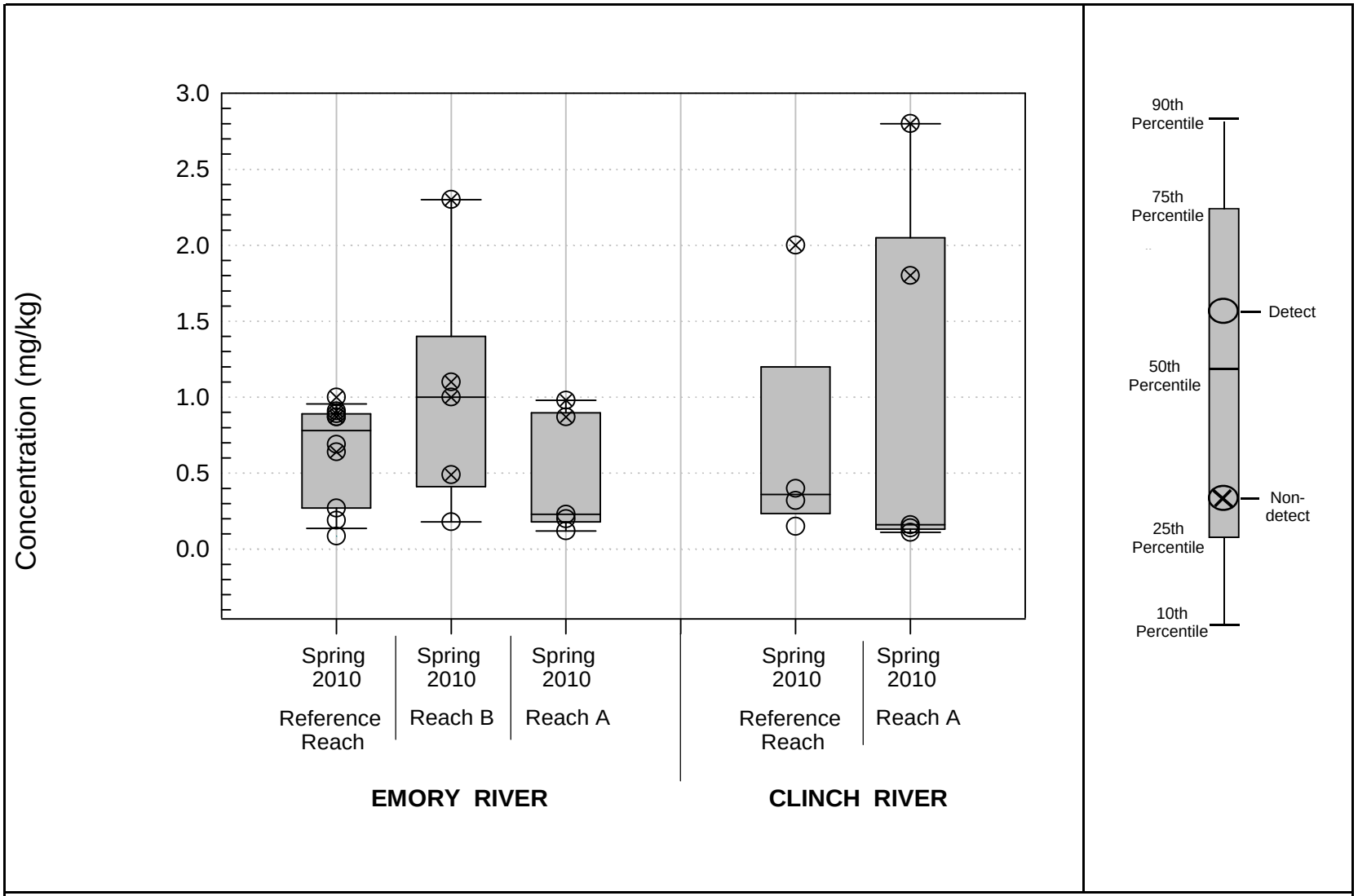
ARCADIS

Ovary
Bluegill - Barium
TVA, Kingston



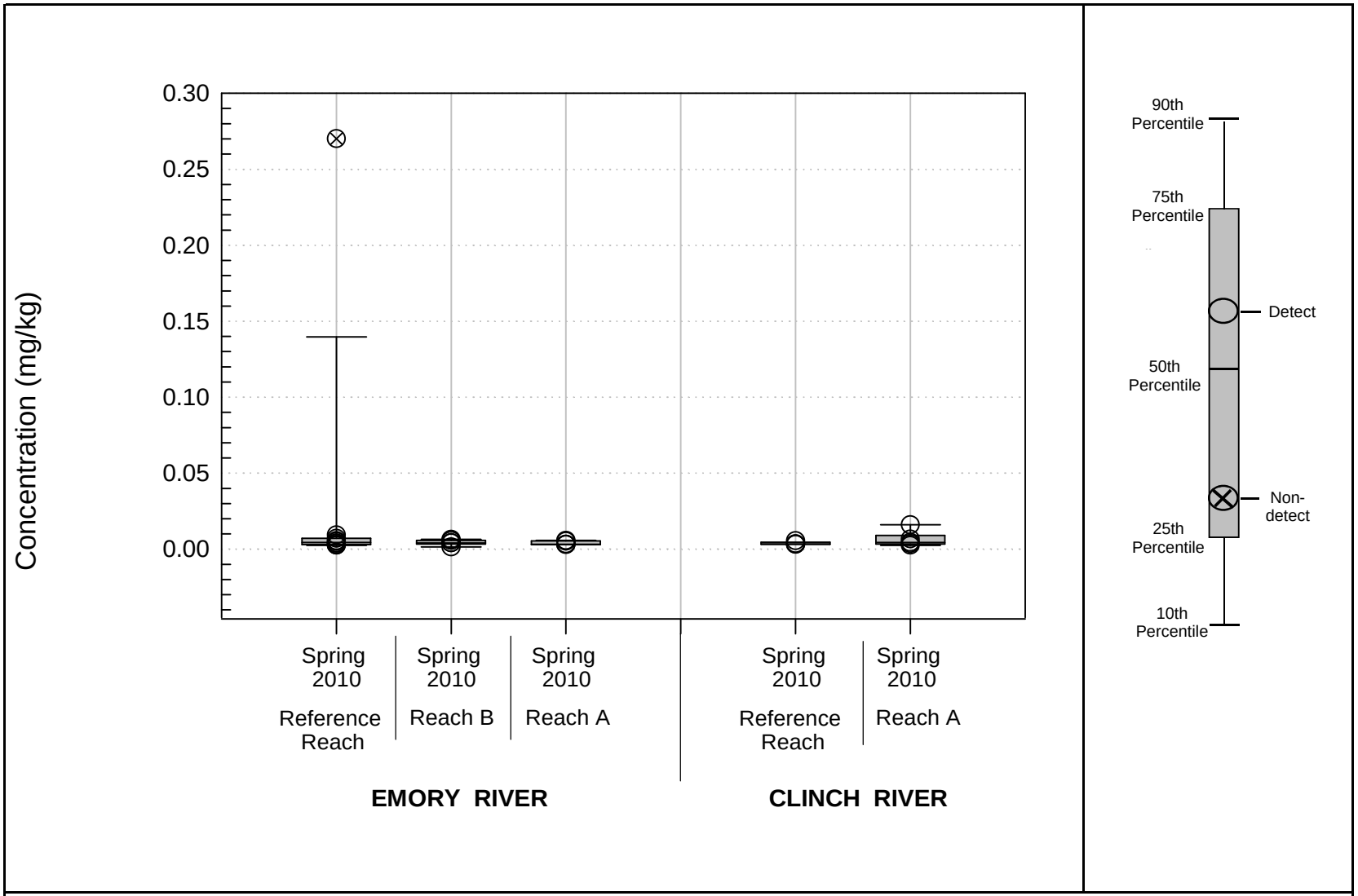
ARCADIS

Ovary
Bluegill - Beryllium
TVA, Kingston



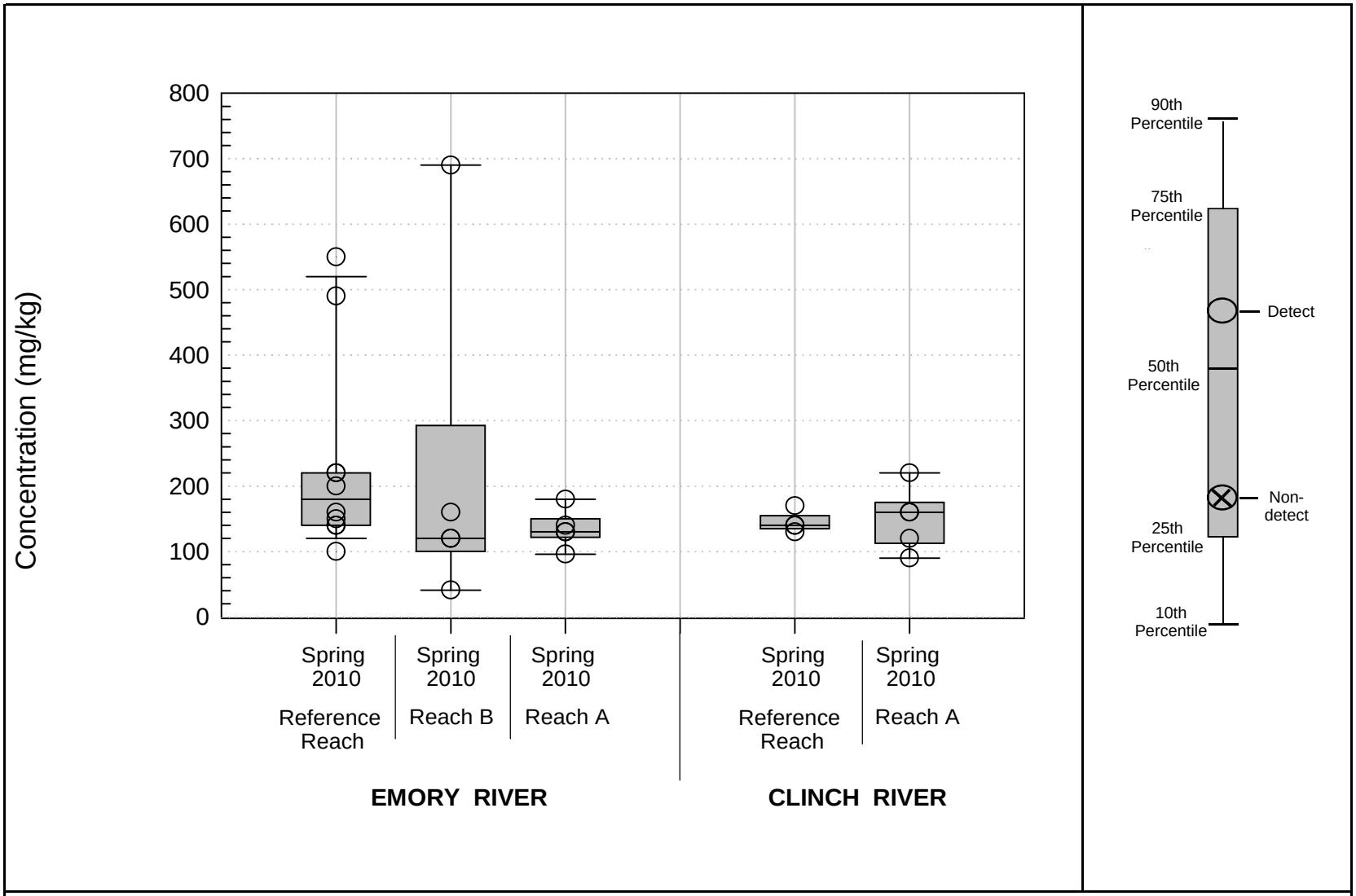
ARCADIS

Ovary
Bluegill - Boron
TVA, Kingston



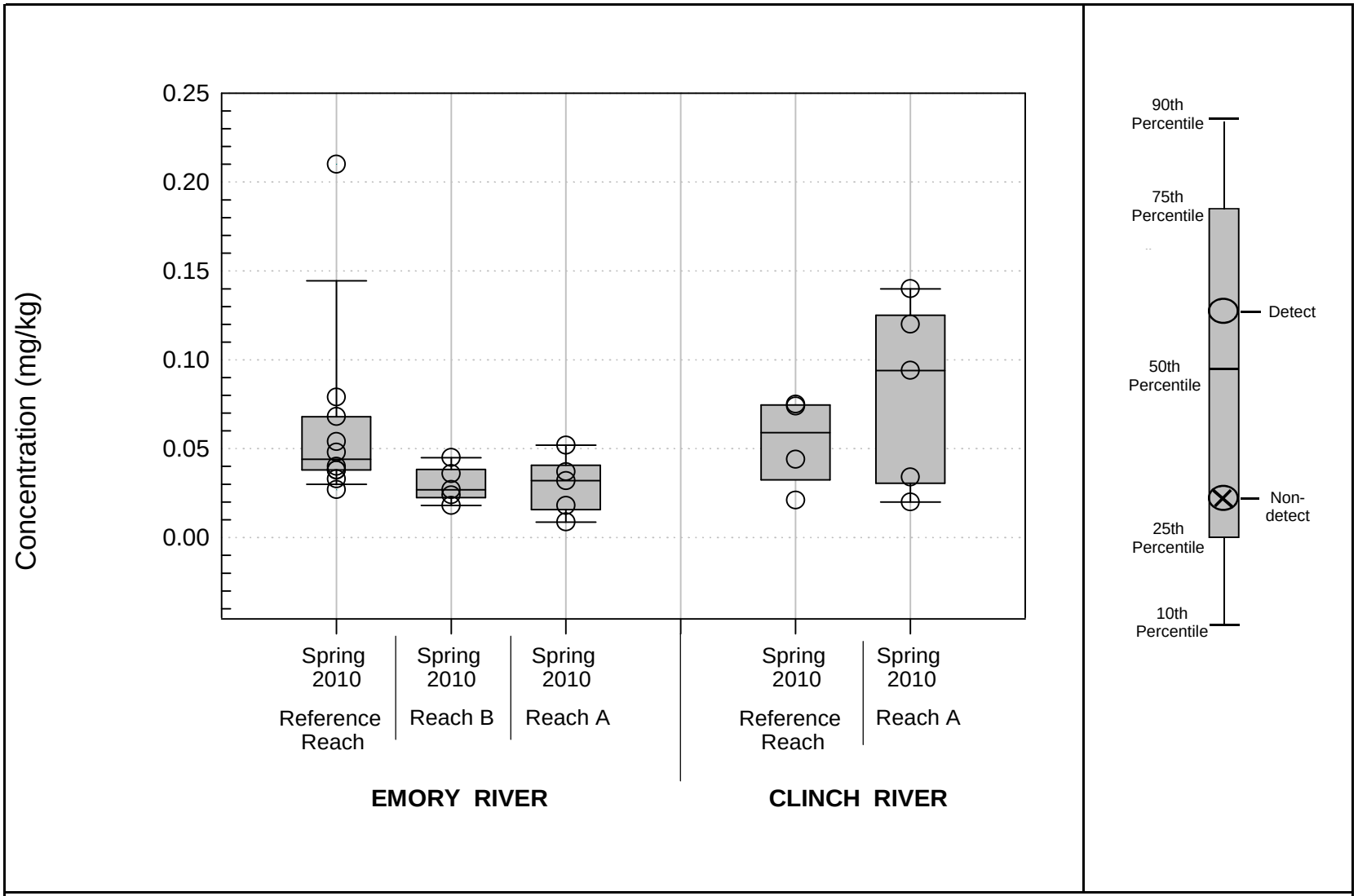
ARCADIS

Ovary
Bluegill - Cadmium
TVA, Kingston



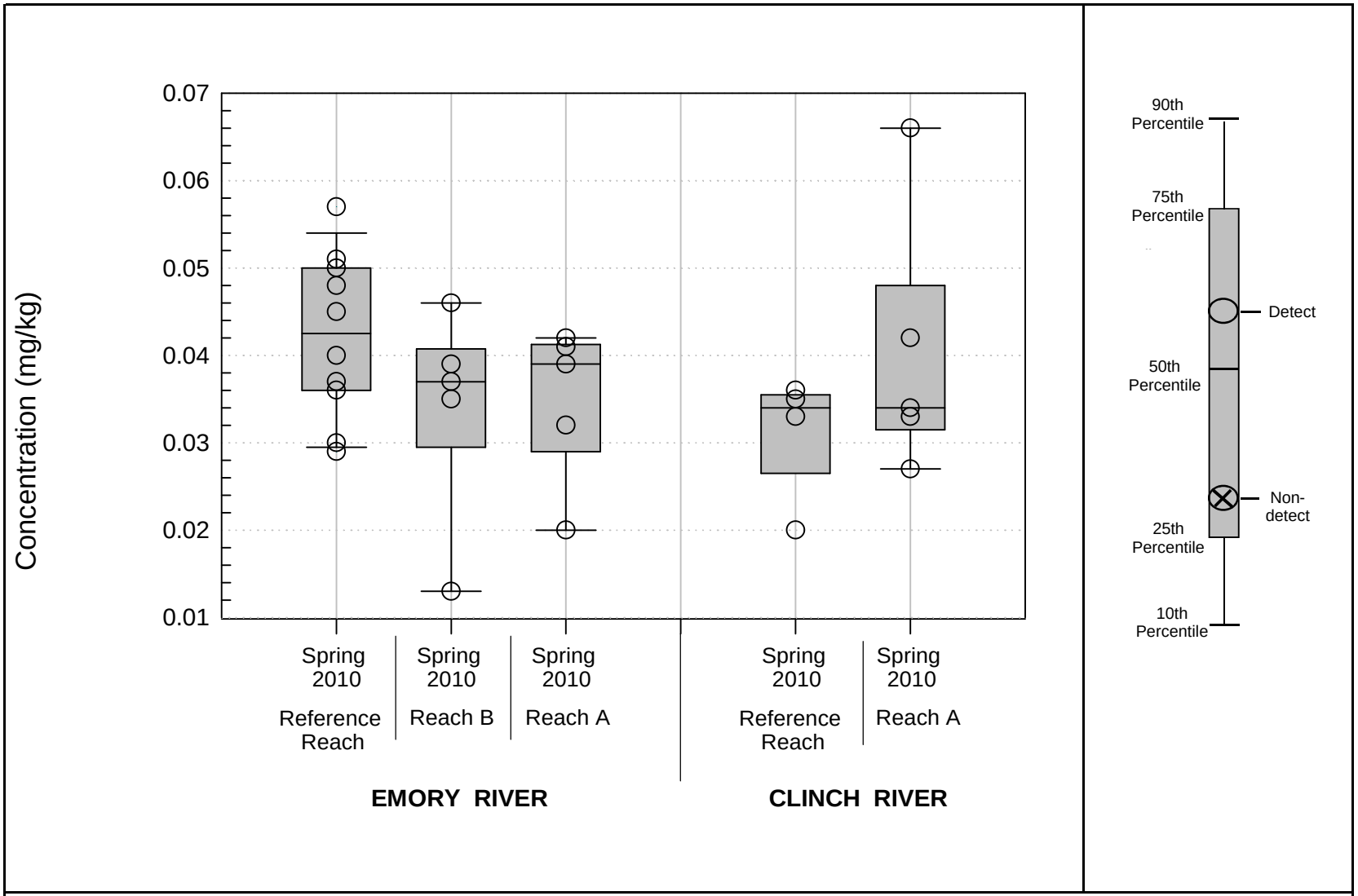
ARCADIS

Ovary
Bluegill - Calcium
TVA, Kingston



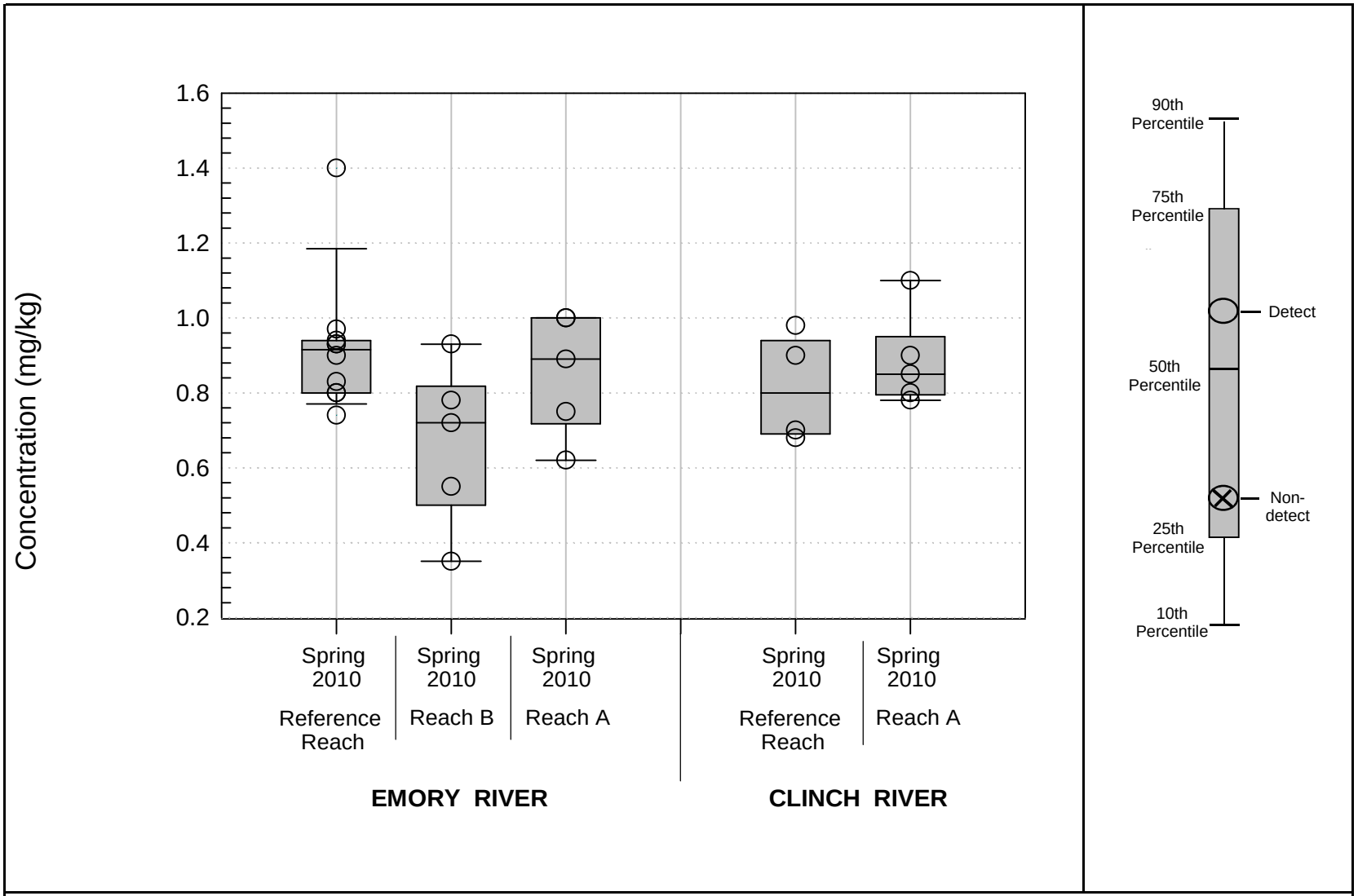
ARCADIS

Ovary
Bluegill - Chromium
TVA, Kingston



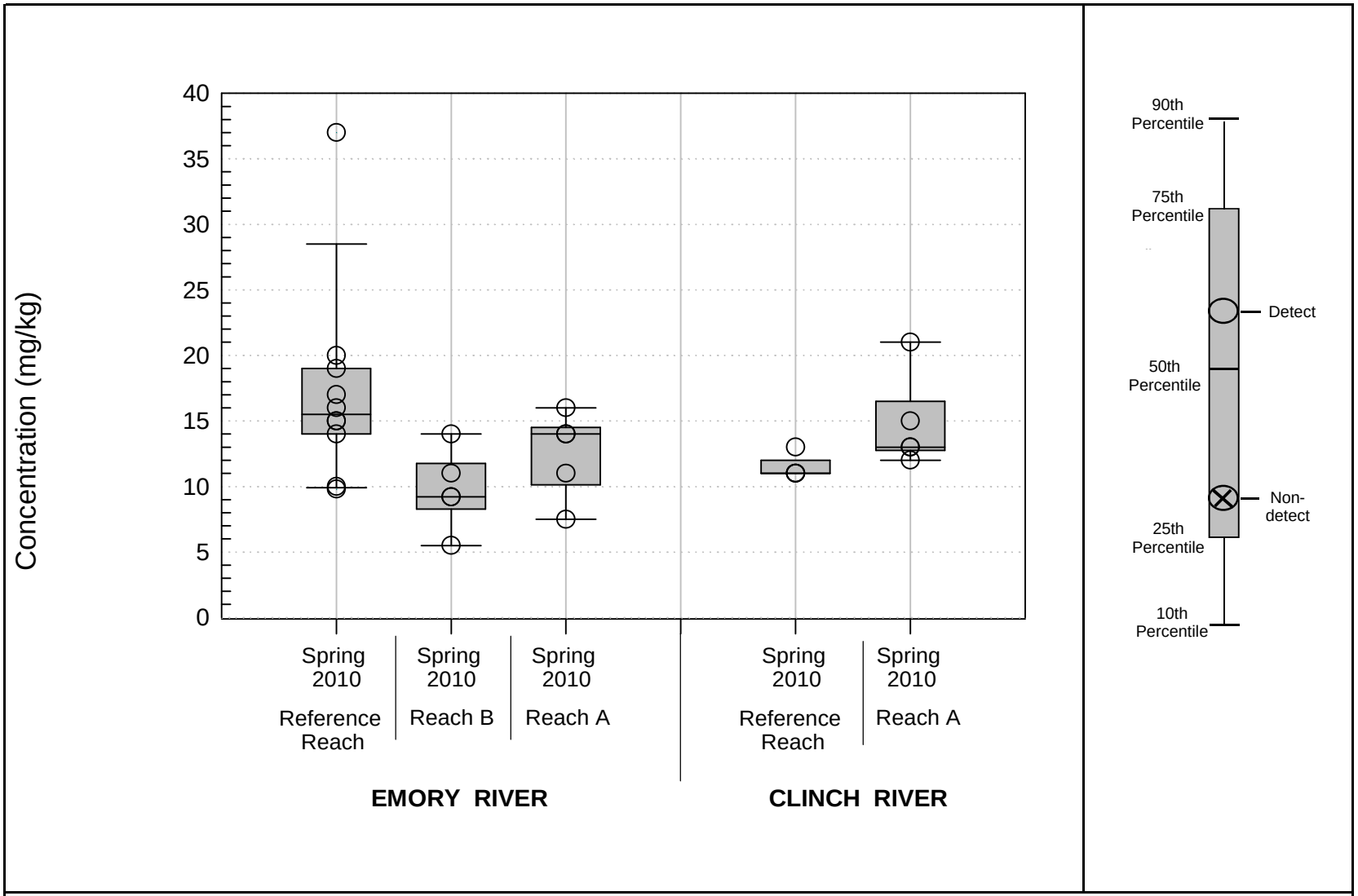
ARCADIS

Ovary
Bluegill - Cobalt
TVA, Kingston



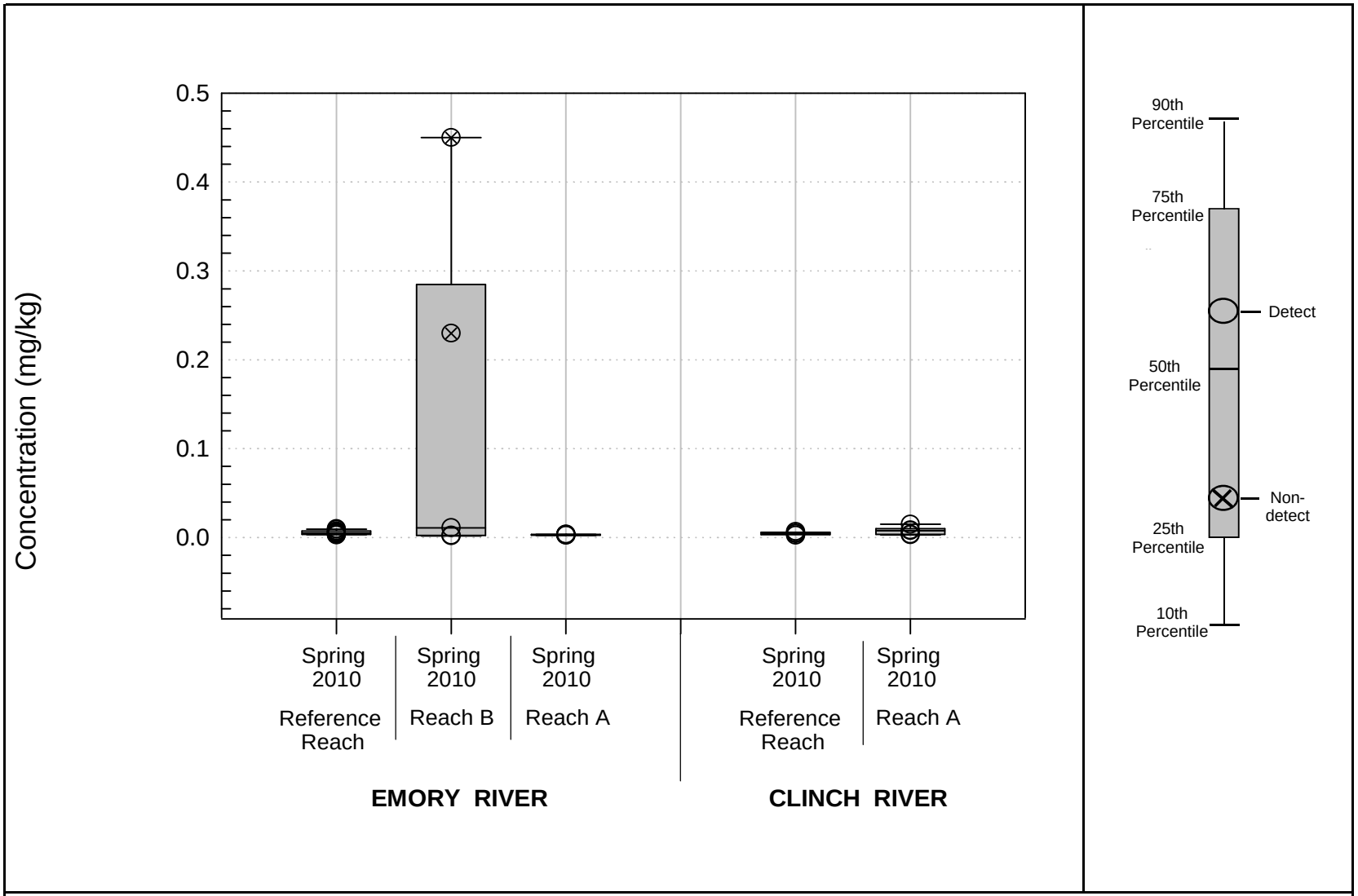
ARCADIS

Ovary
Bluegill - Copper
TVA, Kingston



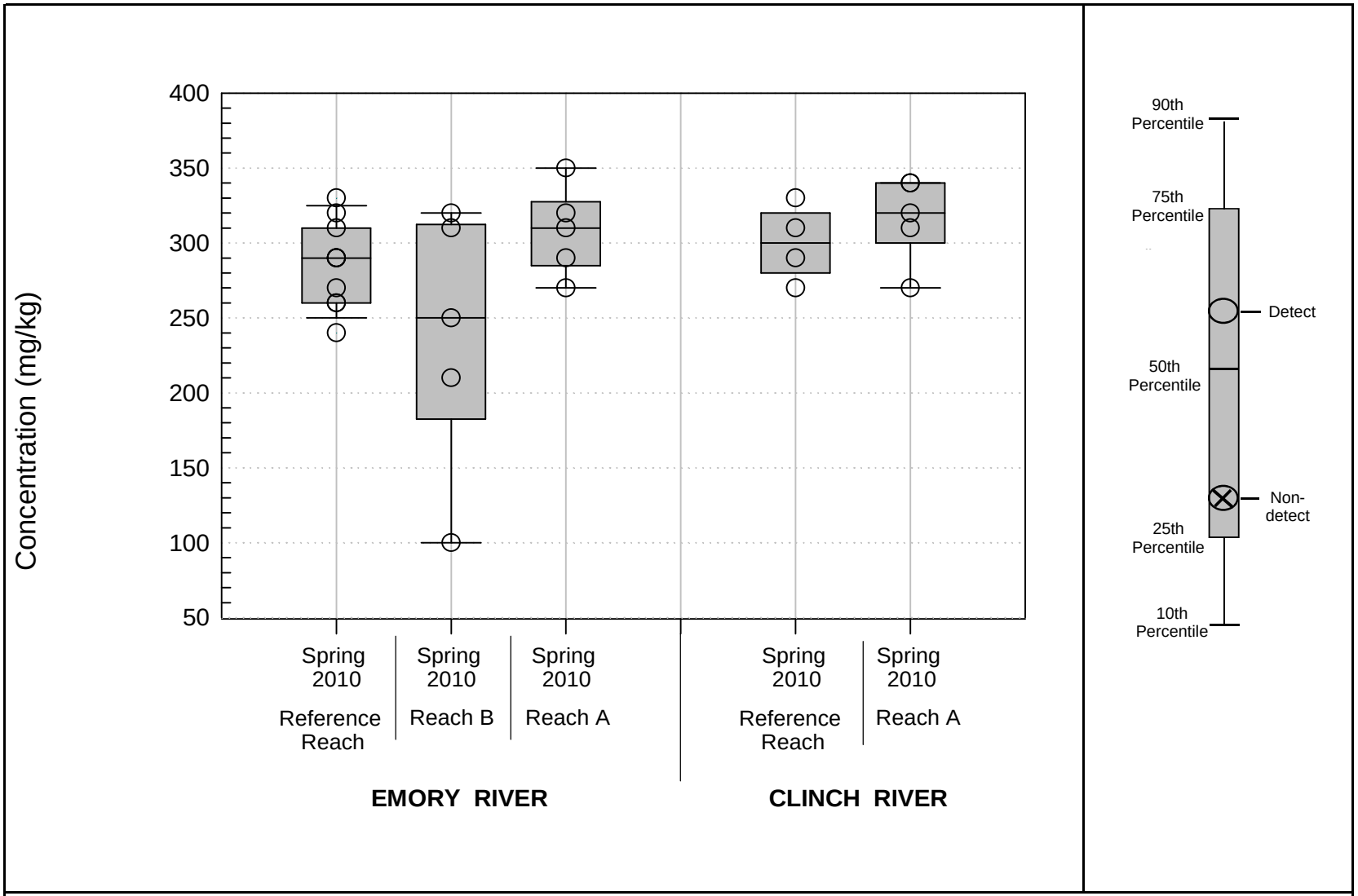
ARCADIS

Ovary
Bluegill - Iron
TVA, Kingston



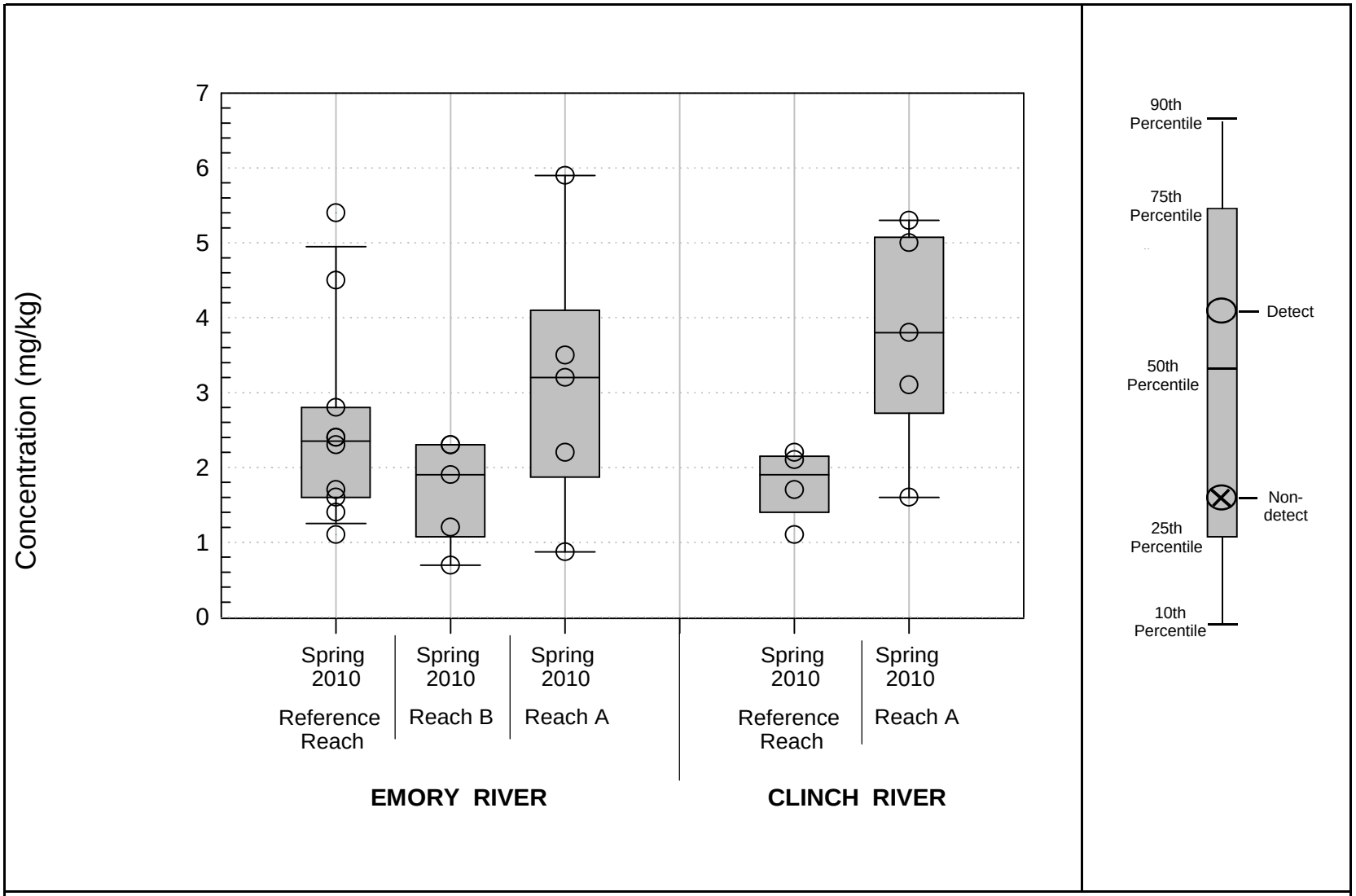
ARCADIS

Ovary
Bluegill - Lead
TVA, Kingston



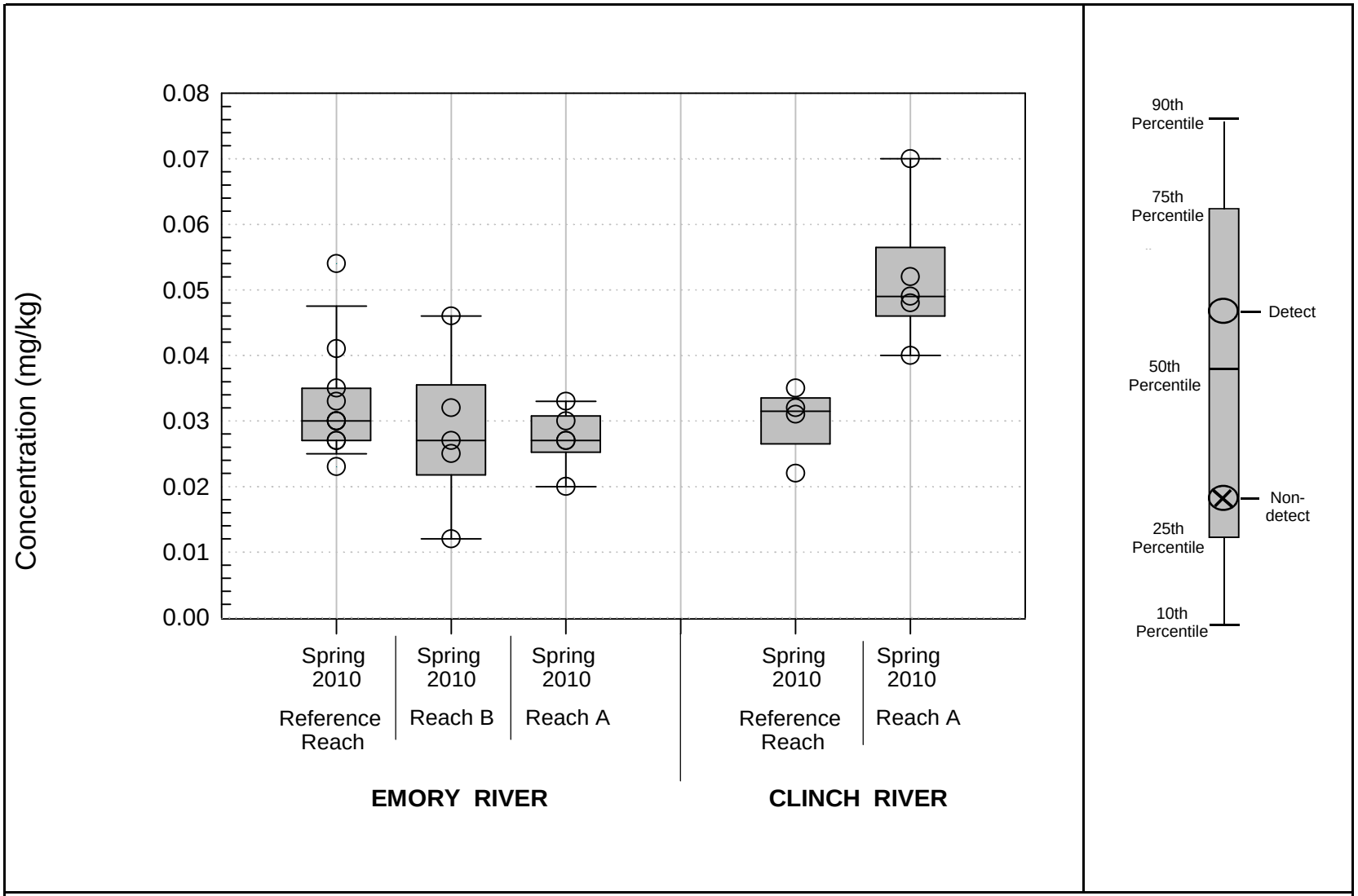
ARCADIS

Ovary
Bluegill - Magnesium
TVA, Kingston



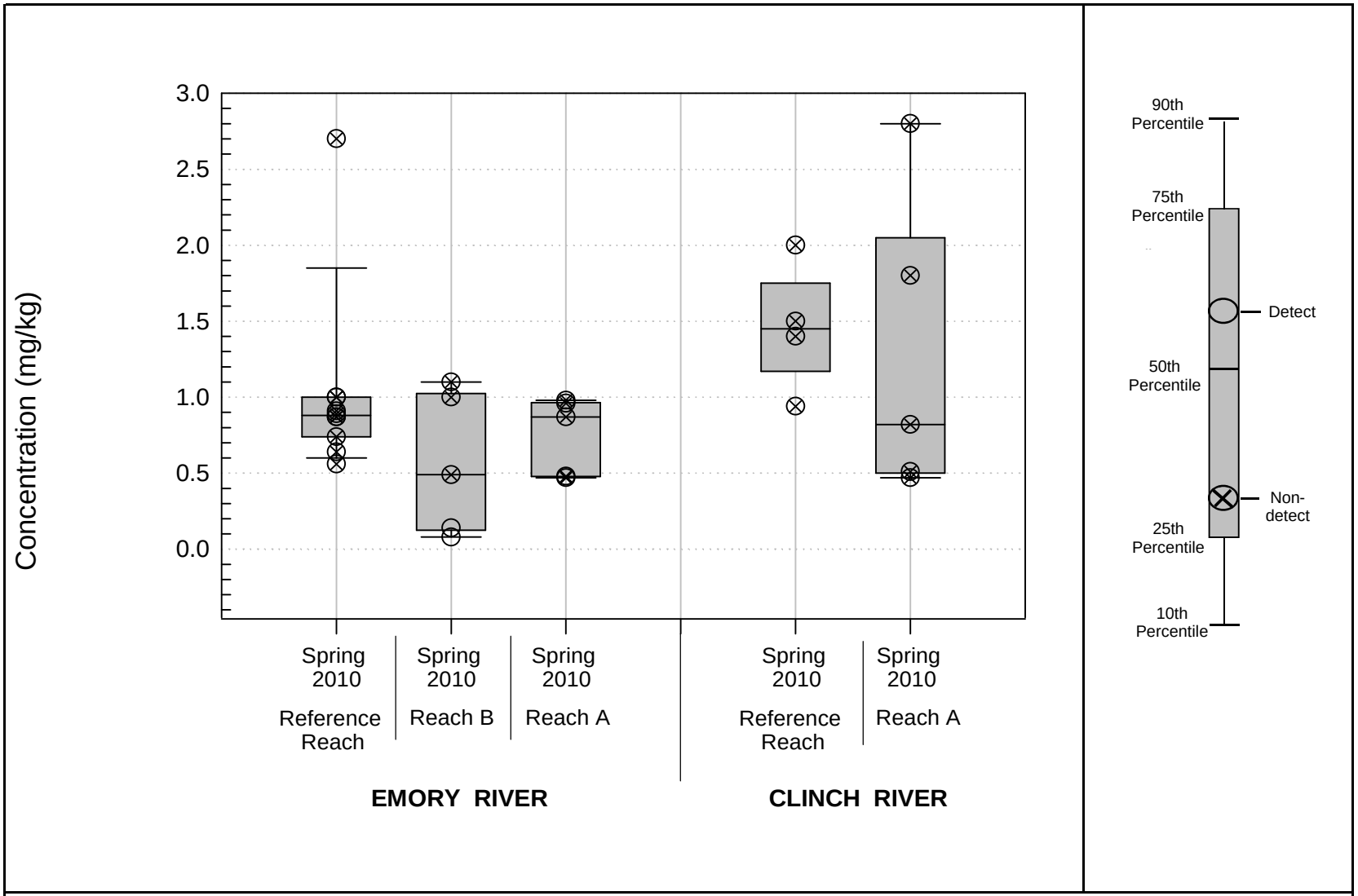
ARCADIS

Ovary
Bluegill - Manganese
TVA, Kingston



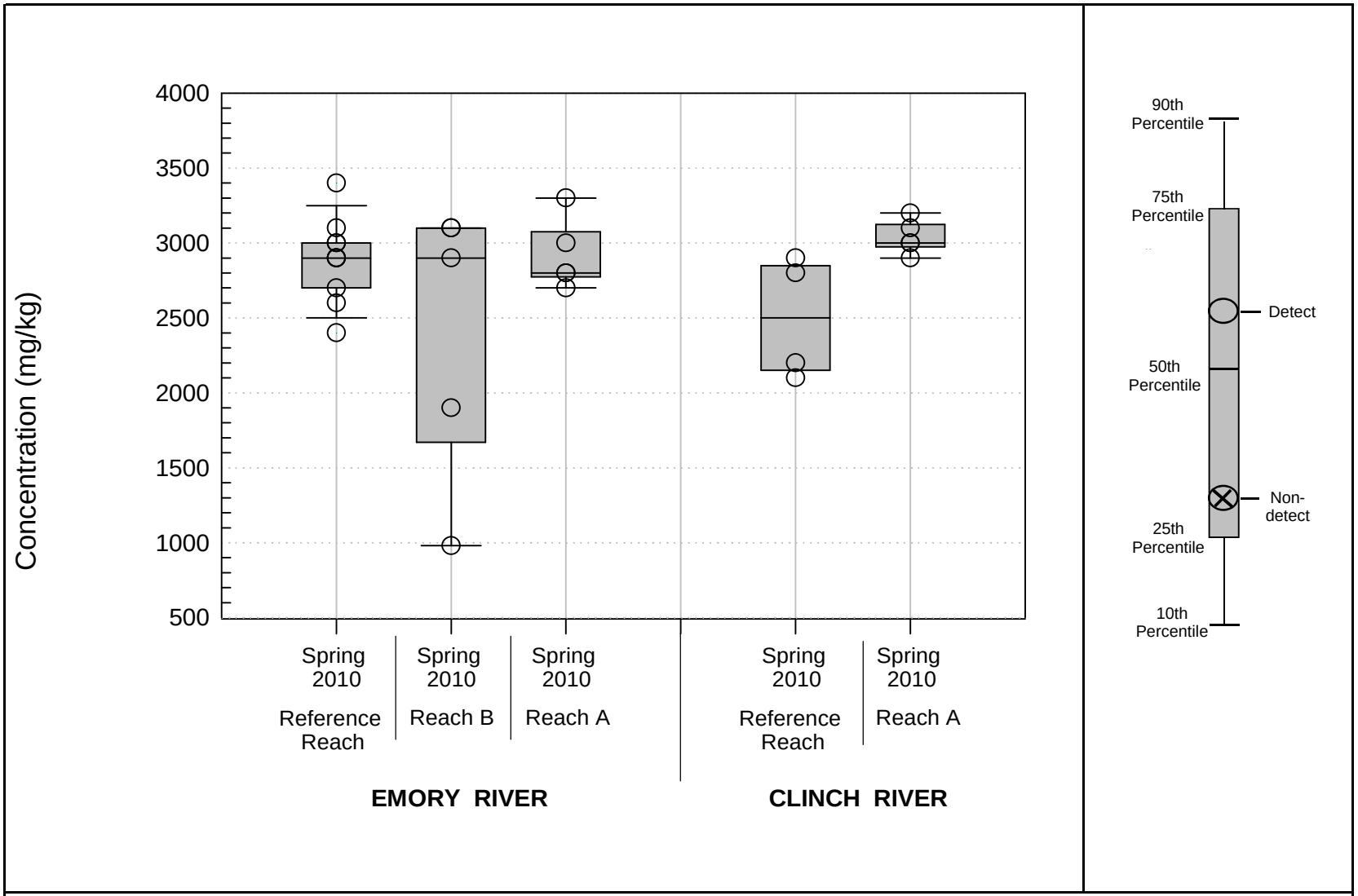
ARCADIS

Ovary
Bluegill - Molybdenum
TVA, Kingston



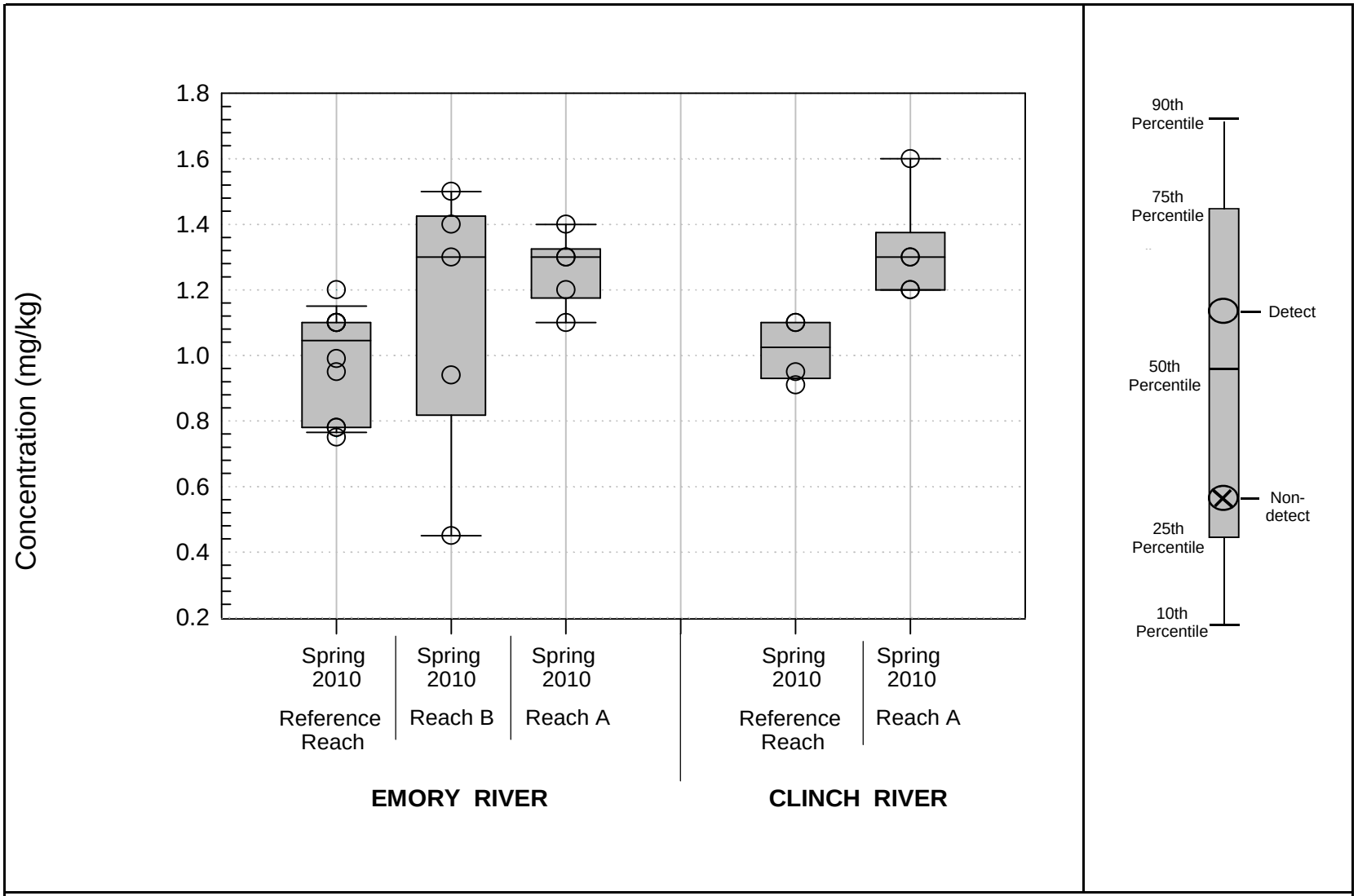
ARCADIS

Ovary
Bluegill - Nickel
TVA, Kingston



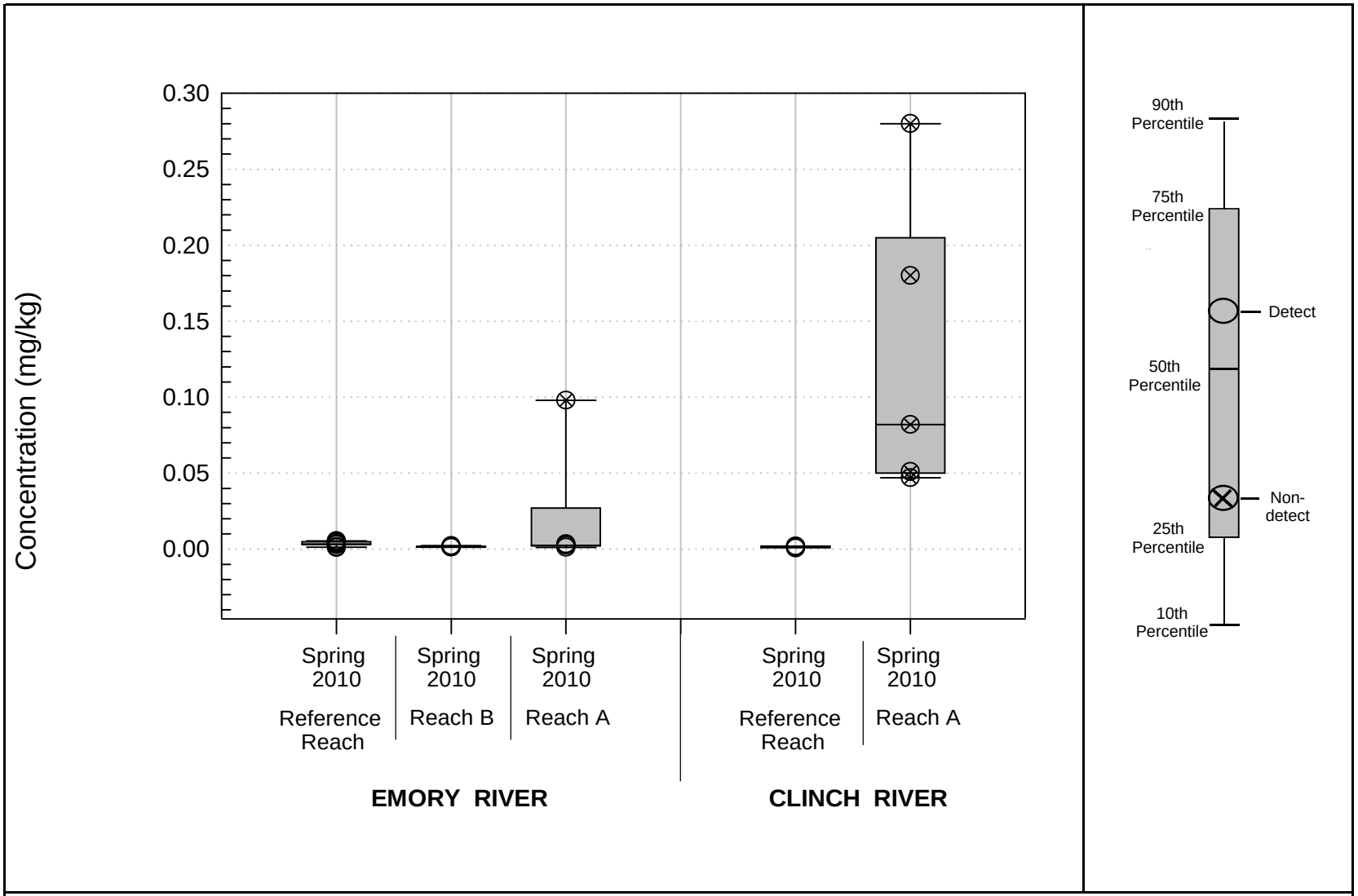
ARCADIS

Ovary
Bluegill - Potassium
TVA, Kingston



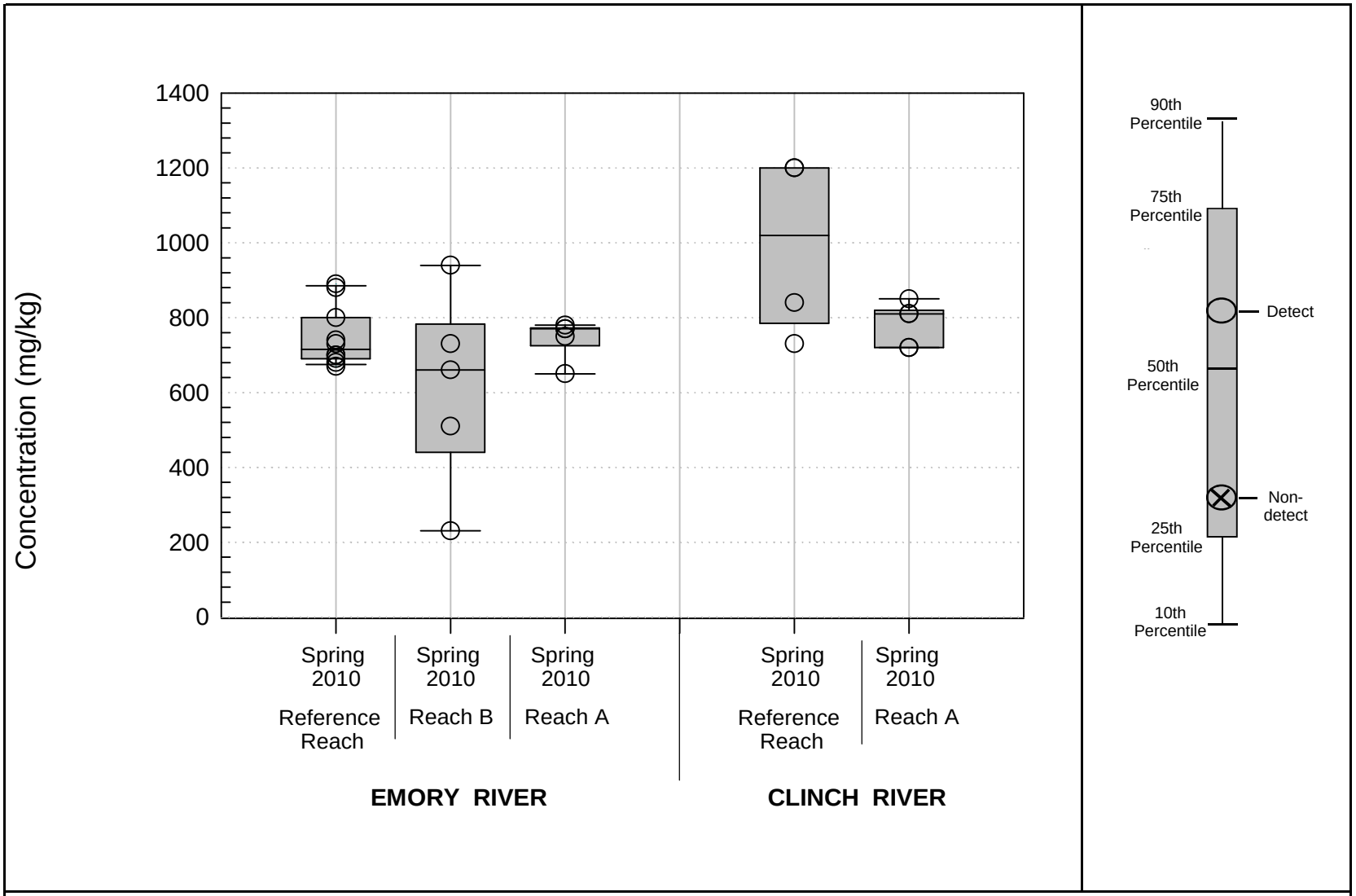
ARCADIS

Ovary
Bluegill - Selenium
TVA, Kingston



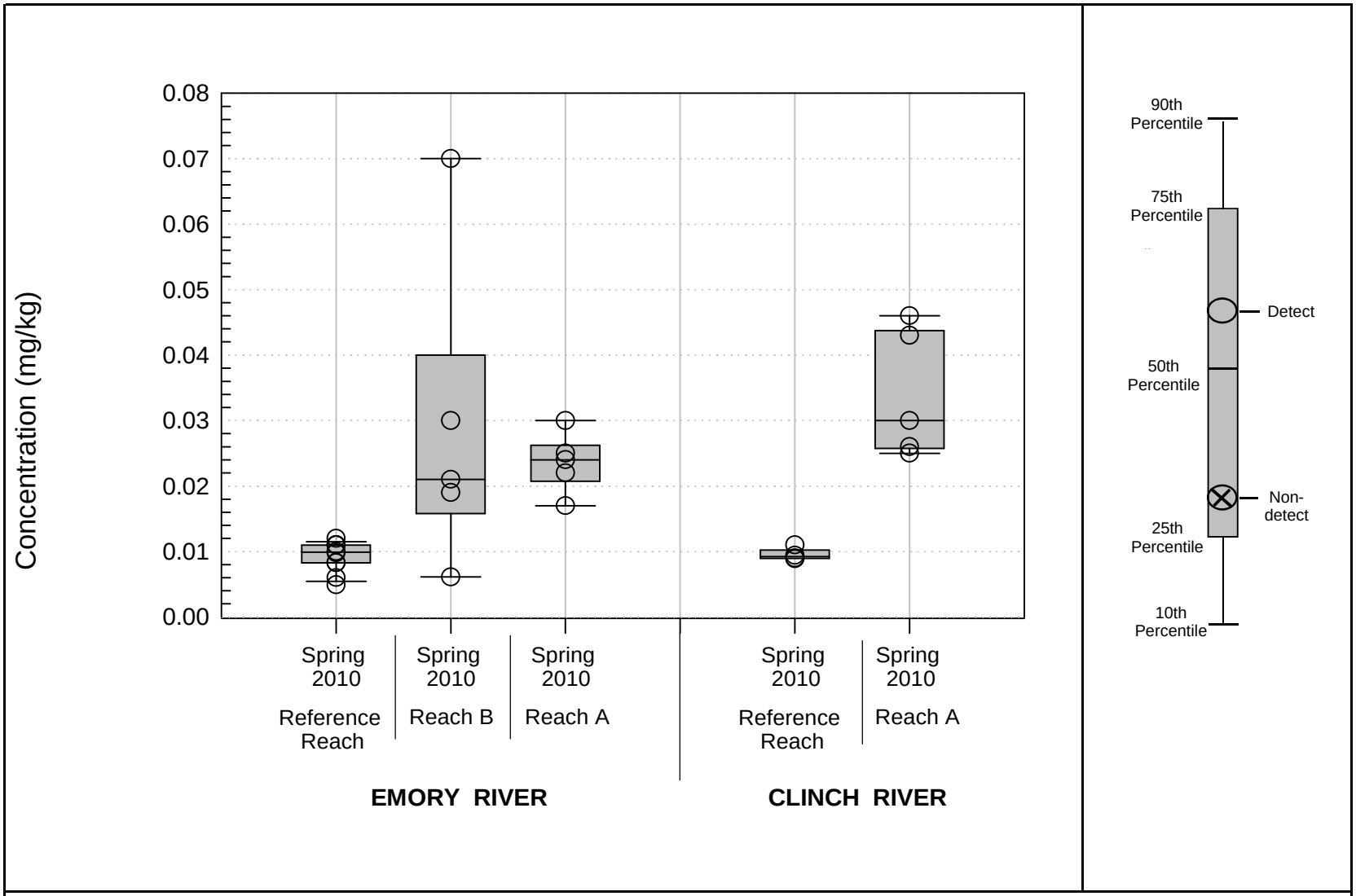
ARCADIS

Ovary
Bluegill - Silver
TVA, Kingston



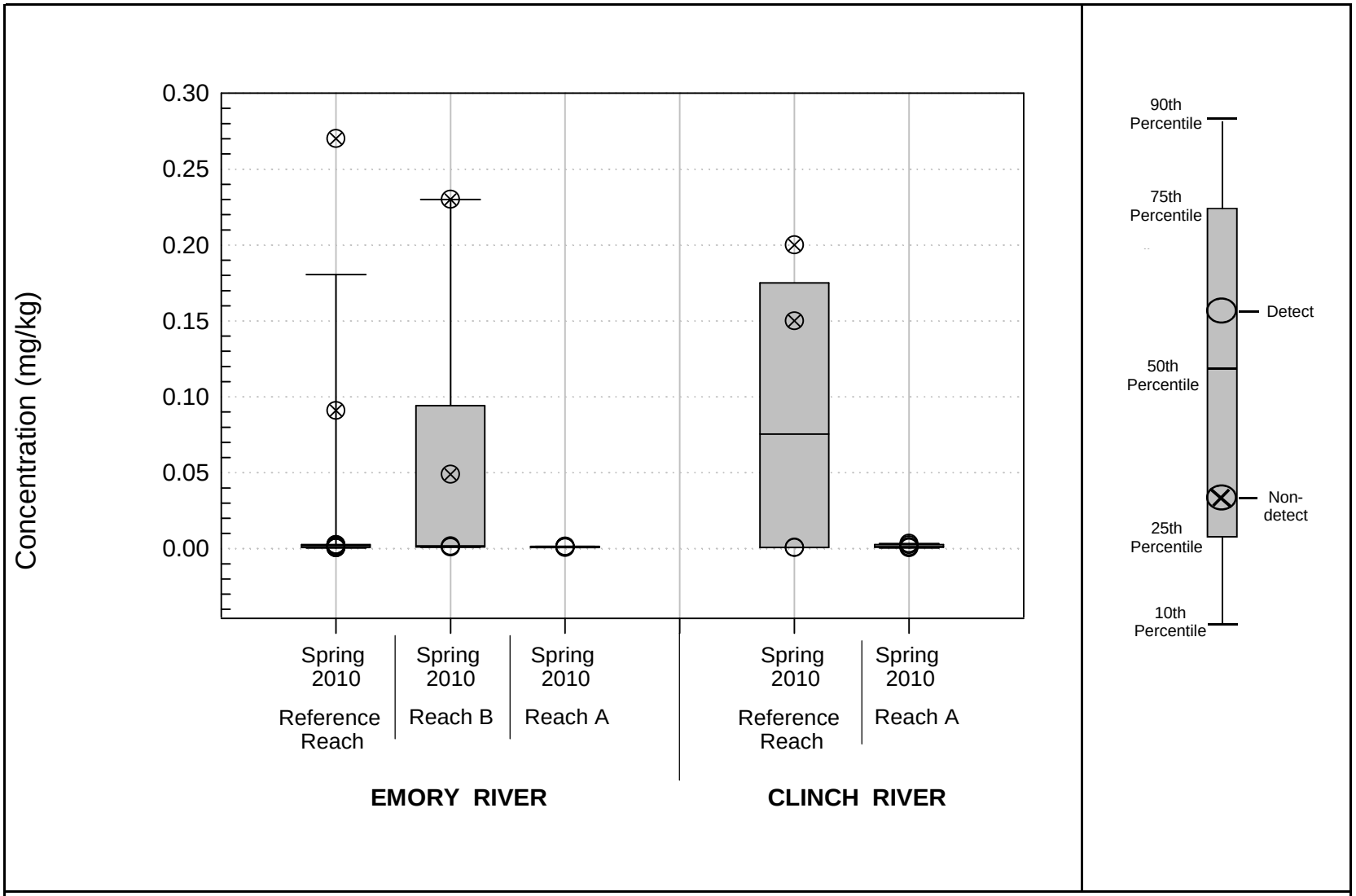
ARCADIS

Ovary
Bluegill - Sodium
TVA, Kingston



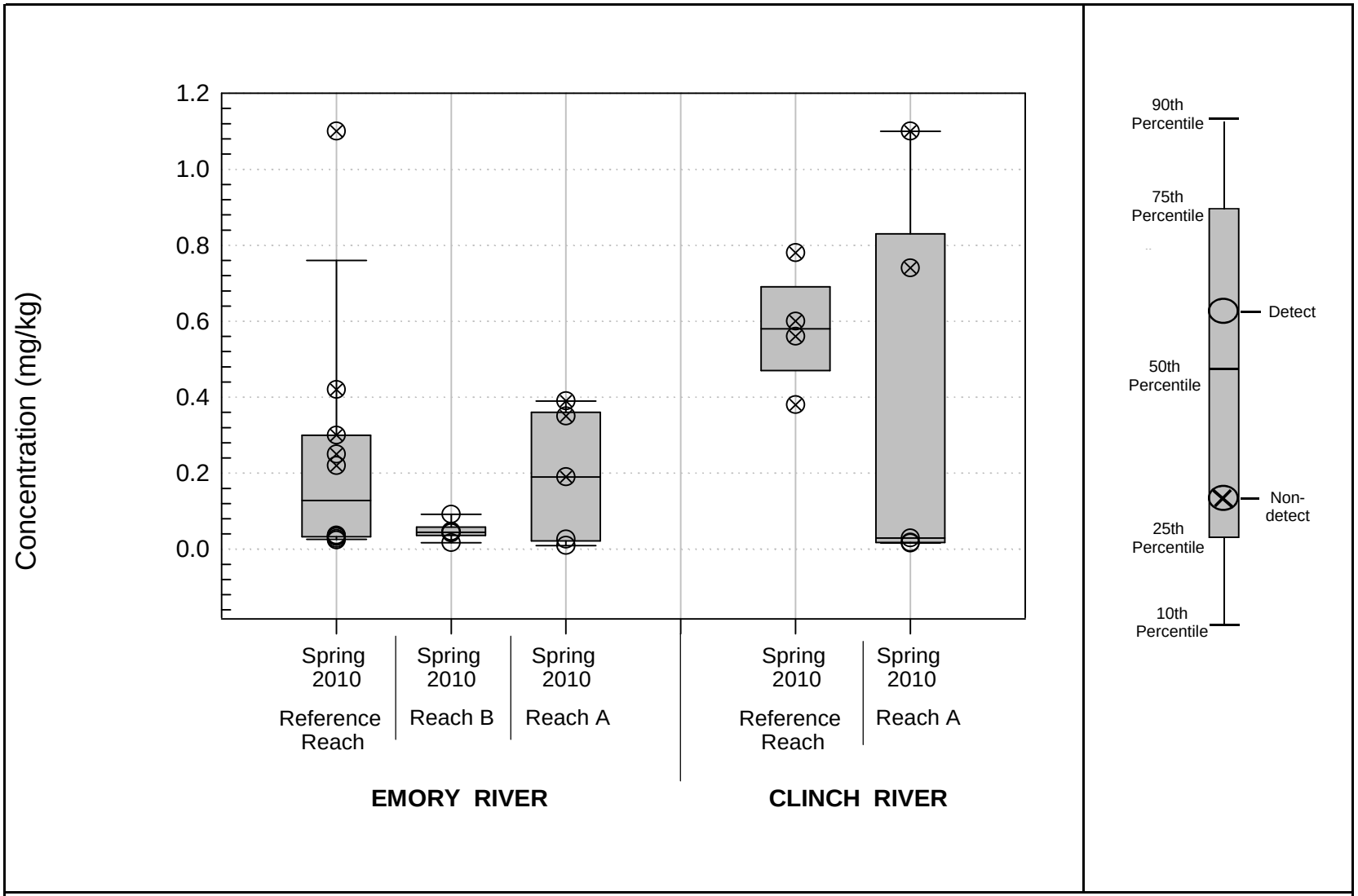
ARCADIS

Ovary
Bluegill - Thallium
TVA, Kingston



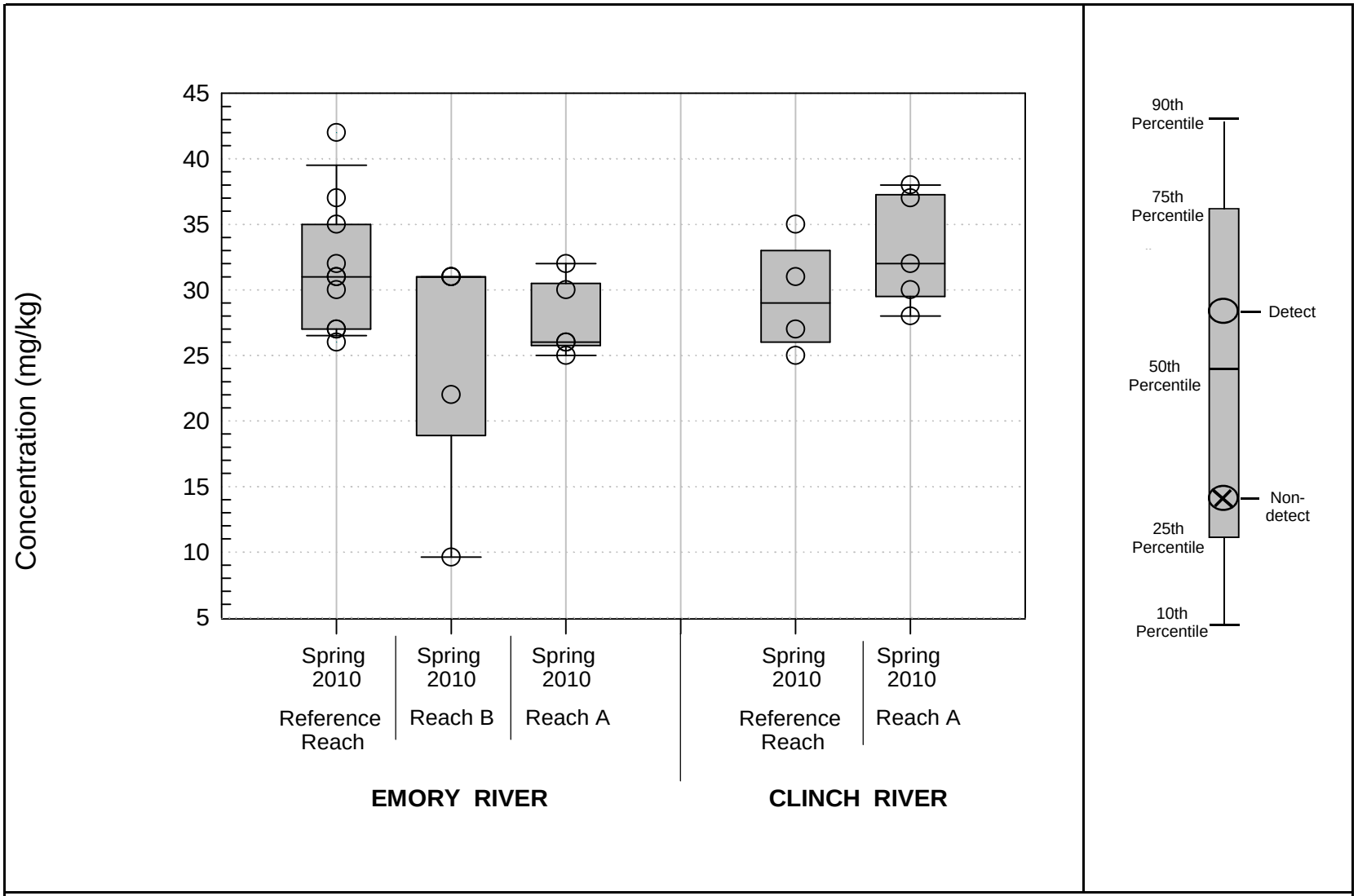
ARCADIS

Ovary
Bluegill - Uranium
TVA, Kingston



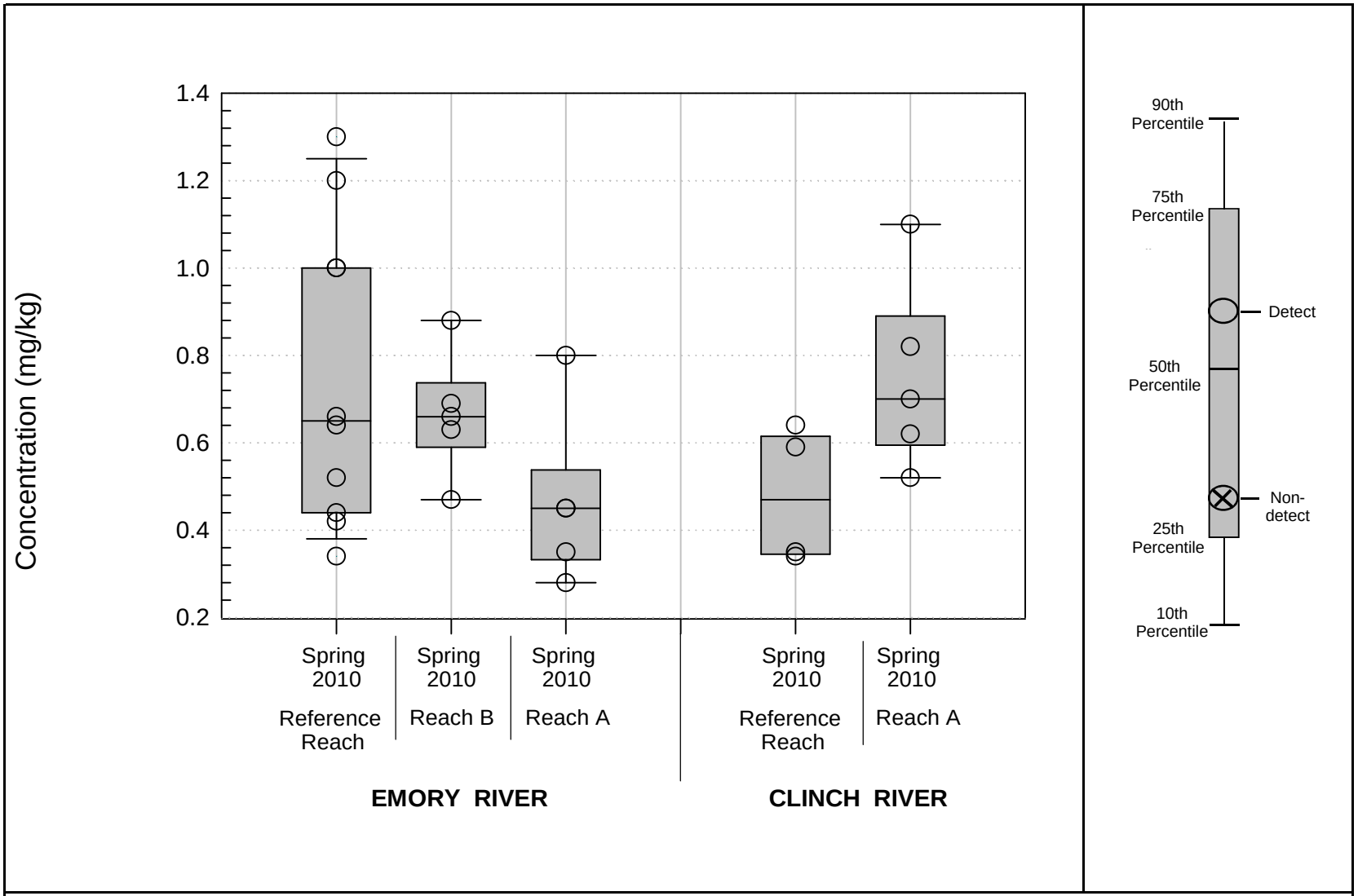
ARCADIS

Ovary
Bluegill - Vanadium
TVA, Kingston



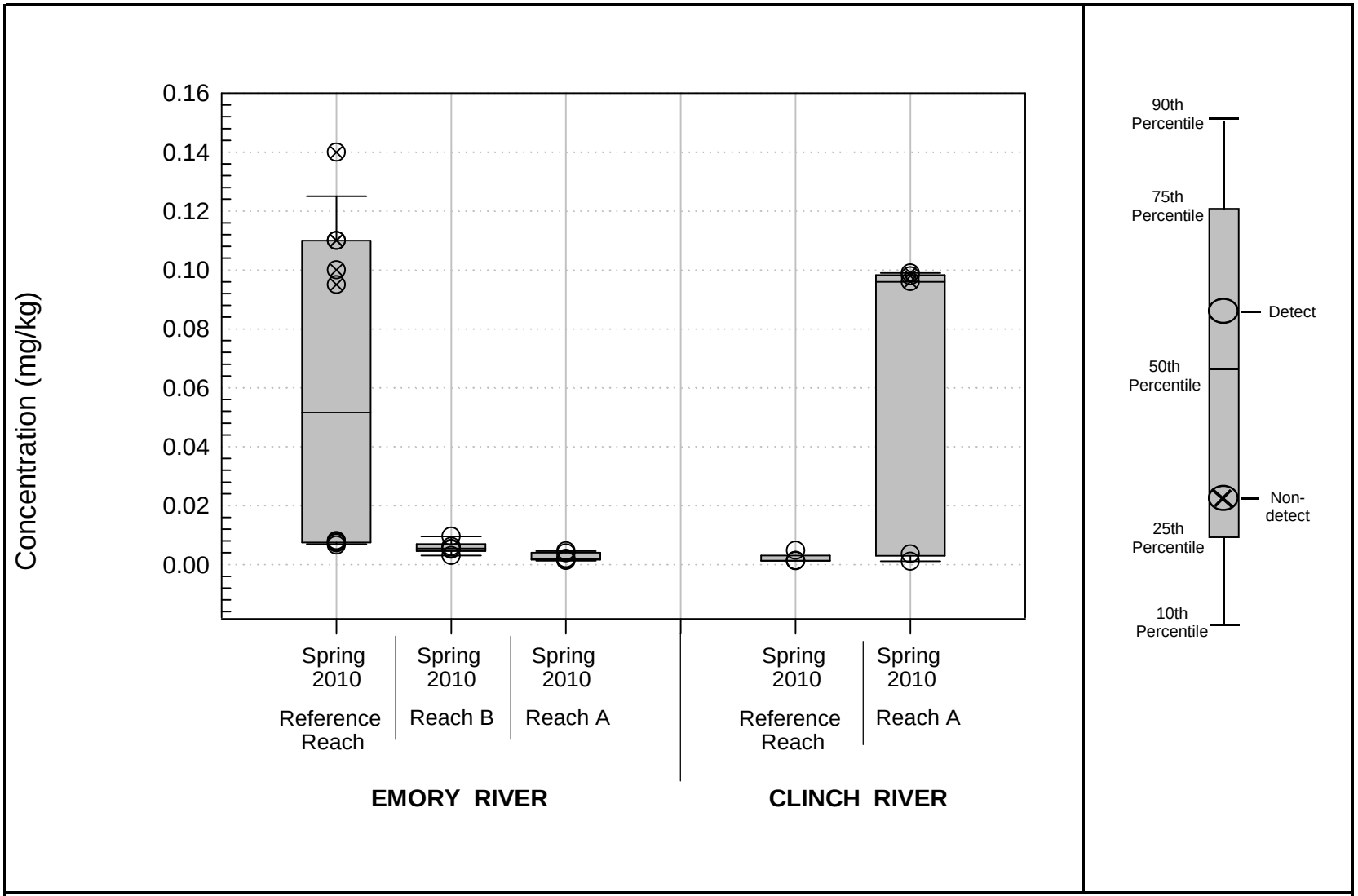
ARCADIS

Ovary
Bluegill - Zinc
TVA, Kingston



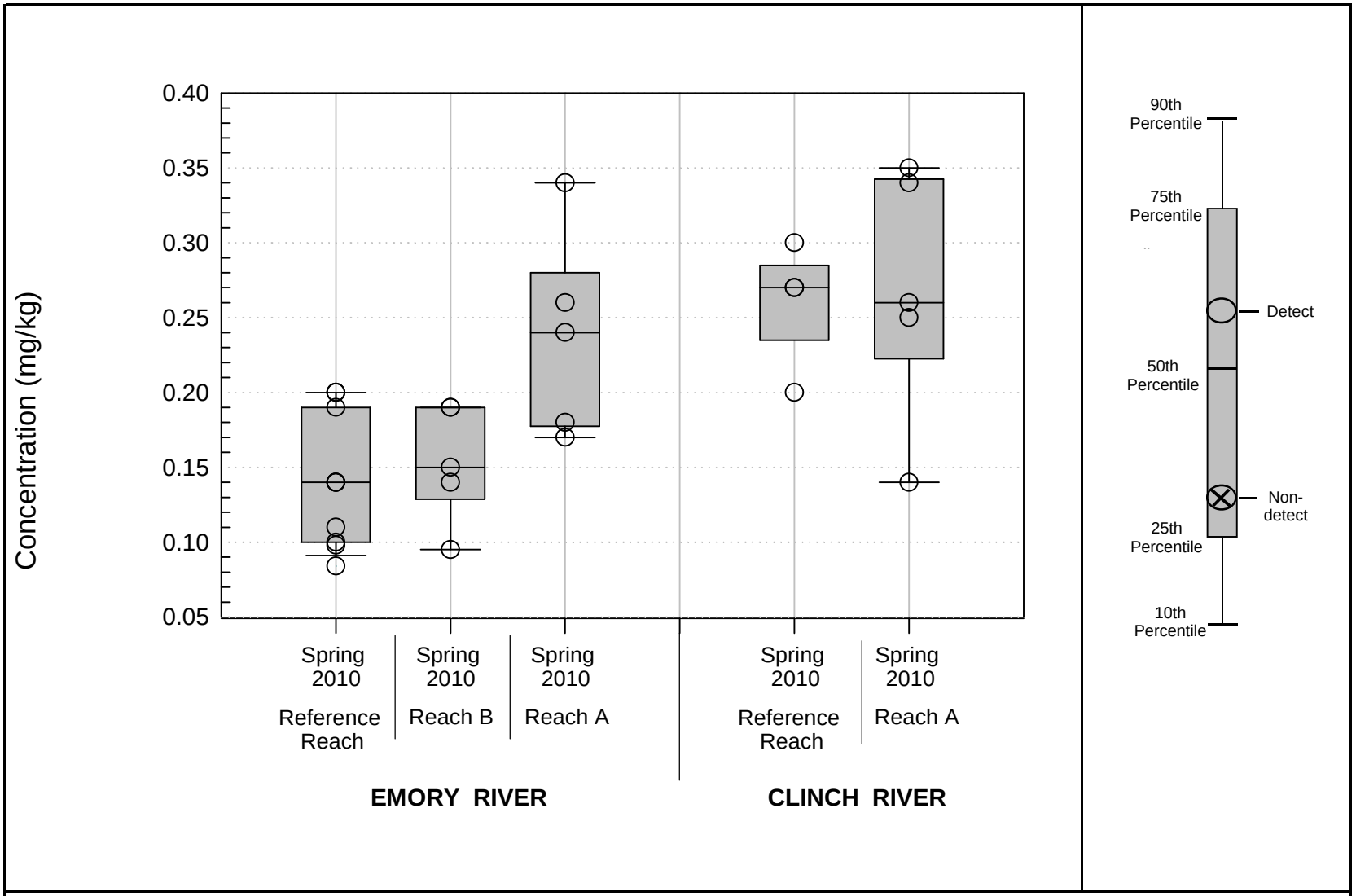
ARCADIS

Ovary
Largemouth Bass - Aluminum
TVA, Kingston



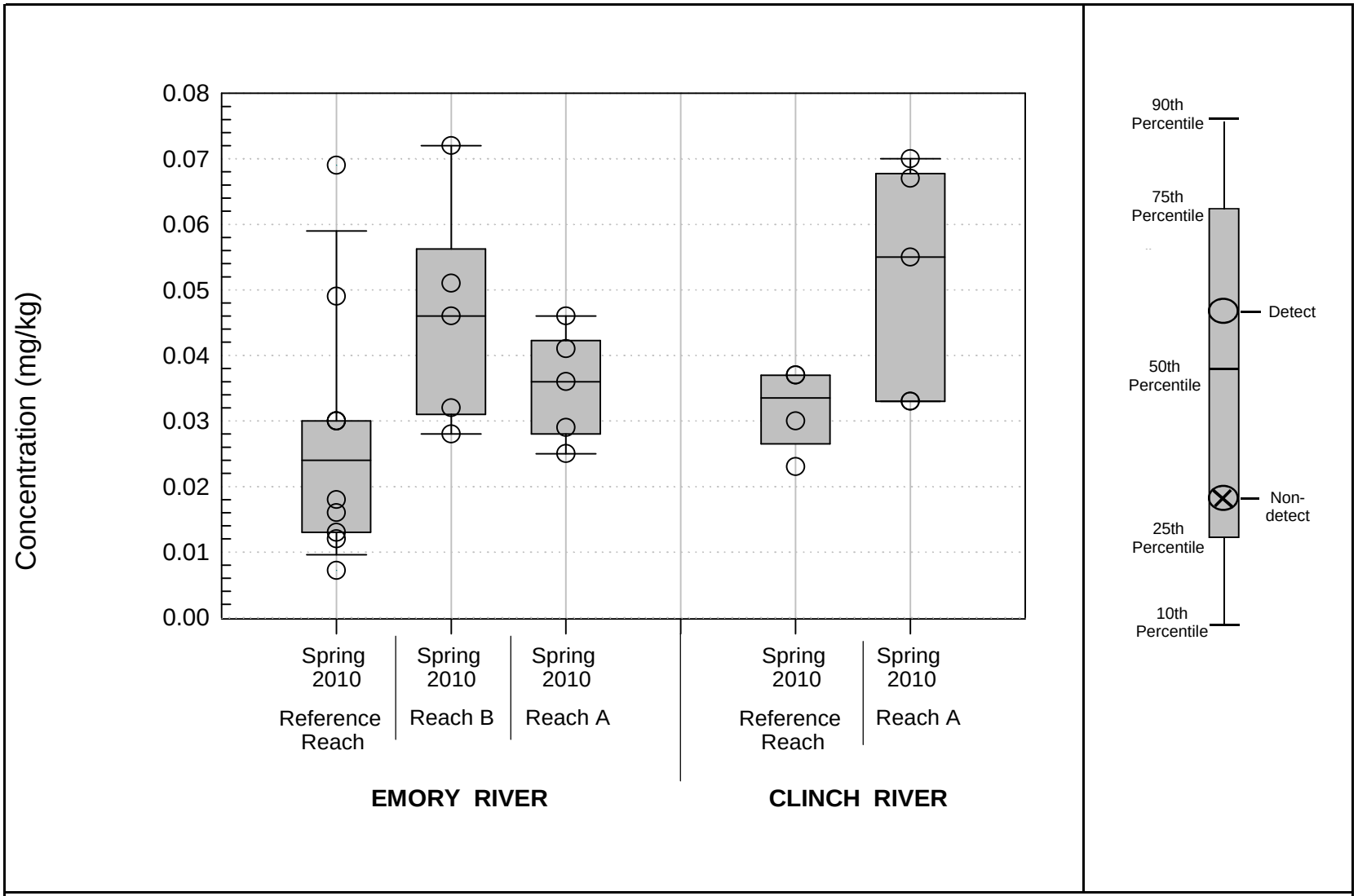
ARCADIS

Ovary
Largemouth Bass - Antimony
TVA, Kingston



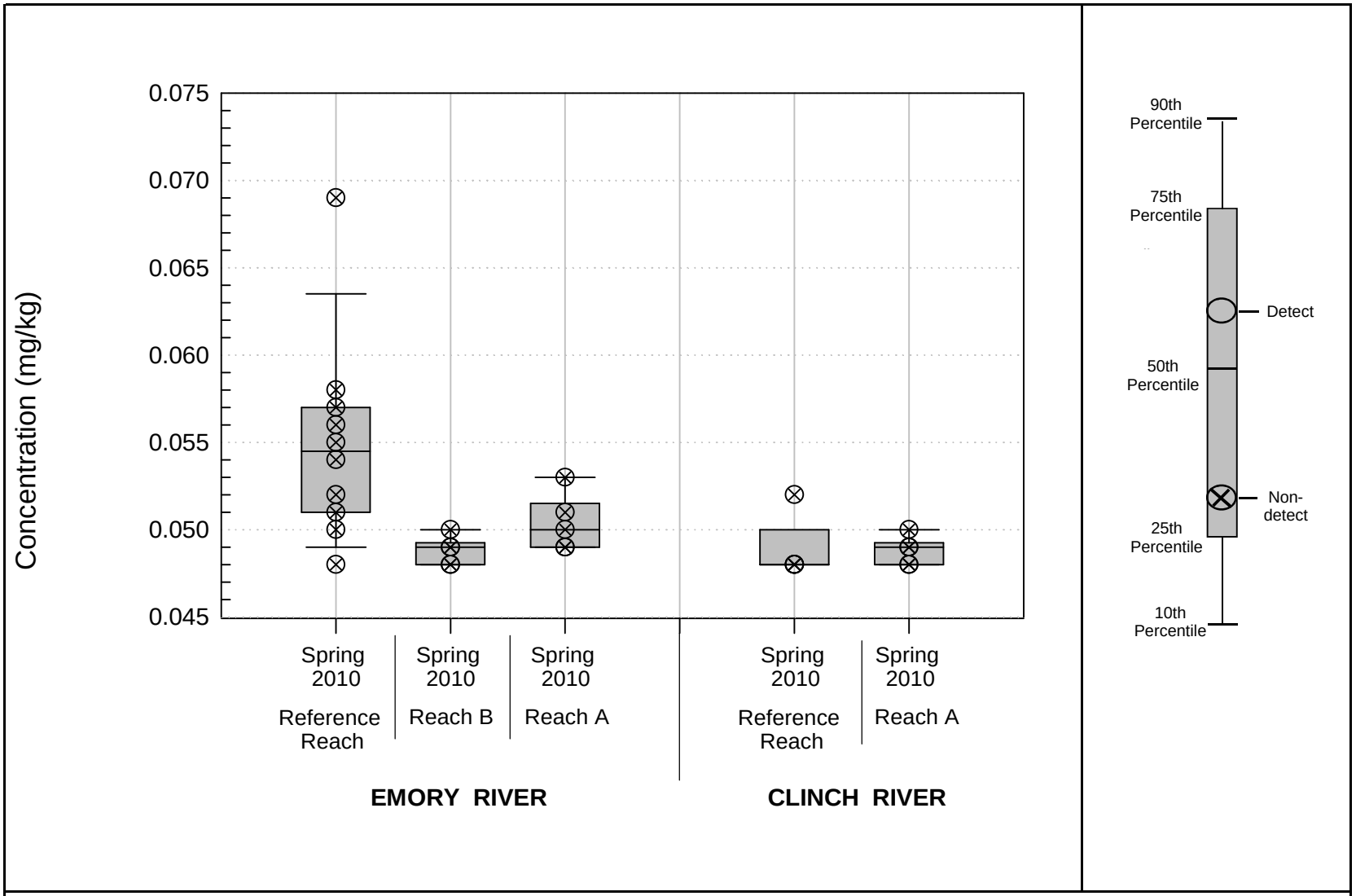
ARCADIS

Ovary
Largemouth Bass - Arsenic
TVA, Kingston



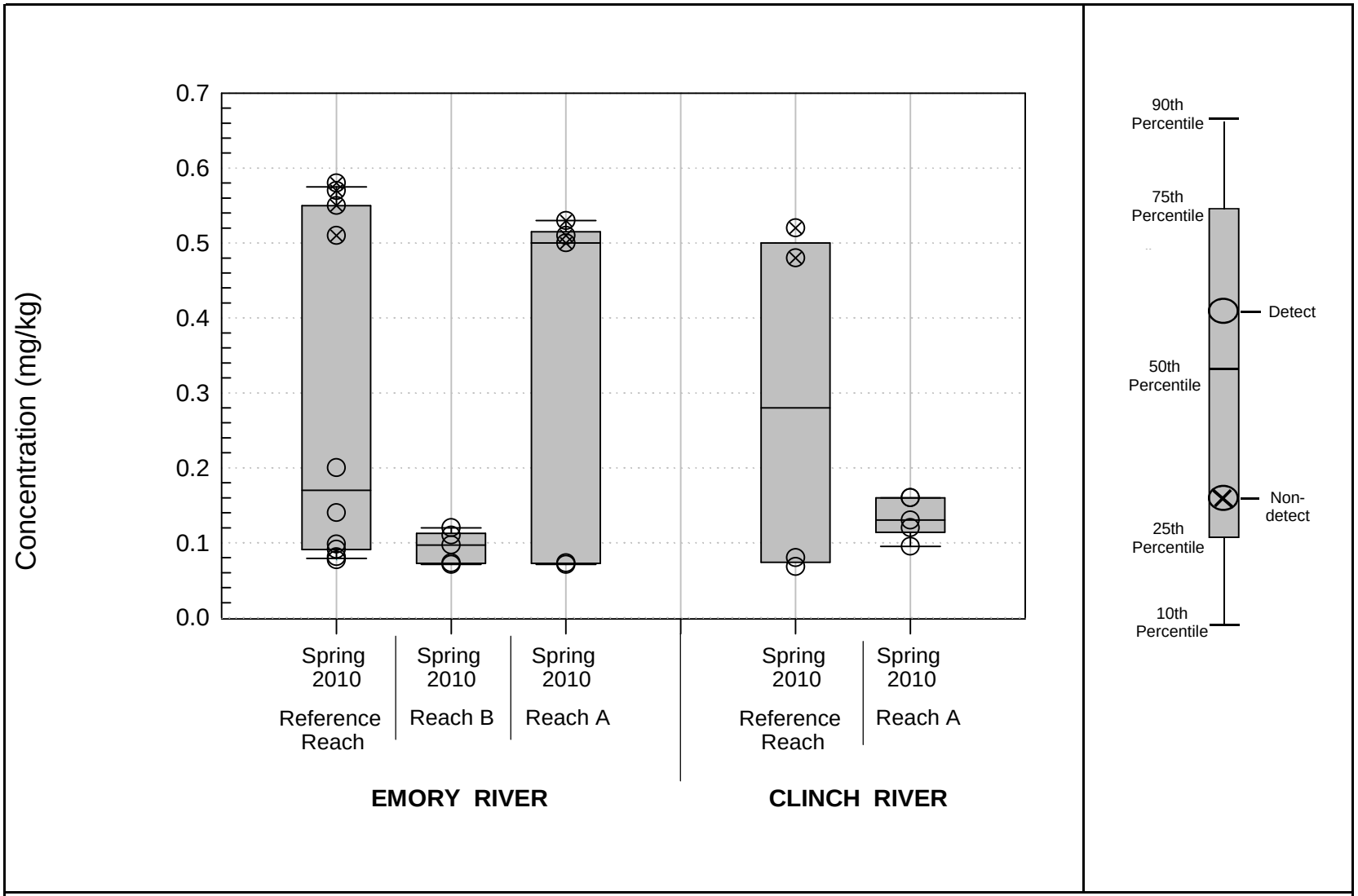
ARCADIS

Ovary
Largemouth Bass - Barium
TVA, Kingston



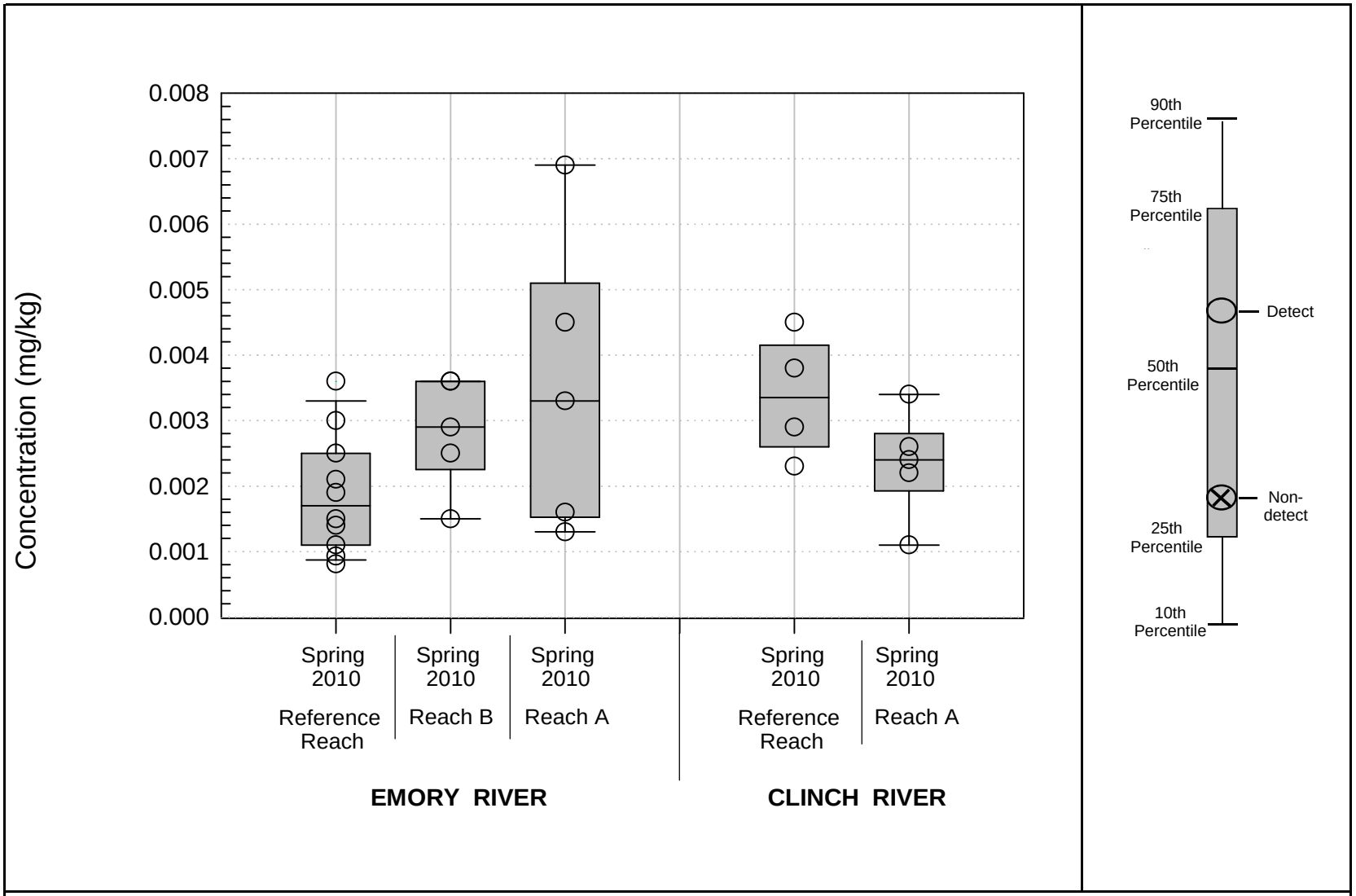
ARCADIS

Ovary
Largemouth Bass - Beryllium
TVA, Kingston



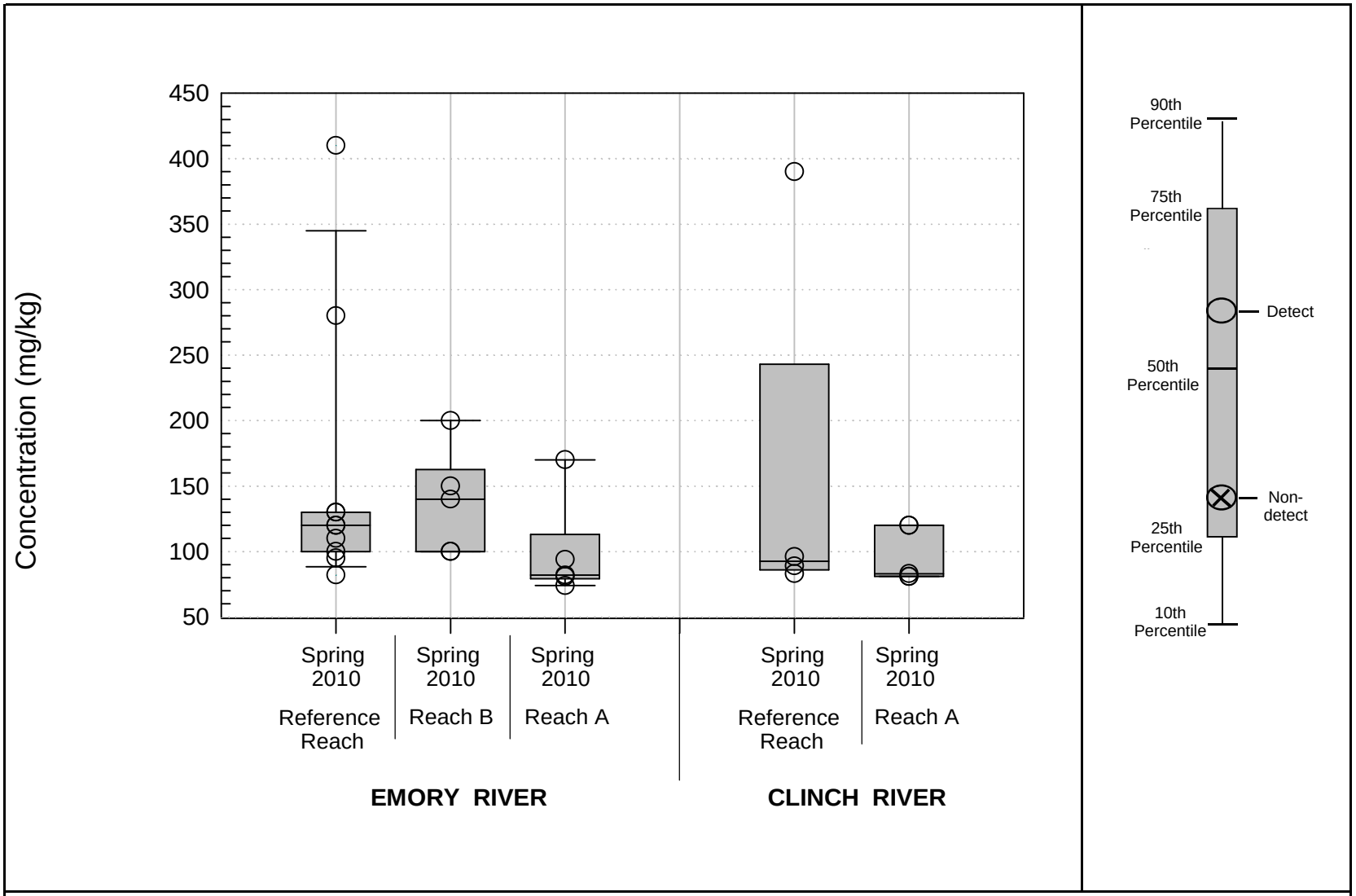
ARCADIS

Ovary
Largemouth Bass - Boron
TVA, Kingston



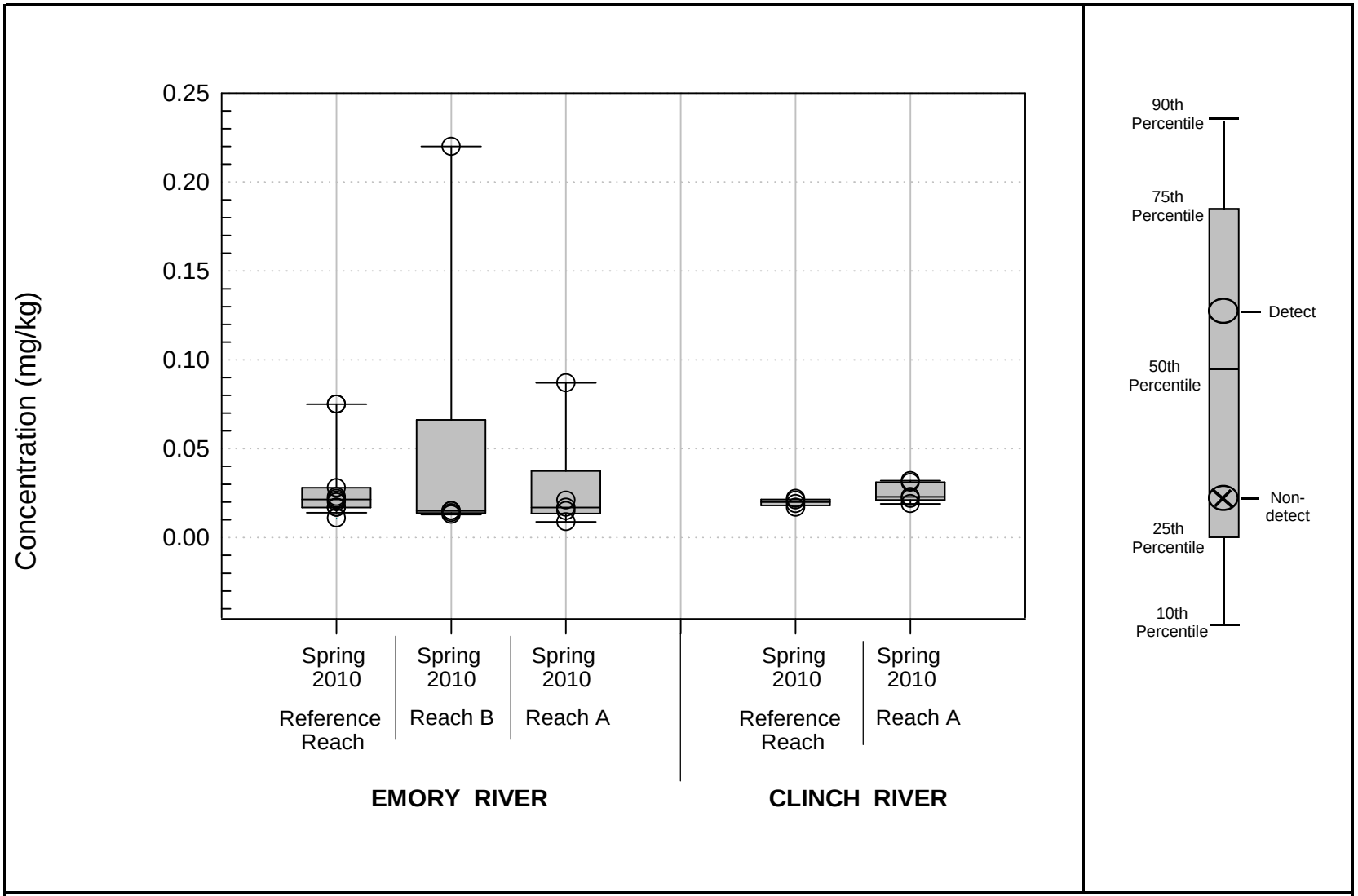
ARCADIS

Ovary
Largemouth Bass - Cadmium
TVA, Kingston



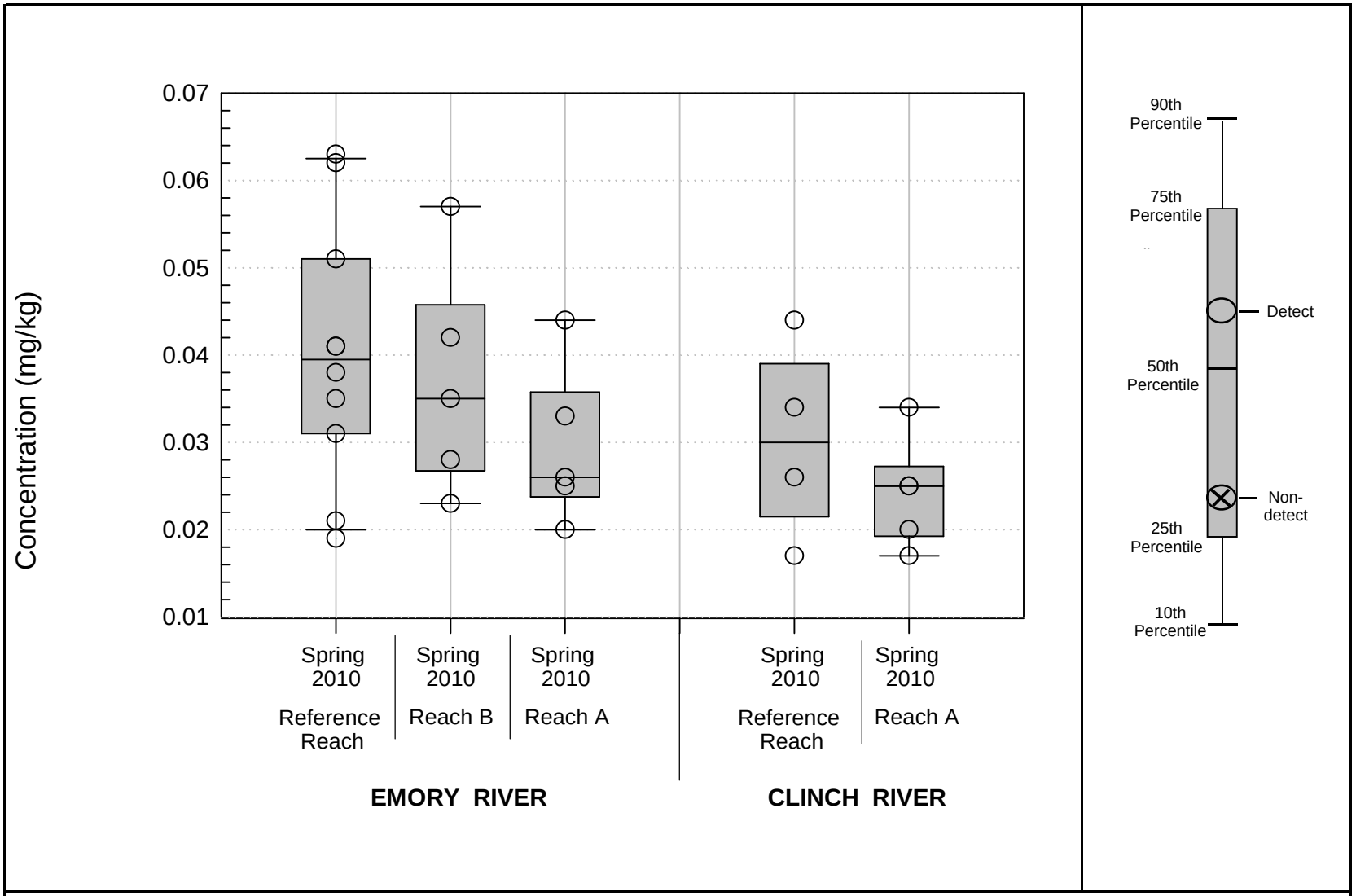
ARCADIS

Ovary
Largemouth Bass - Calcium
TVA, Kingston



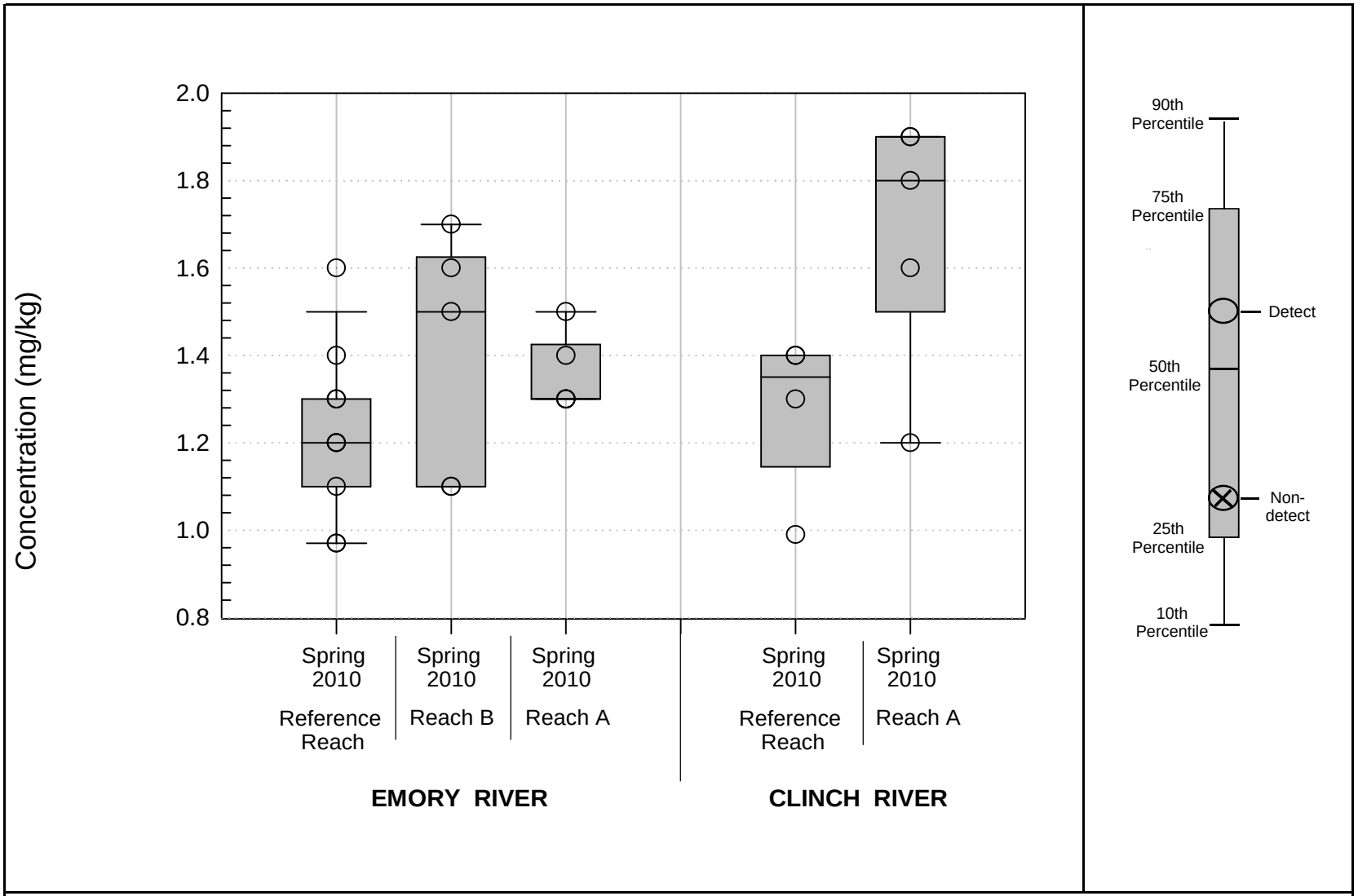
ARCADIS

Ovary
Largemouth Bass - Chromium
TVA, Kingston



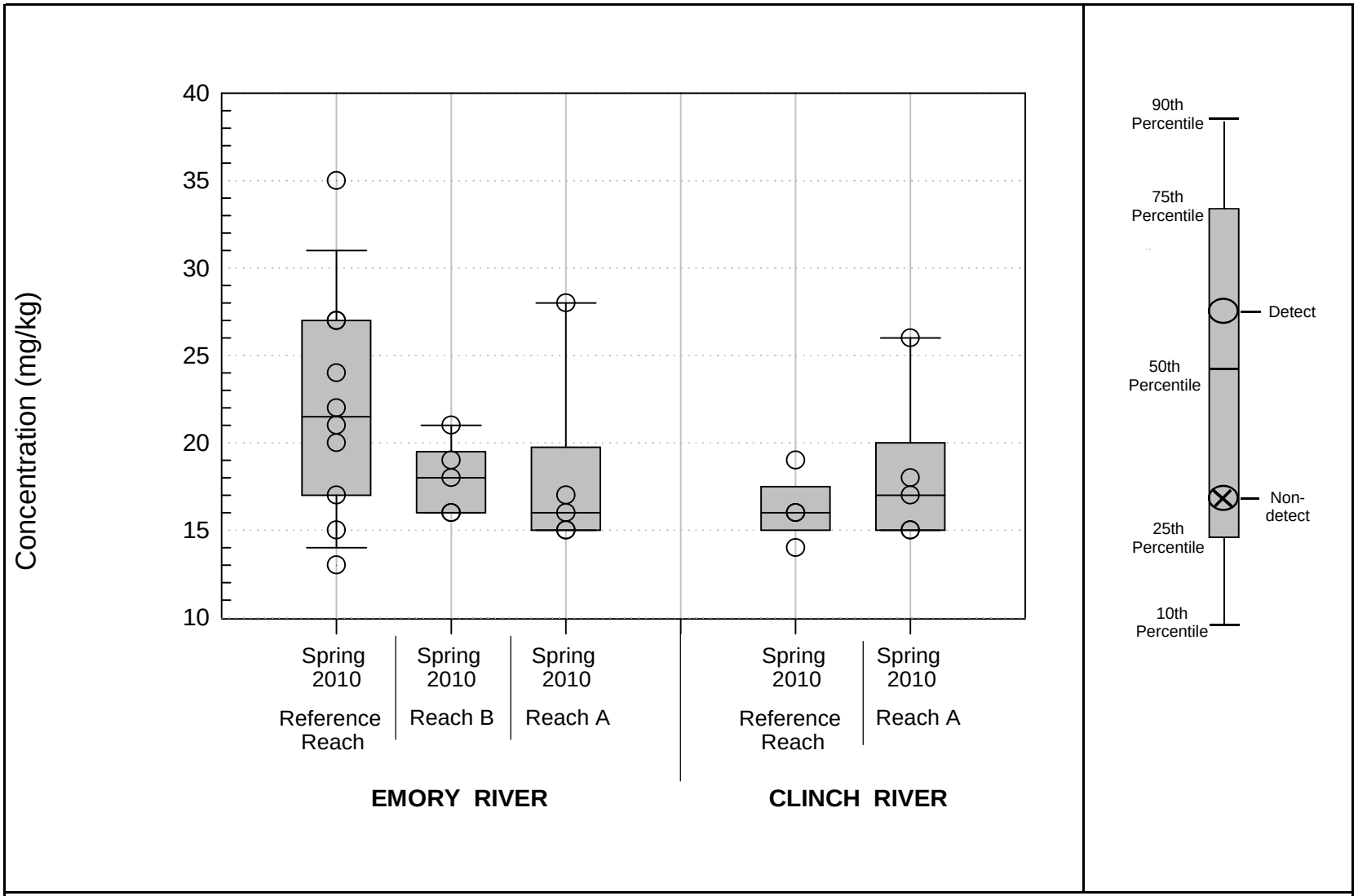
ARCADIS

Ovary
Largemouth Bass - Cobalt
TVA, Kingston



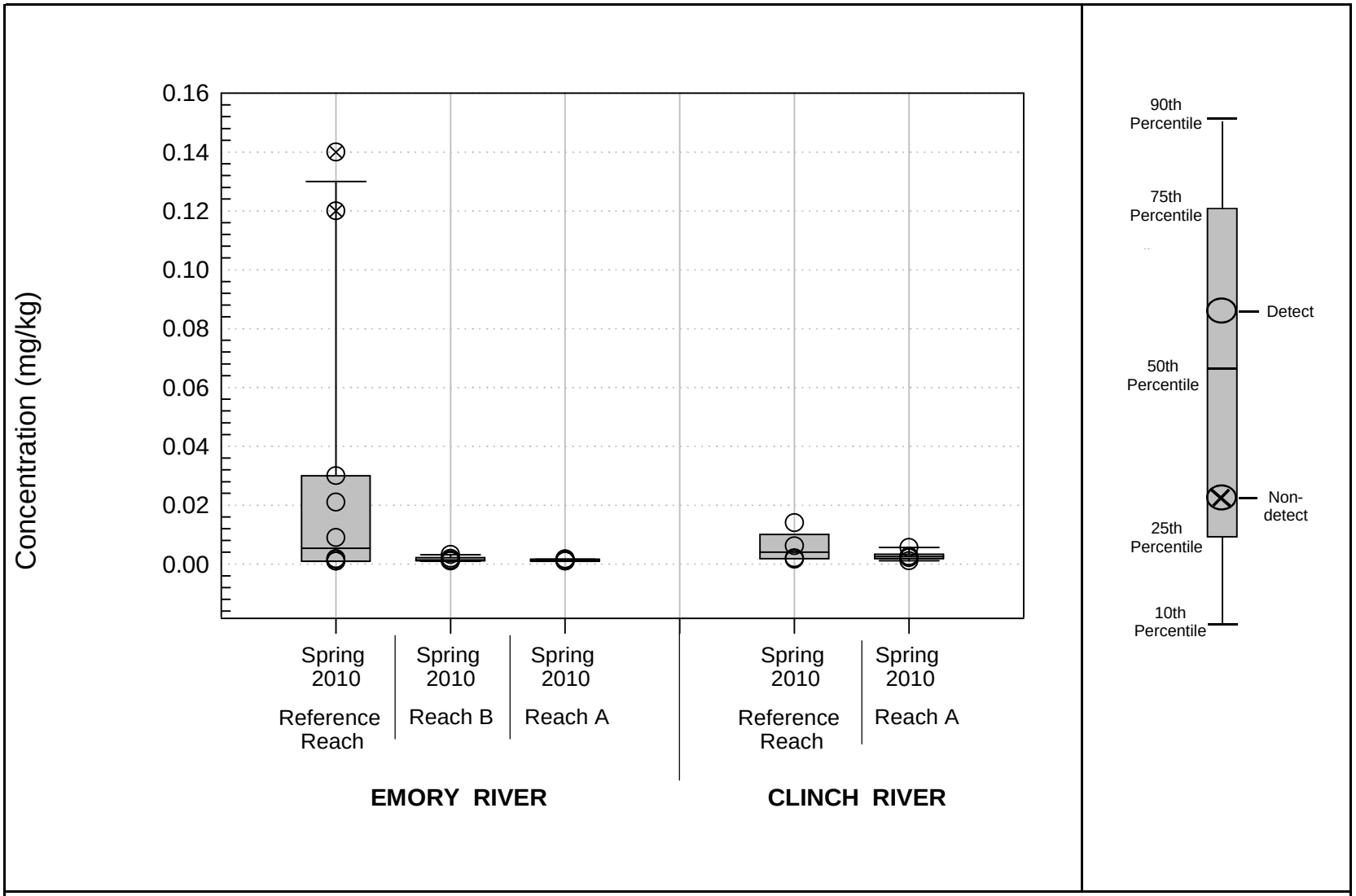
ARCADIS

Ovary
Largemouth Bass - Copper
TVA, Kingston



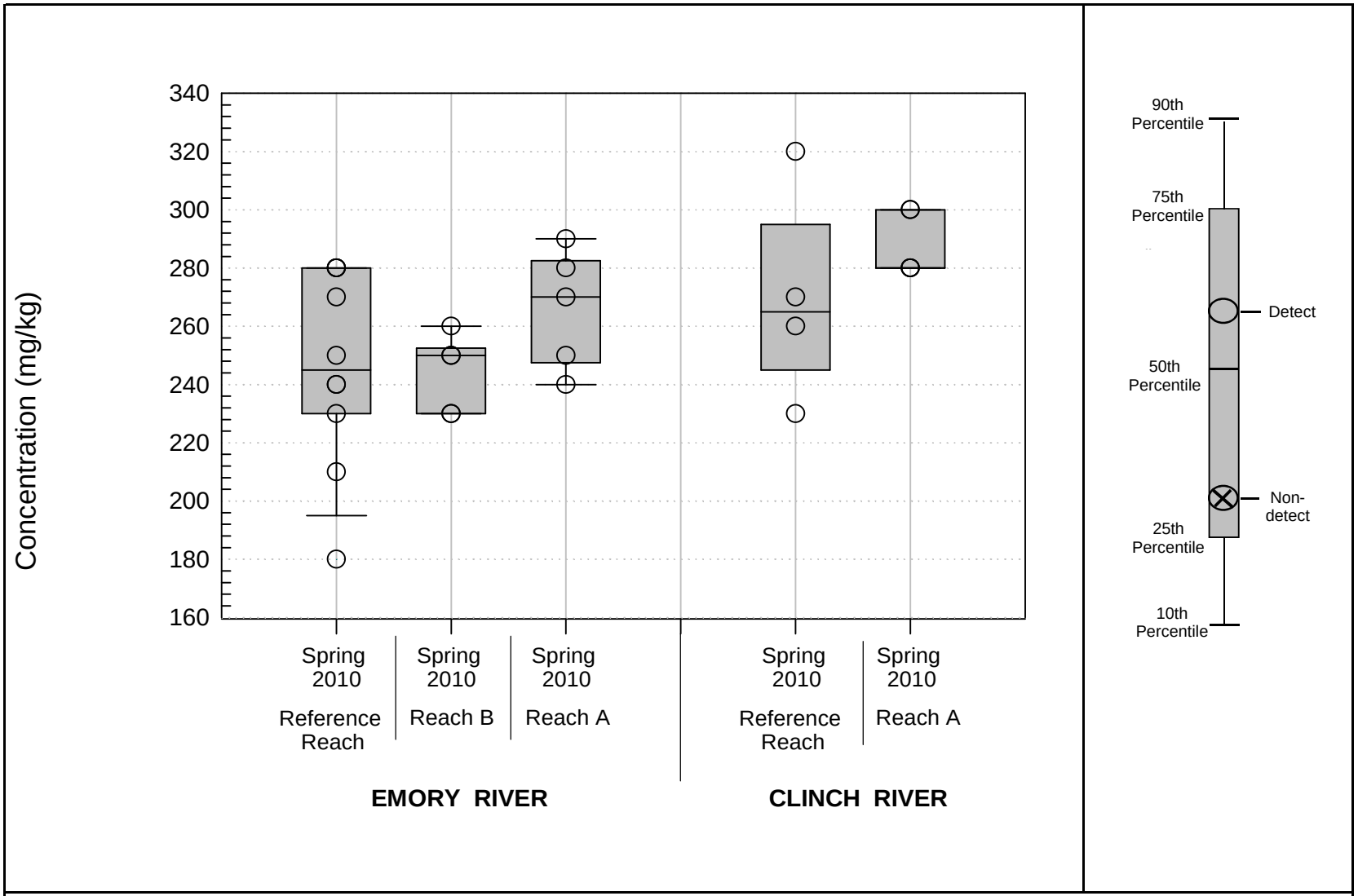
ARCADIS

Ovary
Largemouth Bass - Iron
TVA, Kingston



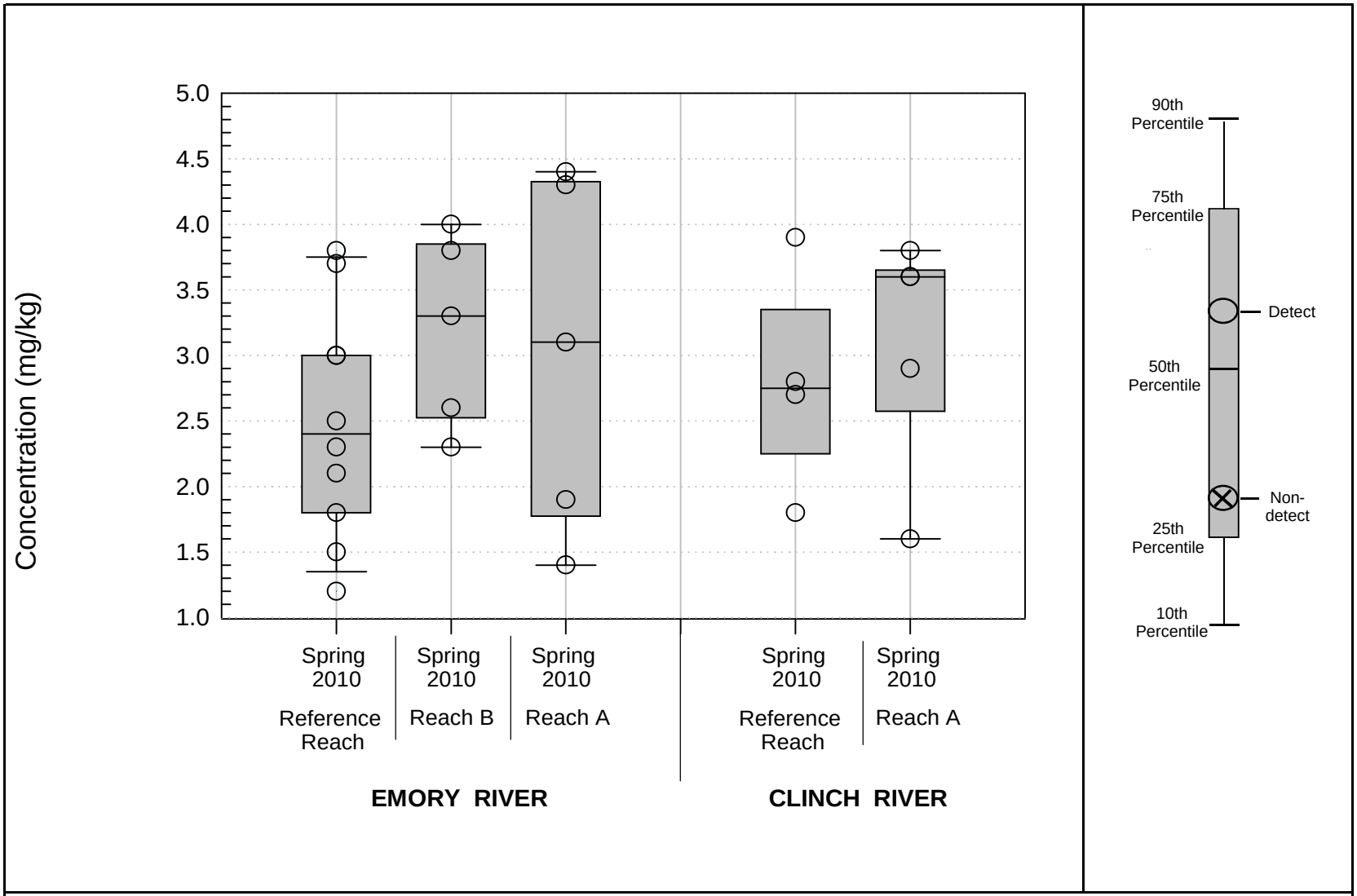
ARCADIS

Ovary
Largemouth Bass - Lead
TVA, Kingston



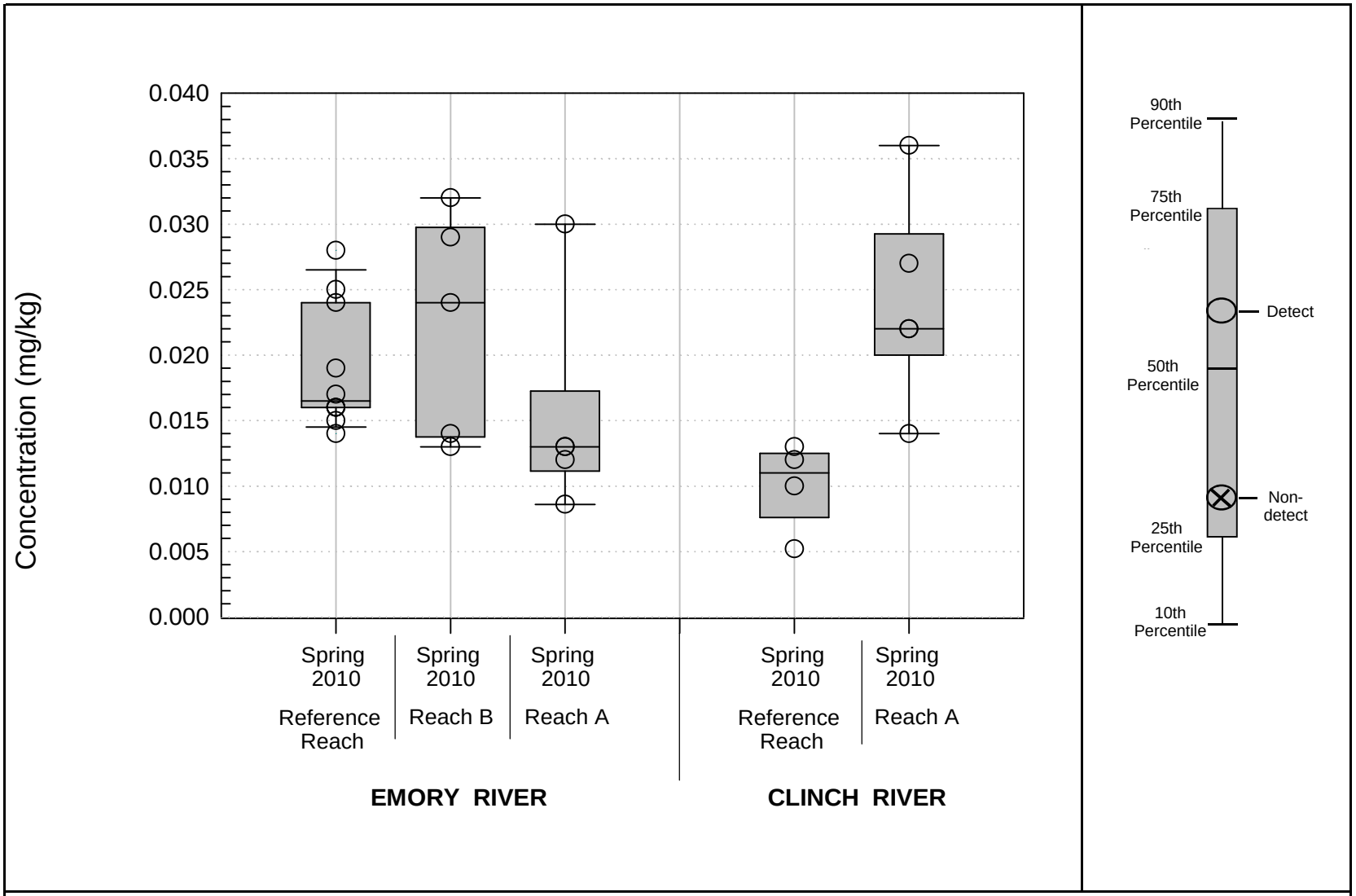
ARCADIS

Ovary
Largemouth Bass - Magnesium
TVA, Kingston



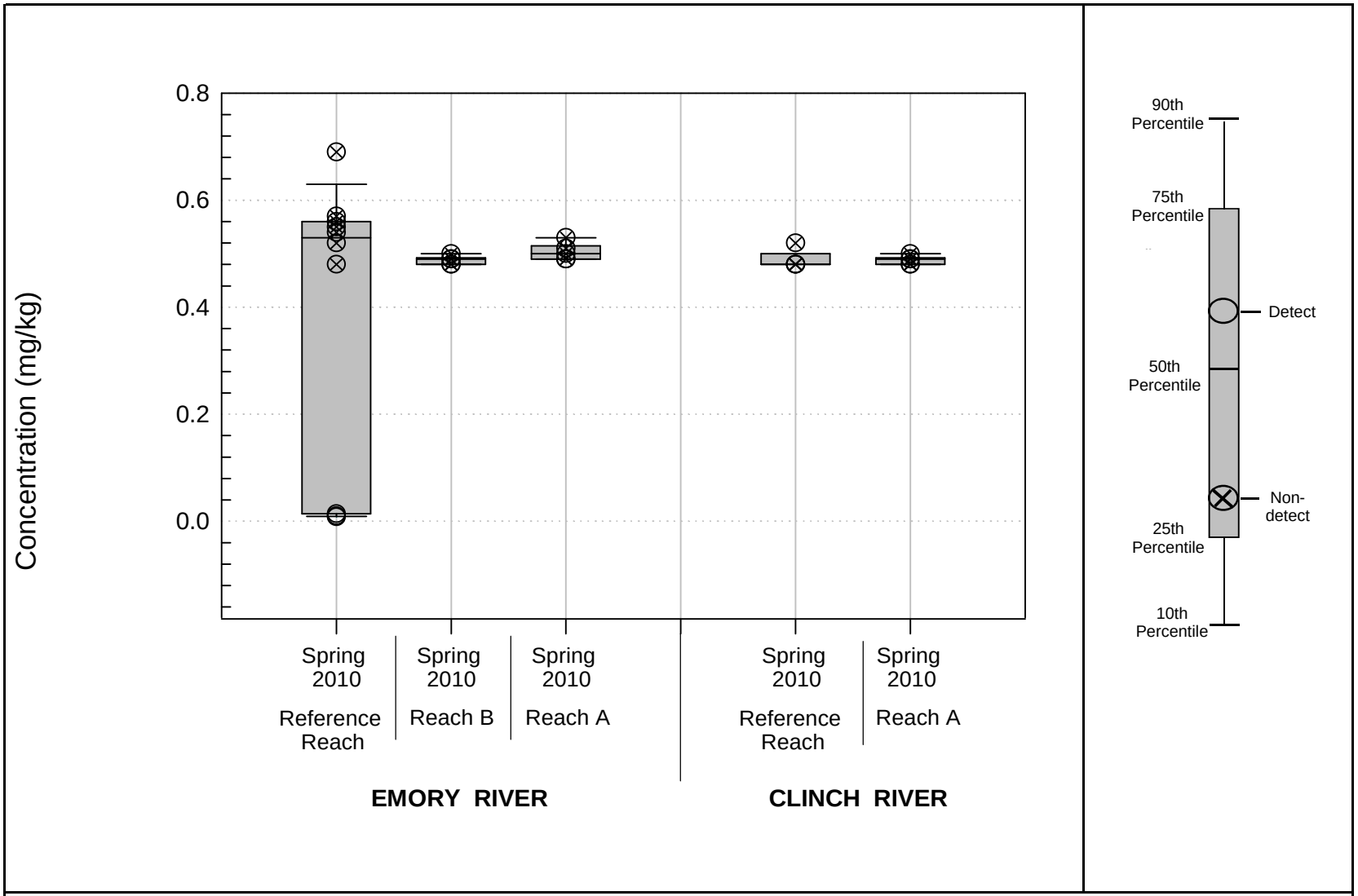
ARCADIS

Ovary
Largemouth Bass - Manganese
TVA, Kingston



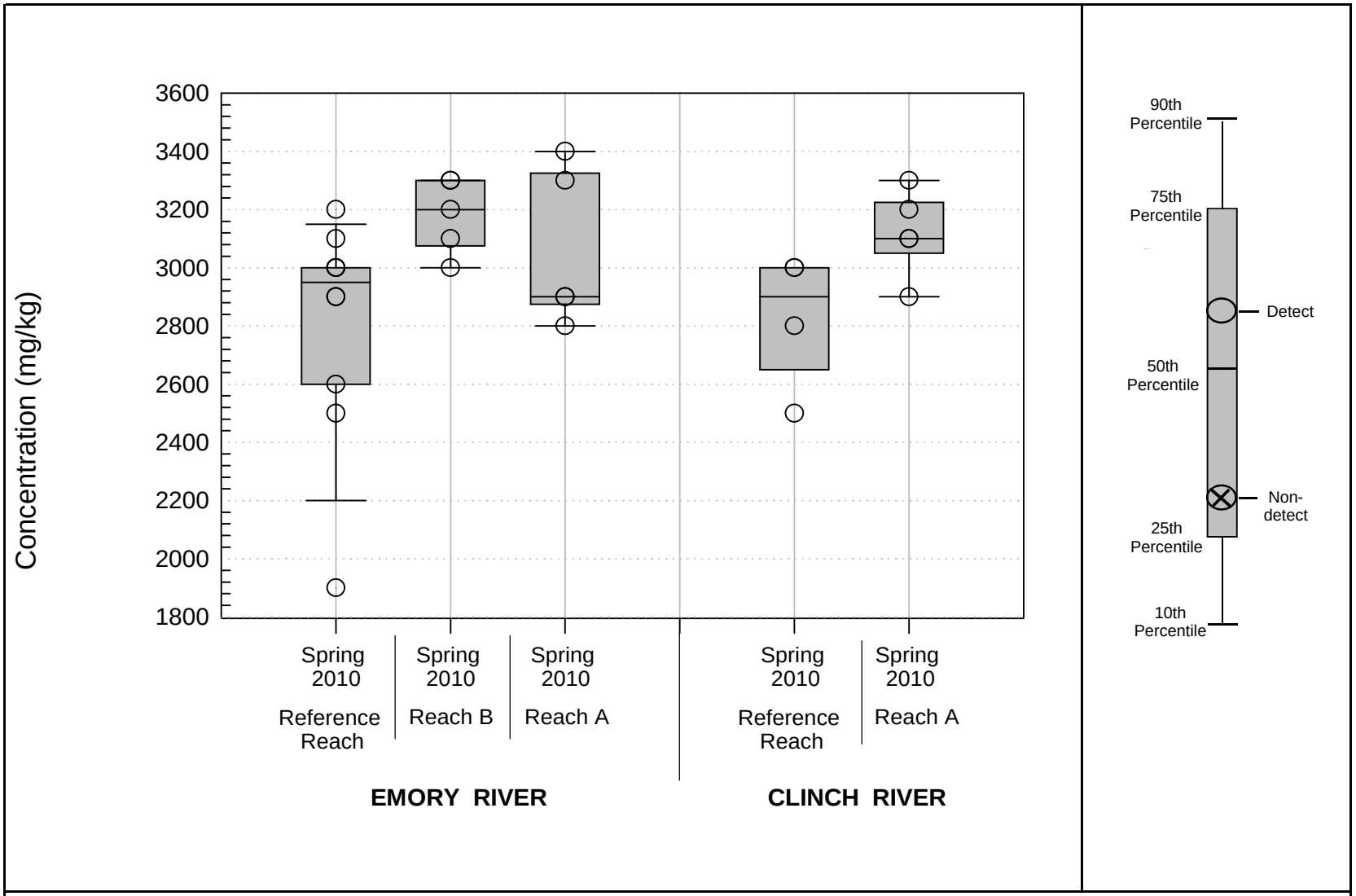
ARCADIS

Ovary
Largemouth Bass - Molybdenum
TVA, Kingston



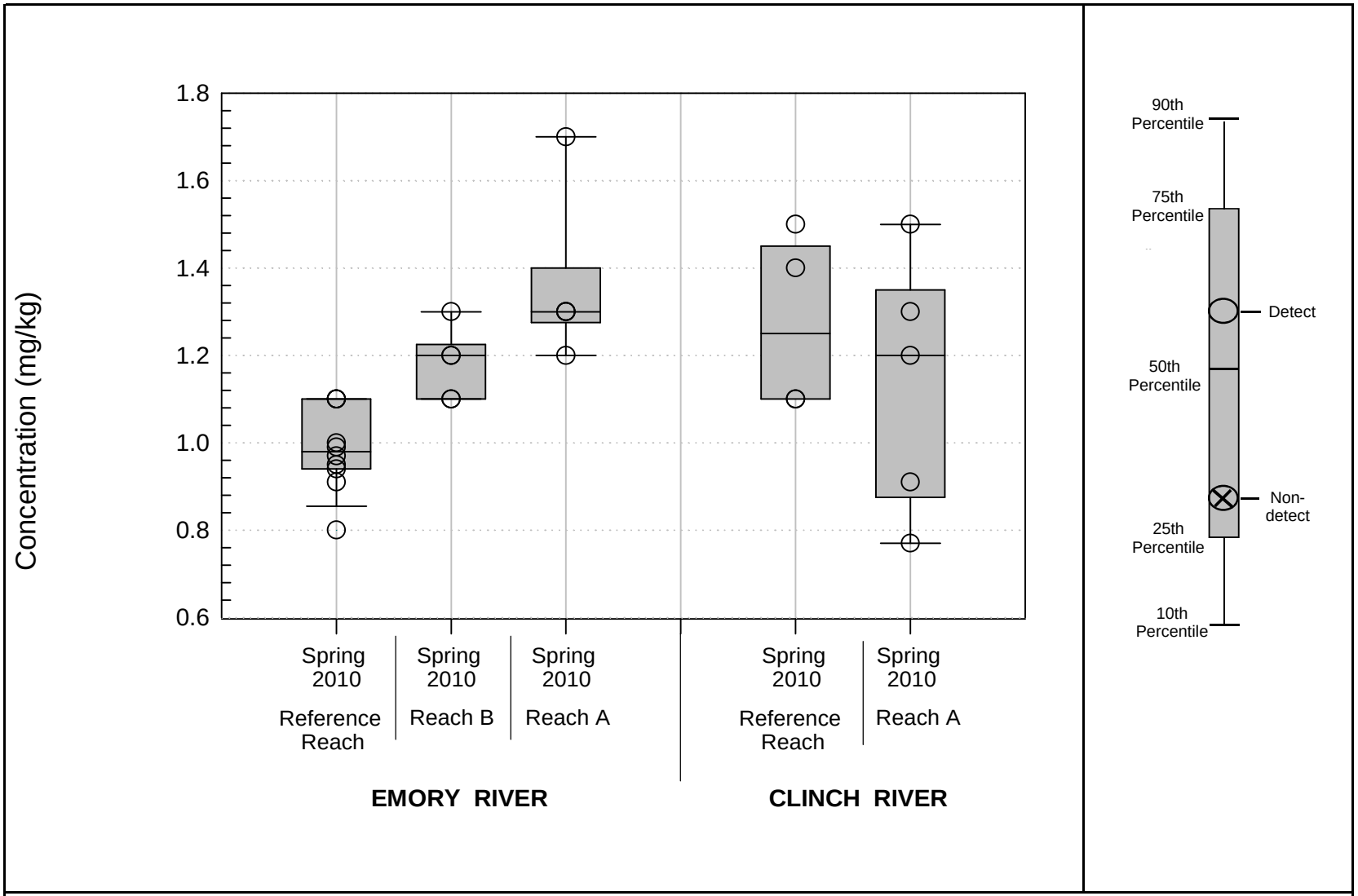
ARCADIS

Ovary
Largemouth Bass - Nickel
TVA, Kingston



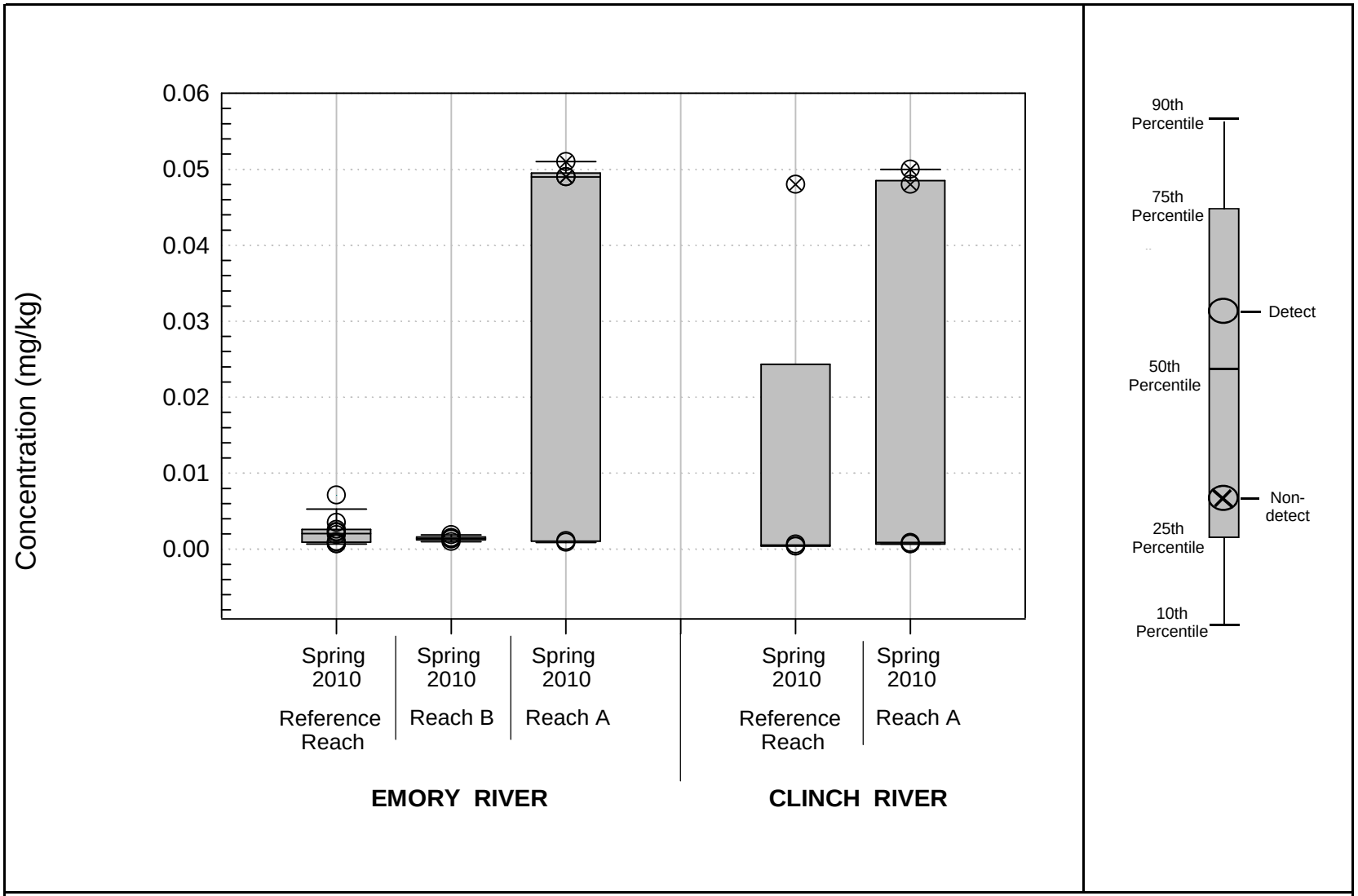
ARCADIS

Ovary
Largemouth Bass - Potassium
TVA, Kingston



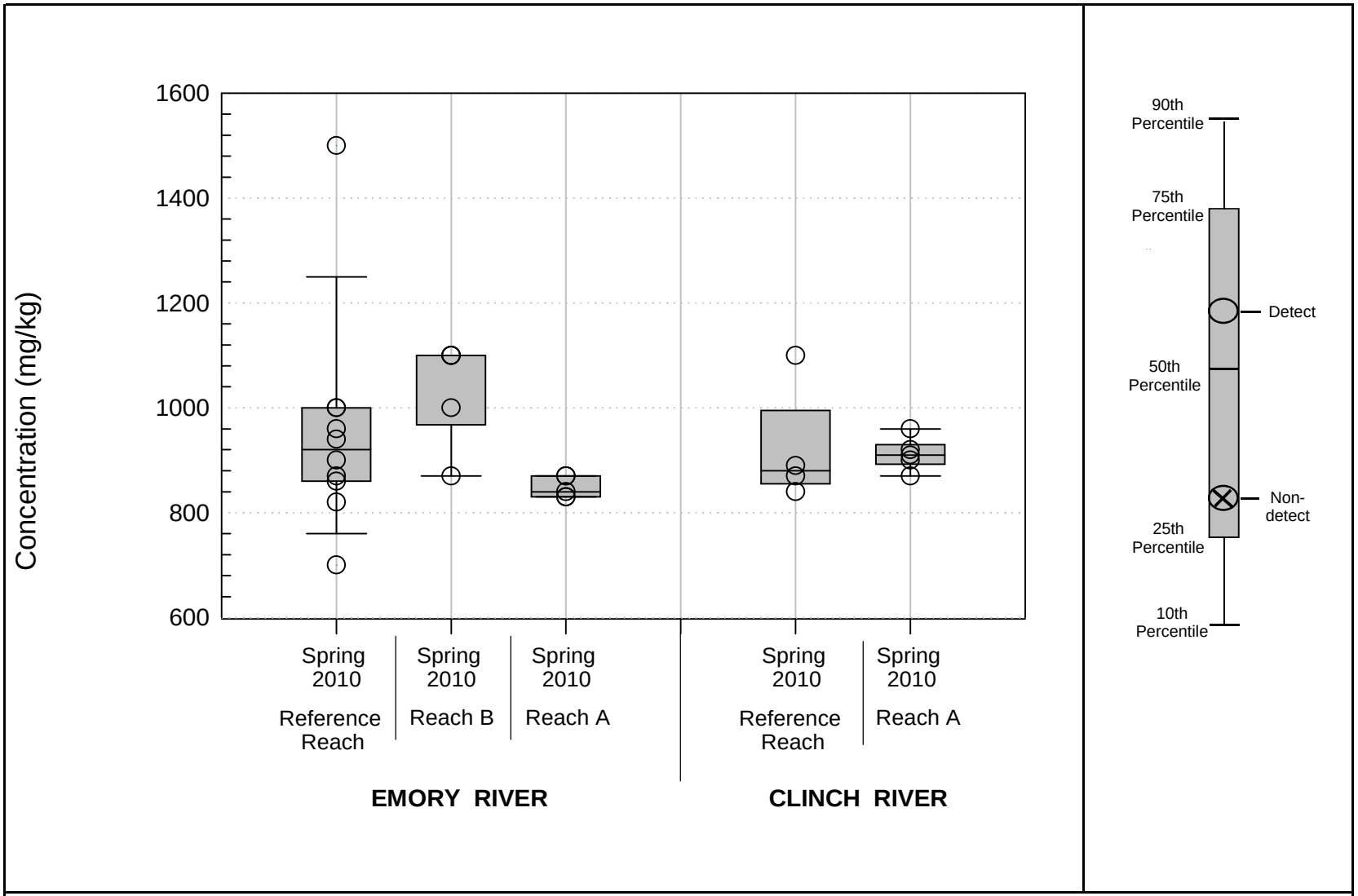
ARCADIS

Ovary
Largemouth Bass - Selenium
TVA, Kingston



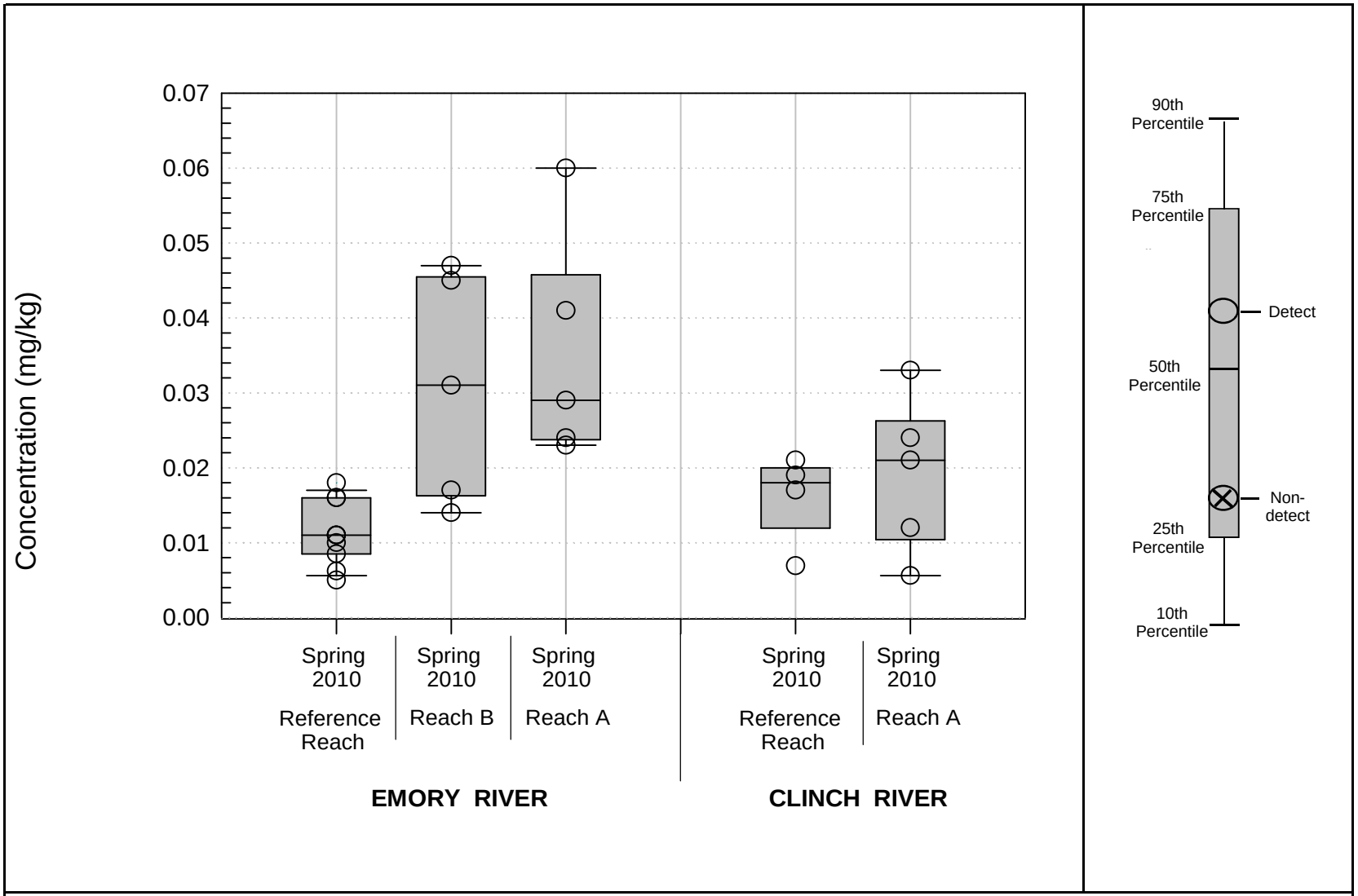
ARCADIS

Ovary
Largemouth Bass - Silver
TVA, Kingston



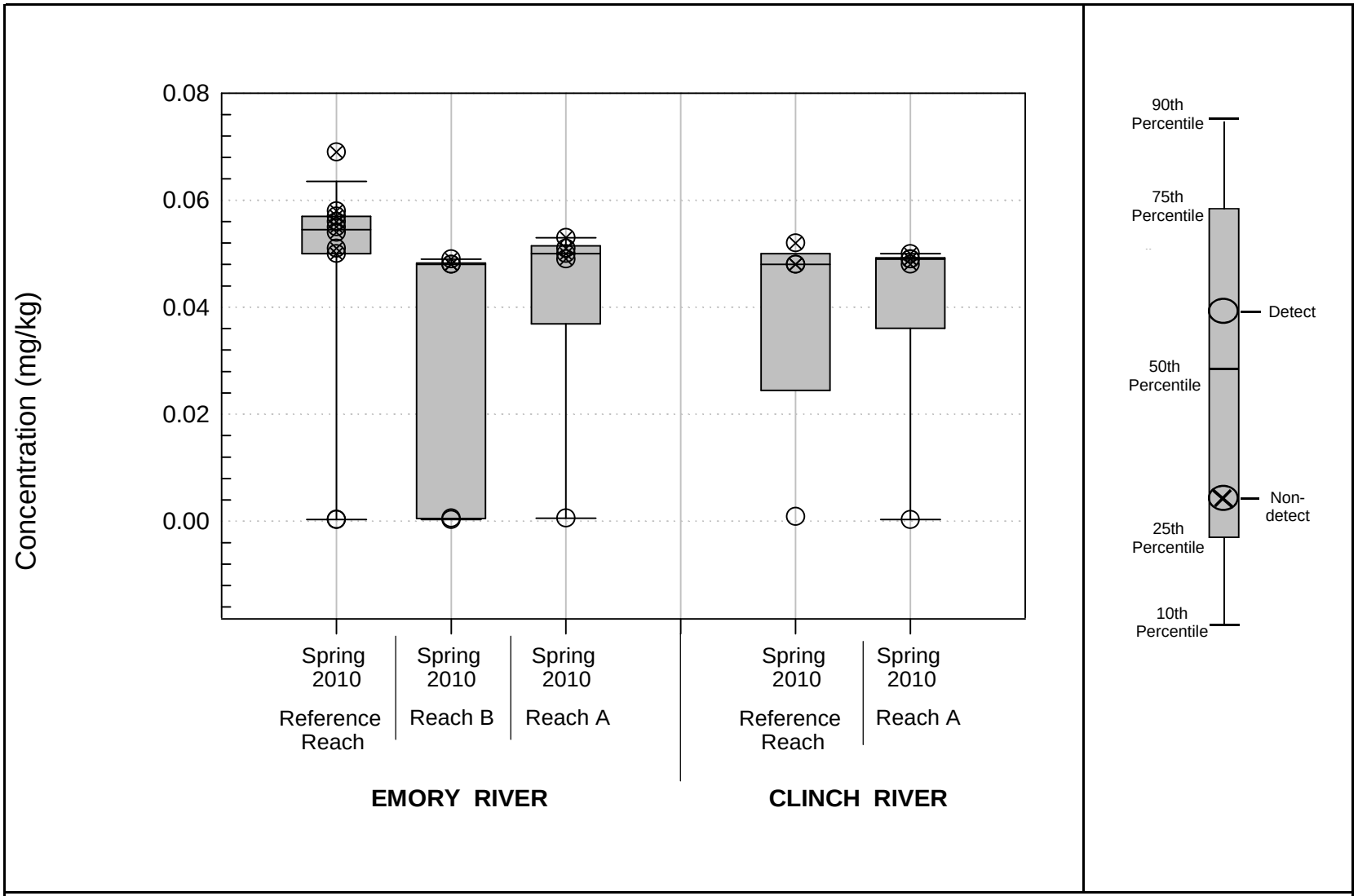
ARCADIS

Ovary
Largemouth Bass - Sodium
TVA, Kingston



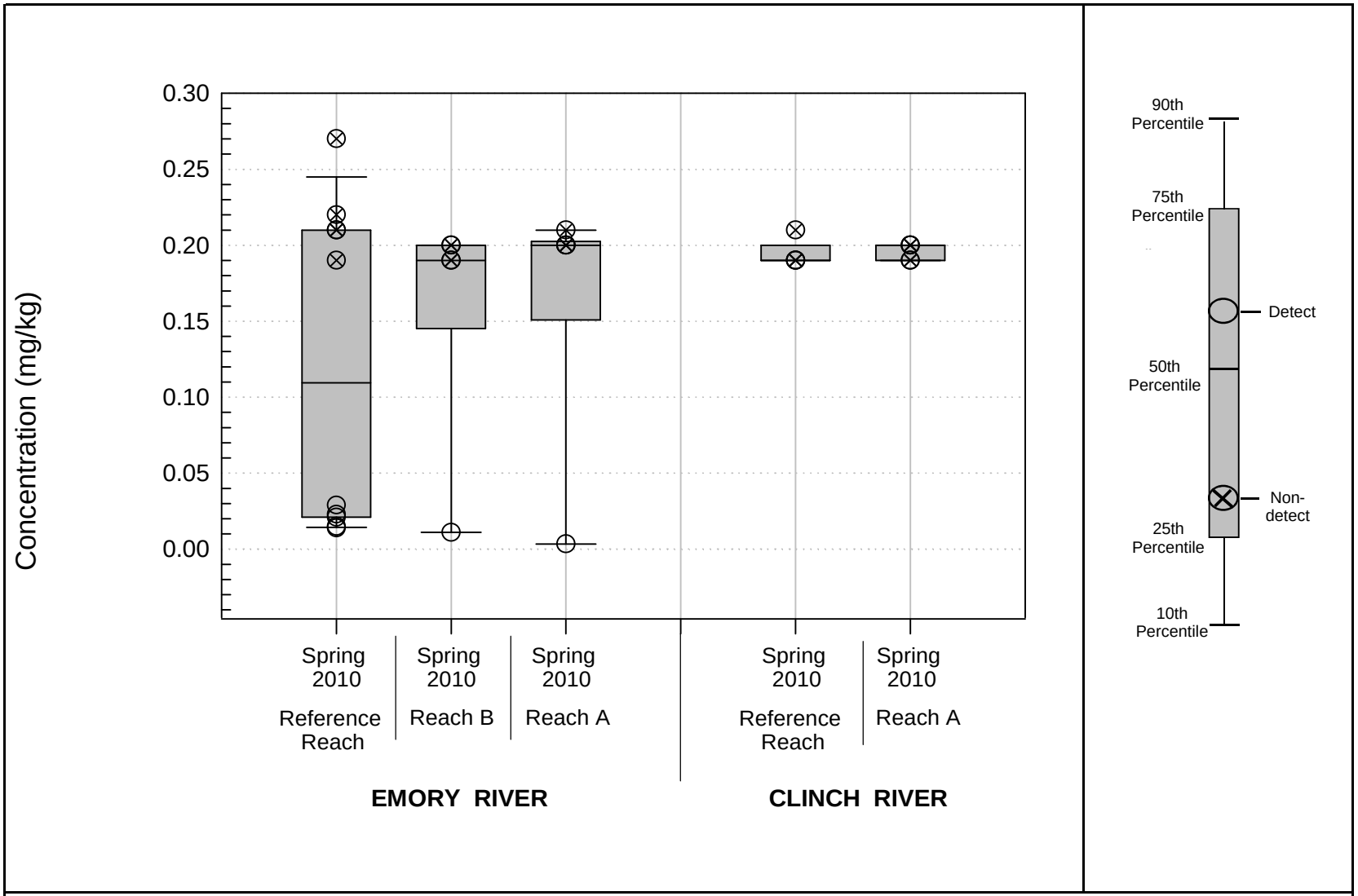
ARCADIS

Ovary
Largemouth Bass - Thallium
TVA, Kingston



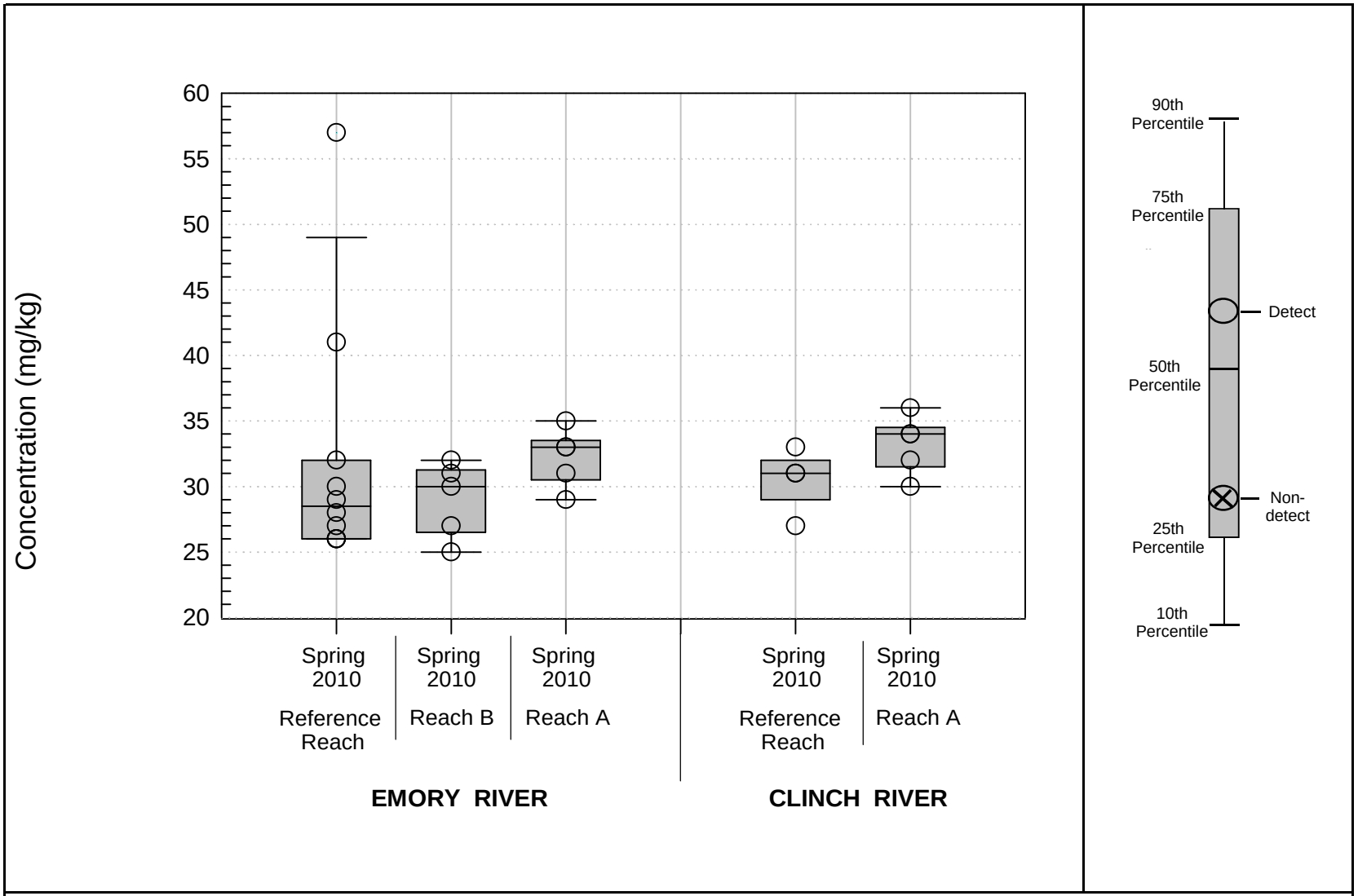
ARCADIS

Ovary
Largemouth Bass - Uranium
TVA, Kingston



ARCADIS

Ovary
Largemouth Bass - Vanadium
TVA, Kingston



ARCADIS

Ovary
Largemouth Bass - Zinc
TVA, Kingston