

Appendices to the Biological and Water Quality Study of the Middle Scioto River and Select Tributaries, 2010

Delaware, Franklin, Pickaway, and Union Counties



Ohio EPA Technical Report EAS/2012-12-12

TABLE OF CONTENTS

Appendix A – Biosurvey background information	1
Appendix B – Raw physical, chemical, and bacteriological water sampling results	21
Appendix C – Datasonde© summary data	35
Appendix D – Datasonde© hourly data	36
Appendix E - QHEI attributes	61
Appendix F - Index of Biotic integrity metrics	65
Appendix G – Fish species by location.....	71
Appendix H – Macroinvertebrate community summary	130
Appendix I – Invertebrate Community Index metrics	136
Appendix J – Macroinvertebrate taxa by location	140

Appendix A - Biosurvey Background Information

NOTICE TO USERS

Ohio EPA incorporated biological criteria into the Ohio Water Quality Standards (WQS; Ohio Administrative Code 3745-1) regulations in February 1990 (effective May 1990). These criteria consist of numeric values for the Index of Biotic Integrity (IBI) and Modified Index of Well-Being (MIwb), both of which are based on fish assemblage data, and the Invertebrate Community Index (ICI), which is based on macroinvertebrate assemblage data. Criteria for each index are specified for each of Ohio's five ecoregions (as described by Omernik 1988), and are further organized by organism group, index, site type, and aquatic life use designation. These criteria, along with the existing chemical and whole effluent toxicity evaluation methods and criteria, figure prominently in the monitoring and assessment of Ohio's surface water resources.

The following documents support the use of biological criteria by outlining the rationale for using biological information, the methods by which the biocriteria were derived and calculated, the field methods by which sampling must be conducted, and the process for evaluating results:

Ohio Environmental Protection Agency. 1987a. Biological criteria for the protection of aquatic life: Volume I. The role of biological data in water quality assessment. Div. Water Qual. Monit. & Assess., Surface Water Section, Columbus, Ohio.

____ 1987b. Biological criteria for the protection of aquatic life: Volume II. Users manual for biological field assessment of Ohio surface waters. Div. Water Qual. Monit. & Assess., Surface Water Section, Columbus, Ohio.

____ 1989b. Addendum to Biological criteria for the protection of aquatic life: Volume II. Users manual for biological field assessment of Ohio surface waters. Div. Water Qual. Plan. & Assess., Ecological Assessment Section, Columbus, Ohio.

____ 1989c. Biological criteria for the protection of aquatic life: Volume III. Standardized biological field sampling and laboratory methods for assessing fish and macroinvertebrate communities. Div. Water Quality Plan. & Assess., Ecol. Assess. Sect., Columbus, Ohio.

____ 1990. The use of biological criteria in the Ohio EPA surface water monitoring and assessment program. Div. Water Qual. Plan. & Assess., Ecol. Assess. Sect., Columbus, Ohio.

____ 2008a. 2008 Updates to Biological criteria for the protection of aquatic life: Volume II and Volume II Addendum. Users manual for biological field assessment of Ohio surface waters. Div. of Surface Water, Ecol. Assess. Sect., Groveport, Ohio.

____ 2008b. 2008 Updates to Biological criteria for the protection of aquatic life: Volume III. Standardized biological field sampling and laboratory methods for assessing fish and macroinvertebrate communities. Div. of Surface Water, Ecol. Assess. Sect., Groveport, Ohio.

____ 2006a. Methods for assessing habitat in flowing waters: Using the Qualitative Habitat Evaluation Index (QHEI). Ohio EPA Tech. Bull. EAS/2006-06-1. Revised by the Midwest Biodiversity Institute for Div. of Surface Water, Ecol. Assess. Sect., Groveport, Ohio.

_____. 2006b. 2006 updates to Biological Criteria for the Protection of Aquatic Life: Volume III. Standardized biological field sampling and laboratory methods for assessing fish and macroinvertebrate communities. Div. of Surface Water, Ecol. Assess. Sect., Columbus, Ohio.

Rankin, E.T. 1989. The qualitative habitat evaluation index (QHEI): rationale, methods, and application. Div. Water Qual. Plan. & Assess., Ecol. Assess. Sect., Columbus, Ohio.

Since the publication of the preceding guidance documents, the following new publications by the Ohio EPA have become available. These publications should also be consulted as they represent the latest information and analyses used by the Ohio EPA to implement the biological criteria.

DeShon, J.D. 1995. Development and application of the invertebrate community index (ICI), pp. 217-243. in W.S. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Risk-based Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Rankin, E. T. 1995. The use of habitat assessments in water resource management programs, pp. 181-208. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. and E.T. Rankin. 1995a. Biological criteria program development and implementation in Ohio, pp. 109-144. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. and E.T. Rankin. 1995b. Biological response signatures and the area of degradation value: new tools for interpreting multimetric data, pp. 263-286. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. 1995c. Policy issues and management applications for biological criteria, pp. 327-344. in W. Davis and T. Simon (eds.). Biological Assessment and Criteria: Tools for Water Resource Planning and Decision Making. Lewis Publishers, Boca Raton, FL.

Yoder, C.O. and E.T. Rankin. 1995d. The role of biological criteria in water quality monitoring, assessment, and regulation. Environmental Regulation in Ohio: How to Cope With the Regulatory Jungle. Inst. of Business Law, Santa Monica, CA. 54 pp.

Yoder, C.O. and M.A. Smith. 1999. Using fish assemblages in a State biological assessment and criteria program: essential concepts and considerations, pp. 17-63. in T. Simon (ed.). Assessing the Sustainability and Biological Integrity of Water Resources Using Fish Communities. CRC Press, Boca Raton, FL.

These documents and this report may be obtained by writing to:

Ohio EPA, Division of Surface Water
Monitoring and Assessment Section
4675 Homer Ohio Lane
Groveport, Ohio 43125
(614) 836-8777

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FOREWORD

What is a Biological and Water Quality Survey?

A biological and water quality survey, or “biosurvey”, is an interdisciplinary monitoring effort coordinated on a waterbody specific or watershed scale. This effort may involve a relatively simple setting focusing on one or two small streams, one or two principal stressors, and a handful of sampling sites or a much more complex effort including entire drainage basins, multiple and overlapping stressors, and tens of sites. Each year the Ohio EPA conducts biosurveys in 4-5 watersheds study areas with an aggregate total of 250-300 sampling sites.

The Ohio EPA employs biological, chemical, and physical monitoring and assessment techniques in biosurveys in order to meet three major objectives: 1) determine the extent to which use designations assigned in the Ohio Water Quality Standards (WQS) are either attained or not attained; 2) determine if use designations assigned to a given water body are appropriate and attainable; and 3) determine if any changes in key ambient biological, chemical, or physical indicators have taken place over time, particularly before and after the implementation of point source pollution controls or best management practices. The data gathered by a biosurvey is processed, evaluated, and synthesized in a biological and water quality report. Each biological and water quality study contains a summary of major findings and recommendations for revisions to WQS, future monitoring needs, or other actions which may be needed to resolve existing impairment of designated uses. While the principal focus of a biosurvey is on the status of aquatic life uses, the status of other uses such as recreation and water supply, as well as human health concerns are also addressed.

The findings and conclusions of a biological and water quality study may factor into regulatory actions taken by the Ohio EPA (e.g., NPDES permits, Director’s Orders, the Ohio Water Quality Standards [OAC 3745-1], Water Quality Permit Support Documents [WQPSDs]), and are eventually incorporated into State Water Quality Management Plans, the Ohio Nonpoint Source Assessment, and the biennial Integrated Water Quality Monitoring and Assessment Report (305[b] and 303[d]).

Hierarchy of Indicators

A carefully conceived ambient monitoring approach, using cost-effective indicators consisting of ecological, chemical, and toxicological measures, can ensure that all relevant pollution sources are judged objectively on the basis of environmental results. Ohio EPA relies on a tiered approach in attempting to link the results of administrative activities with true environmental measures. This integrated approach includes a hierarchical continuum from administrative to true environmental indicators (Figure 1). The six “levels” of indicators include: 1) actions taken by regulatory agencies (permitting, enforcement, grants); 2) responses by the regulated community (treatment works, pollution prevention); 3) changes in discharged quantities (pollutant loadings); 4) changes in ambient conditions (water quality, habitat); 5) changes in uptake and/or assimilation (tissue contamination, biomarkers, wasteload allocation); and, 6) changes in health, ecology, or other effects (ecological condition, pathogens). In this process the results of administrative activities (levels 1 and 2) can be linked to efforts to improve water quality (levels 3, 4, and 5) which should translate into the environmental “results” (level 6). Thus, the aggregate effect of billions of dollars spent on water pollution control since the early 1970s can now be determined with quantifiable measures of environmental condition.

Superimposed on this hierarchy is the concept of stressor, exposure, and response indicators. *Stressor* indicators generally include activities which have the potential to degrade the aquatic environment such as pollutant discharges (permitted and unpermitted), land use effects, and habitat modifications. *Exposure* indicators are those which measure the effects of stressors and can include whole effluent toxicity tests, tissue residues, and biomarkers, each of which provides evidence of biological exposure to a stressor or bioaccumulative agent. *Response* indicators are generally composite measures of the cumulative effects of stress and exposure and include the more direct measures of community and population response that are represented here by the biological indices which comprise Ohio's biological criteria. Other response indicators could include target assemblages, *i.e.*, rare, threatened, endangered, special status, and declining species or bacterial levels which serve as surrogates for the recreational uses. These indicators represent the essential technical elements for watershed-based management approaches. The key, however, is to use the different indicators *within* the roles which are most appropriate for each.

Describing the causes and sources associated with observed impairments revealed by the biological criteria and linking this with pollution sources involves an interpretation of multiple lines of evidence including water chemistry data, sediment data, habitat data, effluent data, biomonitoring results, land use data, and biological response signatures within the biological data itself. Thus the assignment of principal causes and sources of impairment represents the association of impairments (defined by response indicators) with stressor and exposure indicators. The principal reporting venue for this process on a watershed or subbasin scale is a biological and water quality report. These reports then provide the foundation for aggregated assessments such as the Integrated Report, the Ohio Nonpoint Source Assessment, and other technical bulletins.

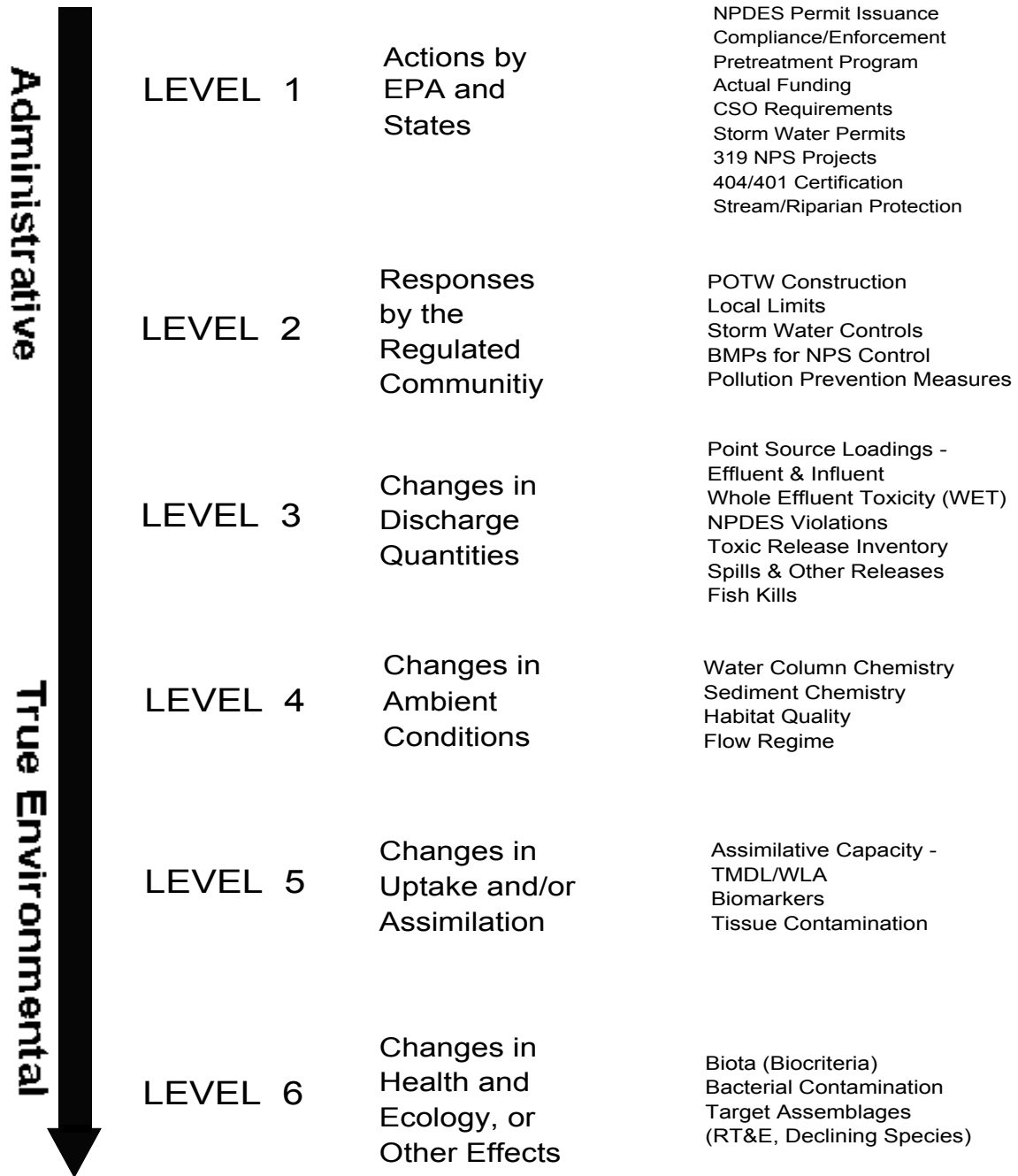


Figure 1. Hierarchy of administrative and environmental indicators which can be used for water quality management activities such as monitoring and assessment, reporting, and the evaluation of overall program effectiveness. This is patterned after a model developed by the U.S. EPA.

Ohio Water Quality Standards: Designated Aquatic Life Use

The Ohio Water Quality Standards (WQS; Ohio Administrative Code 3745-1) consist of designated uses and chemical, physical, and biological criteria designed to represent measurable properties of the environment that are consistent with the goals specified by each use designation. Use designations consist of two broad groups, aquatic life and non-aquatic life uses. In applications of the Ohio WQS to the management of water resource issues in Ohio's rivers and streams, the aquatic life use criteria frequently result in the most stringent protection and restoration requirements, hence their emphasis in biological and water quality reports. Also, an emphasis on protecting for aquatic life generally results in water quality suitable for all uses. The five different aquatic life uses currently defined in the Ohio WQS are described as follows:

- 1) *Warmwater Habitat (WWH)* - this use designation defines the "typical" warmwater assemblage of aquatic organisms for Ohio rivers and streams; *this use represents the principal restoration target for the majority of water resource management efforts in Ohio.*
- 2) *Exceptional Warmwater Habitat (EWH)* - this use designation is reserved for waters which support "unusual and exceptional" assemblages of aquatic organisms which are characterized by a high diversity of species, particularly those which are highly intolerant and/or rare, threatened, endangered, or special status (*i.e.*, declining species); *this designation represents a protection goal for water resource management efforts dealing with Ohio's best water resources.*
- 3) *Coldwater Habitat (CWH)* - this use is intended for waters which support assemblages of coldwater organisms and/or those which are stocked with salmonids with the intent of providing a put-and-take fishery on a year round basis which is further sanctioned by the Ohio DNR, Division of Wildlife; this use should not be confused with the Seasonal Salmonid Habitat (SSH) use which applies to the Lake Erie tributaries which support periodic "runs" of salmonids during the spring, summer, and/or fall.
- 4) *Modified Warmwater Habitat (MWH)* - this use applies to streams and rivers which have been subjected to extensive, maintained, and essentially permanent hydromodifications such that the biocriteria for the WWH use are not attainable *and where the activities have been sanctioned by state or federal law*; the representative aquatic assemblages are generally composed of species which are tolerant to low dissolved oxygen, silt, nutrient enrichment, and poor quality habitat.
- 5) *Limited Resource Water (LRW)* - this use applies to small streams (usually <3 mi² drainage area) and other water courses which have been irretrievably altered to the extent that no appreciable assemblage of aquatic life can be supported; such waterways generally include small streams in extensively urbanized areas, those which lie in watersheds with extensive drainage modifications, those which completely lack water on a recurring annual basis (*i.e.*, true ephemeral streams), or other irretrievably altered waterways.

Chemical, physical, and/or biological criteria are generally assigned to each use designation in accordance with the broad goals defined by each. As such the system of use designations employed in the Ohio WQS constitutes a "tiered" approach in that varying and graduated levels of protection are provided by each. This hierarchy is especially apparent for parameters such as dissolved oxygen, ammonia-nitrogen,

temperature, and the biological criteria. For other parameters such as heavy metals, the technology to construct an equally graduated set of criteria has been lacking, thus the same WQS criteria may apply to two or three different use designations.

Ohio Water Quality Standards: Non-Aquatic Life Uses

In addition to assessing the appropriateness and status of aquatic life uses, each biological and water quality survey also addresses non-aquatic life uses such as recreation, water supply, and human health concerns as appropriate. The recreation uses most applicable to rivers and streams are the Primary Contact Recreation (PCR) and Secondary Contact Recreation (SCR) uses. The criterion for designating the PCR use can be having a water depth of at least one meter over an area of at least 100 square feet or, lacking this, where frequent human contact is a reasonable expectation. If a water body does not meet either criterion, the SCR use applies. The attainment status of PCR and SCR is determined using bacterial indicators (*e.g.*, fecal coliform, *E. coli*) and the criteria for each are specified in the Ohio WQS.

Attainment of recreation uses are evaluated based on monitored bacteria levels. The Ohio Water Quality Standards state that all waters should be free from any public health nuisance associated with raw or poorly treated sewage (Administrative Code 3745-1-04, Part F). Additional criteria (Administrative Code 3745-1-07) apply to waters that are designated as suitable for full body contact such as swimming (PCR) or for partial body contact such as wading (SCR). These standards were developed to protect human health, because even though fecal coliform bacteria are relatively harmless in most cases, their presence indicates that the water has been contaminated with fecal matter.

Water supply uses include Public Water Supply (PWS), Agricultural Water Supply (AWS), and Industrial Water Supply (IWS). Public Water Supplies are simply defined as segments within 500 yards of a potable water supply or food processing industry intake. The Agricultural Water Supply (AWS) and Industrial Water Supply (IWS) use designations generally apply to all waters unless it can be clearly shown that they are not applicable. An example of this would be an urban area where livestock watering or pasturing does not take place, thus the AWS use would not apply. Chemical criteria are specified in the Ohio WQS for each use and attainment status is based primarily on chemical-specific indicators. Human health concerns are additionally addressed with fish tissue data, but any consumption advisories are issued by the Ohio Department of Health.

MECHANISMS FOR WATER QUALITY IMPAIRMENT

The following paragraphs are provided to present the varied causes of impairment that affect the resource quality of lotic systems in Ohio. While the various perturbations are presented under separate headings, it is important to remember that they are often interrelated and cumulative in terms of the detrimental impact that can result.

Habitat and Flow Alterations

Habitat alteration, such as channelization, negatively impacts biological communities directly by limiting the complexity of living spaces available to aquatic organisms. Consequently, fish and macroinvertebrate communities are not as diverse. Indirect impacts include the removal of riparian trees and field tiling to facilitate drainage. Following a rain event, most of the water is quickly removed from tiled fields rather than filtering through the soil, recharging ground water, and reaching the stream at a lower volume and more sustained rate. As a result, small streams more frequently go dry or

become intermittent. Urbanization impacts include removal of riparian trees, influx of stormwater runoff, straightening and piping of stream channels, and riparian vegetation removal.

Tree shade is important because it limits the energy input from the sun, moderates water temperature, and limits evaporation. Removal of the tree canopy further degrades conditions because it eliminates an important source of coarse organic matter essential for a balanced ecosystem. Riparian vegetation aids in nutrient uptake, may decrease runoff rate into streams, and helps keep soil in place. Erosion impacts channelized streams more severely due to the lack of a riparian buffer zone to slow runoff, trap sediment and stabilize banks. Additionally, deep trapezoidal channels lack a functioning flood plain and therefore cannot expel sediment as would occur during flood events along natural watercourses. The confinement of flow within an artificially deep channel accelerates the movement of water downstream, exacerbating flooding of neighboring properties.

The lack of water movement under low flow conditions can exacerbate impacts from organic loading and nutrient enrichment by limiting re-aeration of the stream. The amount of oxygen soluble in water decreases as temperature increases. This is one reason why tree shade is so important. The two main sources of oxygen in water are diffusion from the atmosphere and plant photosynthesis. Turbulence at the water surface is critical because it increases surface area and promotes diffusion, but channelization eliminates turbulence produced by riffles, meanders, and debris snags. Plant photosynthesis produces oxygen, but at night, respiration reverses the process and consumes oxygen. Conversely, oxygen concentrations can become supersaturated during the day, due to abnormally high amounts of photosynthesis, causing gas bubble stress to both fish and invertebrate communities. Oxygen is also used by bacteria that decay dead organic matter. Nutrient enrichment can promote the growth of nuisance algae that subsequently dies and serves as food for bacteria. Under these conditions, oxygen can be depleted unless it is replenished from the air.

Siltation and Sedimentation

Whenever the natural flow regime is altered to facilitate drainage, increased amounts of sediment are likely to enter streams either by overland transport or increased bank erosion. The removal of wooded riparian areas furthers the erosion process. Channelization keeps all but the highest flow events confined within the artificially high banks. As a result, areas that were formerly flood plains and allowed for the removal of sediment from the primary stream channel no longer serve this function. As water levels fall following a rain event, interstitial spaces between larger rocks fill with sand and silt and the diversity of available habitat to support fish and macroinvertebrates is reduced. Silt also can clog the gills of both fish and macroinvertebrates, reduce visibility thereby excluding site feeding fish species, and smother the nests of lithophilic fishes. Lithophilic spawning fish require clean substrates with interstitial voids in which to deposit eggs. Conversely, pioneering species benefit. They are generalists and best suited for exploiting disturbed and less heterogeneous habitats. The net result is a lower diversity of aquatic species compared with a typical warmwater stream with natural habitats.

Sediment also impacts water quality, recreation, and drinking water. Nutrients absorbed to soil particles remain trapped in the watercourse. Likewise, bacteria, pathogens, and pesticides which also attach to suspended or bedload sediments become concentrated in waterways where the channel is functionally isolated from the landscape. Community

drinking water systems address these issues with more costly advanced treatment technologies.

Nutrient Enrichment

The element of greatest concern is phosphorus because it is critical for plant growth and is often the limiting nutrient. The form that can be readily used by plants and therefore can stimulate nuisance algae blooms is orthophosphate (PO_4^{-3}). The amount of phosphorus tied up in the nucleic acids of food and waste is actually quite low. This organic material is eventually converted to orthophosphate by bacteria. The amount of orthophosphate contained in synthetic detergents is a great concern however. It was for this reason that the General Assembly of the State of Ohio enacted a law in 1990 to limit phosphorus content in household laundry detergents sold in the Lake Erie drainage basin to 0.5% by weight. Inputs of phosphorus originate from both point and nonpoint sources. Most of the phosphorus discharged by point sources is soluble. Another characteristic of point sources is they have a continuous impact and are human in origin, for instance, effluents from municipal sewage treatment plants. The contribution from failed on-lot septic systems or failing home sewage treatment systems can also be significant, especially if they are concentrated in a small area. The phosphorus concentration in raw waste water is generally 8-10 mg/l and after secondary treatment is generally 4-6 mg/l. Further removal requires the added cost of chemical addition. The most common methods use the addition of lime or alum to form a precipitate, so most phosphorus (80%) ends up in the sludge.

A characteristic of phosphorus discharged by nonpoint sources is that the impact is intermittent and associated with storm water runoff. Most of this phosphorus is bound tightly to soil particles and enters streams from erosion, although some comes from tile drainage. Urban storm water is more of a concern if combined sewer overflows are involved. The impact from rural storm water varies depending on land use and management practices and includes contributions from livestock feedlots and pastures and row crop agriculture. Crop fertilizer includes granular inorganic types and organic types such as manure or sewage sludge. Pasture land is especially a concern if the livestock have access to the stream. Large feedlots with manure storage lagoons create the potential for overflows and accidental spills. Land management is an issue because erosion is worse on streams without any riparian buffer zone to trap runoff. The impact is worse in streams that are channelized because they no longer have a functioning flood plain and cannot expel sediment during flooding. Oxygen levels must also be considered, because phosphorus is released from sediment at higher rates under anoxic conditions.

There is no numerical phosphorus criterion established in the Ohio Water Quality Standards, but there is a narrative criterion that states phosphorus should be limited to the extent necessary to prevent nuisance growths of algae and weeds (Administrative Code, 3745-1-04, Part E). Phosphorus loadings from large volume point source dischargers in the Lake Erie drainage basin are regulated by NPDES permit limits. The permit limit is a concentration of 1.0 mg/l in final effluent. Research conducted by the Ohio EPA indicates that a significant correlation exists between phosphorus and the health of aquatic communities (Miltner and Rankin, 1998). It was concluded that biological community performance in headwater and wadeable streams was highest where phosphorus concentrations were lowest. It was also determined that the lowest phosphorus concentrations were associated with the highest quality habitats, supporting the notion that habitat is a critical component of stream function. The report

recommends WWH biocriteria of 0.08 mg/l in headwater streams (<20 mi² watershed size), 0.10 mg/l in wadeable streams (>20-200 mi²) and 0.17 mg/l in small rivers (>200-1000 mi²).

Organic Enrichment and Low Dissolved Oxygen

The amount of oxygen soluble in water is low and it decreases as temperature increases. This is one reason why tree shade is so important. The two main sources of oxygen in water are diffusion from the atmosphere and plant photosynthesis. Turbulence at the water surface is critical because it increases surface area and promotes diffusion. Drainage practices such as channelization eliminate turbulence produced by riffles, meanders, and debris snags. Although plant photosynthesis produces oxygen by day, it is consumed by the reverse process of respiration at night. Oxygen is also consumed by bacteria that decay organic matter, so it can be easily depleted unless it is replenished from the air. Sources of organic matter include poorly treated waste water, sewage bypasses, and dead plants and algae. Dissolved oxygen criteria are established in the Ohio Water Quality Standards to protect aquatic life. The minimum and average limits are tiered values and linked to use designations (Administrative Code 3745-1-07, Table 7-1).

Ammonia

Ammonia enters streams as a component of fertilizer and manure run-off and wastewater effluent. Ammonia gas (NH₃) readily dissolves in water to form the compound ammonium hydroxide (NH₄OH). In aquatic ecosystems an equilibrium is established as ammonia shifts from a gas to undissociated ammonium hydroxide to the dissociated ammonium ion (NH₄⁺). Under normal conditions (neutral pH 7 and 25°C) almost none of the total ammonia is present as gas, only 0.55% is present as ammonium hydroxide, and the rest is ammonium ion. Alkaline pH shifts the equation toward gaseous ammonia production, so the amount of ammonium hydroxide increases. This is important because while the ammonium ion is almost harmless to aquatic life, ammonium hydroxide is very toxic and can reduce growth and reproduction or cause mortality.

The concentration of ammonia in raw sewage is high, sometimes as much as 20-30 mg/l. Treatment to remove ammonia involves gaseous stripping to the atmosphere, biological nitrification and de-nitrification, and assimilation into plant and animal biomass. The nitrification process requires a long detention time and aerobic conditions like that provided in extended aeration treatment plants. Under these conditions, bacteria first convert ammonia to nitrite (*Nitrosomonas*) and then to nitrate (*Nitrobacter*). Nitrate can then be reduced by the de-nitrification process (*Pseudomonas*) and nitrogen gas and carbon dioxide are produced as by-products.

Ammonia criteria are established in the Ohio Water Quality Standards to protect aquatic life. The maximum and average limits are tiered values based on sample pH and temperature and linked to use designations (Administrative Code 3745-1-07, Tables 7-2 through 7-8).

Metals

Metals can be toxic to aquatic life and hazardous to human health. Although they are naturally occurring elements many are extensively used in manufacturing and are byproducts of human activity. Certain metals like copper and zinc are essential in the human diet, but excessive levels are usually detrimental. Lead and mercury are of

particular concern because they often trigger fish consumption advisories. Mercury is used in the production of chlorine gas and caustic soda and in the manufacture of batteries and fluorescent light bulbs. In the environment it forms inorganic salts, but bacteria convert these to methyl-mercury and this organic form builds up in the tissues of fish. Extended exposure can damage the brain, kidneys, and developing fetus. The Ohio Department of Health (ODH) issued a statewide fish consumption advisory in 1997 advising women of child bearing age and children six and under not to eat more than one meal per week of any species of fish from waters of the state because of mercury. Lead is used in batteries, pipes, and paints and is emitted from burning fossil fuels. It affects the central nervous system and damages the kidneys and reproductive system. Copper is mined extensively and used to manufacture wire, sheet metal, and pipes. Ingesting large amounts can cause liver and kidney damage. Zinc is a by-product of mining, steel production, and coal burning and used in alloys such as brass and bronze. Ingesting large amounts can cause stomach cramps, nausea, and vomiting.

Metals criteria are established in the Ohio Water Quality Standards to protect human health, wildlife, and aquatic life. Three levels of aquatic life standards are established (Administrative Code 3745-1-07, Table 7-1) and limits for some elements are based on water hardness (Administrative Code 3745-1-07, Table 7-9). Human health and wildlife standards are linked to either the Lake Erie (Administrative Code 3745-1-33, Table 33-2) or Ohio River (Administrative Code 3745-1-34, Table 34-1) drainage basins. The drainage basins also have limits for additional elements not established elsewhere that are identified as Tier I and Tier II values.

Bacteria

High concentrations of either fecal coliform bacteria or *Escherichia coli* (*E. coli*) in a lake or stream may indicate contamination with human pathogens. People can be exposed to contaminated water while wading, swimming, and fishing. Fecal coliform bacteria are relatively harmless in most cases, but their presence indicates that the water has been contaminated with feces from a warm-blooded animal. Although intestinal organisms eventually die off outside the body, some will remain virulent for a period of time and may be dangerous sources of infection. This is especially a problem if the feces contained pathogens or disease producing bacteria and viruses. Reactions to exposure can range from an isolated illness such as skin rash, sore throat, or ear infection to a more serious wide spread epidemic. Some types of bacteria that are a concern include *Escherichia*, which cause diarrhea and urinary tract infections, *Salmonella*, which cause typhoid fever and gastroenteritis (food poisoning), and *Shigella*, which cause severe gastroenteritis or bacterial dysentery. Some types of viruses that are a concern include polio, hepatitis A, and encephalitis. Disease causing microorganisms such as cryptosporidium and giardia are also a concern.

Since fecal coliform bacteria are associated with warm-blooded animals, there are both human and animal sources. Human sources, including effluent from sewage treatment plants or discharges by on-lot septic systems, are a more continuous problem. Bacterial contamination from combined sewer overflows are associated with wet weather events. Animal sources are usually more intermittent and are also associated with rainfall, except when domestic livestock have access to the water. Large livestock farms store manure in holding lagoons and this creates the potential for an accidental spill. Liquid manure applied as fertilizer is a runoff problem if not managed properly and it sometimes seeps into field tiles.

Bacteria criteria for the recreational use are established in the Ohio Water Quality Standards to protect human health. The maximum and average limits are tiered values and linked to use designation, but only apply during the May 1-October 31 recreation season (Administrative Code 3745-1-41). The standards also state that streams must be free of any public health nuisance associated with raw or poorly treated sewage during dry weather conditions (Administrative Code 3745-1-04, Part F).

E. coli is the only indicator organism used to evaluate recreation. Geometric mean content is computed on a seasonal basis and is the sole basis of use attainment status when 2 or more samples are taken. The Primary Contact Recreation (PCR) use is divided into three separate categories each with specific numerical criteria: Class A – high use paddling streams, Class B – most typical streams and Class C – historically channelized streams that drain < 3.1 mi².

Sediment Contamination

Chemical quality of sediment is a concern because many pollutants bind strongly to soil particles and are persistent in the environment. Some of these compounds accumulate in the aquatic food chain and trigger fish consumption advisories, but others are simply a contact hazard because they cause skin cancer and tumors. The physical and chemical nature of sediment is determined by local geology, land use, and contribution from manmade sources. As some materials enter the water column they are attracted to the surface electrical charges associated with suspended silt and clay particles. Others simply sink to the bottom due to their high specific gravity. Sediment layers form as suspended particles settle, accumulate, and combine with other organic and inorganic materials. Sediment is the most physically, chemically, and biologically reactive at the water interface because this is where it is affected by sunlight, current, wave action, and benthic organisms. Assessment of the chemical nature of this layer can be used to predict ecological impact.

The Ohio EPA evaluation of sediment chemistry results are evaluated using a dual approach, first by ranking relative concentrations based on a system developed by Ohio EPA (2005) and then by determining the potential for toxicity based on guidelines developed by MacDonald et al (2000). The Ohio EPA system was derived from samples collected at ecoregional reference sites. Specific Reference Values are site specific ecoregional based metals concentrations and are used to identify contaminated stream reaches. The MacDonald guidelines are consensus based using previously developed values. The system predicts that sediments below the threshold effect concentration (TEC) are absent of toxicity and those greater than the probable effect concentration (PEC) are toxic.

Sediment samples collected by the Ohio EPA are measured for a number of physical and chemical properties. Physical attributes included % particle size distribution (sand ≥60 μ, silt 5-59 μ, clay ≤4 μ), % solids, and % organic carbon. Most locations sampled had an abundance of sediment, and no difficulties were experienced in locating ample volumes of sediment for analysis. Fine grained sediments are deposited in flood plains of natural streams during periods of high flow. This scenario changes if the stream is impounded by a dam or channelized.

Chemical attributes included metals, volatile and semi-volatile organic compounds, pesticides, and poly-chlorinated biphenyls (PCBs).

MATERIALS and METHODS

All physical, chemical, and biological field, laboratory, data processing, and data analysis methodologies and procedures adhere to those specified in the Manual of Ohio EPA Surveillance Methods and Quality Assurance Practices (Ohio Environmental Protection Agency 1989a) and Biological Criteria for the Protection of Aquatic Life, Volumes I-III (Ohio Environmental Protection Agency 1987a, 1987b, 1989b, 1989c, 2006, 2008a, 2008b), The Qualitative Habitat Evaluation Index (QHEI): Rationale, Methods, and Application (Rankin 1989 and 1995) for aquatic habitat assessment, and the Ohio EPA Sediment Sampling Guide and Methodologies (Ohio EPA 2001). Sampling locations are listed in Table 1.

Determining Use Attainment Status

Use attainment status is a term describing the degree to which environmental indicators are either above or below criteria specified by the Ohio Water Quality Standards (WQS; Ohio Administrative Code 3745-1). Assessing aquatic use attainment status involves a primary reliance on the Ohio EPA biological criteria (OAC 3745-1-07; Table 7-15). These are confined to ambient assessments and apply to rivers and streams outside of mixing zones. Numerical biological criteria are based on multimetric biological indices including the IBI and MIwb, indices measuring the response of the fish community, and the ICI, which indicates the response of the macroinvertebrate community. Three attainment status results are possible at each sampling location - full, partial, or non-attainment. Full attainment means that all of the applicable indices meet the biocriteria. Partial attainment means that one or more of the applicable indices fails to meet the biocriteria. Non-attainment means that none of the applicable indices meet the biocriteria or one of the organism groups reflects poor or very poor performance. An aquatic life use attainment table (Table 2) is constructed based on the sampling results and is arranged from upstream to downstream and includes the sampling locations indicated by river mile, the applicable biological indices, the use attainment status (*i.e.*, full, partial, or non), the Qualitative Habitat Evaluation Index (QHEI), and a sampling location description.

Habitat Assessment

Physical habitat was evaluated using the QHEI developed by the Ohio EPA for streams and rivers in Ohio (Rankin 1989 and 1995). Various attributes of the habitat are scored based on the overall importance of each to the maintenance of viable, diverse, and functional aquatic faunas. The type(s) and quality of substrates, amount and quality of instream cover, channel morphology, extent and quality of riparian vegetation, pool, run, and riffle development and quality, and gradient are some of the habitat characteristics used to determine the QHEI score which generally ranges from 20 to less than 100. The QHEI is used to evaluate the characteristics of a stream segment, as opposed to the characteristics of a single sampling site. As such, individual sites may have poorer physical habitat due to a localized disturbance yet still support aquatic communities closely resembling those sampled at adjacent sites with better habitat, provided water quality conditions are similar. QHEI scores from hundreds of segments around the state have indicated that values greater than 60 are *generally* conducive to the existence of warmwater faunas whereas scores less than 45 generally cannot support a warmwater assemblage consistent with the WWH biological criteria. Scores greater than 75 frequently reflect habitat conditions which have the ability to support exceptional warmwater faunas.

Sediment and Surface Water Assessment

Fine grain sediment samples were collected in the upper 4 inches of bottom material at each location using decontaminated stainless steel scoops and excavated using nitrile gloves. Decontamination of sediment sampling equipment followed the procedures outlined in the Ohio EPA sediment sampling guidance manual (Ohio EPA 2001). Sediment grab samples were homogenized in stainless steel pans (material for VOC analysis was not homogenized), transferred into glass jars with teflon® lined lids, placed on ice (to maintain 4°C) in a cooler, and shipped to Ohio EPA Division of Environmental Services. Sediment data is reported on a dry weight basis. Surface water samples were collected, preserved and delivered in appropriate containers to Ohio EPA Division of Environmental Services. Surface water samples were evaluated using comparisons to Ohio Water Quality Standards criteria, reference conditions, or published literature. Sediment evaluations were conducted using guidelines established in MacDonald et al. (2000) and Ohio Specific Reference Values (2003).

Recreation Use Assessment

Bacteria criteria for the recreational use are established in the Ohio Water Quality Standards to protect human health. The maximum and average limits are tiered values and linked to use designation, but only apply during the May 1-October 31 recreation season (Administrative Code 3745-1-41). The standards also state that streams must be free of any public health nuisance associated with raw or poorly treated sewage during dry weather conditions (Administrative Code 3745-1-04, Part F).

Macroinvertebrate Community Assessment

Macroinvertebrates were collected from artificial substrates and from the natural habitats. The artificial substrate collection provided quantitative data and consisted of a composite sample of five modified Hester-Dendy multiple-plate samplers colonized for six weeks. At the time of the artificial substrate collection, a qualitative multihabitat composite sample was also collected. This sampling effort consisted of an inventory of all observed macroinvertebrate taxa from the natural habitats at each site with no attempt to quantify populations other than notations on the predominance of specific taxa or taxa groups within major macrohabitat types (e.g., riffle, run, pool, margin). Detailed discussion of macroinvertebrate field and laboratory procedures is contained in Biological Criteria for the Protection of Aquatic Life: Volume III, Standardized Biological Field Sampling and Laboratory Methods for Assessing Fish and Macroinvertebrate Communities (Ohio EPA 1989b, 2008b).

Fish Community Assessment

Fish were sampled using pulsed DC electrofishing methods. Fish were processed in the field, and included identifying each individual to species, counting, weighing, and recording any external abnormalities. Discussion of the fish community assessment methodology used in this report is contained in Biological Criteria for the Protection of Aquatic Life: Volume III, Standardized Biological Field Sampling and Laboratory Methods for Assessing Fish and Macroinvertebrate Communities (Ohio EPA 1989b, 2008b).

Causal Associations

Using the results, conclusions, and recommendations of this report requires an understanding of the methodology used to determine the use attainment status and assigning probable causes and sources of impairment. The identification of impairment in rivers and streams is straightforward - the numerical biological criteria are used to

judge aquatic life use attainment and impairment (partial and non-attainment). The rationale for using the biological criteria, within a weight of evidence framework, has been extensively discussed elsewhere (Karr *et al.* 1986; Karr 1991; Ohio EPA 1987a,b; Yoder 1989; Miner and Borton 1991; Yoder 1991; Yoder 1995). Describing the causes and sources associated with observed impairments relies on an interpretation of multiple lines of evidence including water chemistry data, sediment data, habitat data, effluent data, land use data, and biological results (Yoder and Rankin 1995a, 1995b, and 1995c). Thus the assignment of principal causes and sources of impairment in this report represent the association of impairments (based on response indicators) with stressor and exposure indicators. The reliability of the identification of probable causes and sources is increased where many such prior associations have been identified, or have been experimentally or statistically linked together. The ultimate measure of success in water resource management is the restoration of lost or damaged ecosystem attributes including aquatic community structure and function. While there have been criticisms of misapplying the metaphor of ecosystem “health” compared to human patient “health” (Suter 1993), in this document we are referring to the process for evaluating biological integrity and causes or sources associated with observed impairments, not whether human health and ecosystem health are analogous concepts.

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Appendix B – Raw physical, chemical, and bacteriological results.

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
V03S06 Scioto River @ Park (RM 138.50)																					
6/28/2010 15:15						25.8			76.7	380	8.0				0.116	5.79	5.91	0.95	0.109		
6/28/2010 18:50						30.2			57.3	324	7.0				0.070	5.57	5.64	1.06	0.103		
7/8/2010 12:10						35.7			80.4	386	14.0										
7/8/2010 12:32						30.6			81.6	366	11.0										
7/21/2010 12:58						31.4			84.4	346	11.0				0.025	2.45	2.48	0.82	0.005		
7/21/2010 18:45						42.6			81.5	374	11.0				0.025	1.69	1.72	0.80	0.156		
8/18/2010 12:50						40.8			91.5	336	12.0				0.025	0.05	0.08	1.18	0.087		
8/18/2010 18:30						47.4			87.4	338	6.0				0.025	0.05	0.08	0.86	0.044		
9/1/2010 12:20						44.7			104.0	374	7.0				0.025	0.49	0.52	0.74	0.052		
9/1/2010 19:06						51.3			89.7	386	6.0				0.053	0.05	0.10	0.84	0.053		
600840 Scioto R. @ Dublin WTP (RM 133.45)																					
5/12/2010 11:10	16.04	752			7.76	69.1	752	310	96.9	458	15.0	419	2620	5.0	0.025	1.49	1.52	3.54	0.005	10	
5/26/2010 9:00	19.13	648			8.06	46.6	658	182	70.9	406	9.0	508	1800	5.0	0.025	8.02	8.05	1.13	0.116	22	30
6/1/2010 7:50	21.30	625			7.53	50.2	625	165	62.5	392	8.0	267	1600	5.0	0.025	6.00	6.03	1.10	0.073	10	180
6/24/2010 8:50	24.45	497			7.67	30.0	494	142	50.5	318	13.0	728	1020	5.0	0.025	6.48	6.51	0.76	0.140	22	90
7/7/2010 9:15	26.10	630			7.92	39.1	622	277	90.6	412	2.5	115	2060	5.0	0.025	3.66	3.69	0.61	0.047	22	5
7/22/2010 9:30	26.18	588			7.53	47.5	603	140	85.8	350	13.0	283	1940	5.0	0.025	1.86	1.89	0.62	0.035	10	5
8/16/2010 8:45	26.54	607			7.30	51.2	604	237	92.2	410	2.5	160	2350	5.0	0.025	0.47	0.50	0.47	0.202	10	10
9/2/2010 9:20	25.93	618			7.42	57.1	659	237	98.3	380	5.0	174	2530	5.0	0.025	0.29	0.32	0.63	0.058	10	5
9/15/2010 10:50	23.20	686			7.65	52.1	686	264	104.0	434	7.0	129	2930	5.0	0.025	0.36	0.39	0.58	0.056	20	5
9/27/2010 9:40	22.54	701			7.46	57.7	704	293	109.0	456	6.0	199	3060	5.0	0.025	0.45	0.48	0.64	0.059	10	5
600870 Scioto River @ Frank Road (RM 127.74)																					
1/26/2010 10:05	2.20	588	106.7	14.66	8.02	61.5	607	245		388	51.0	3130	1190	17.0	0.075	6.44	6.52	1.21	0.181	10	
2/23/2010 10:00	2.88	1415	101.4	13.63	7.94	304.0	1410	323		864	10.0	582	1480	22.0	0.485	7.12	7.61	1.99	0.201	29	
3/11/2010 10:30	4.15	553	90.3	11.77	7.88	58.0	562	219		346	62.0	2670	938	28.0	0.111	4.40	4.51	0.71	0.148	10	
4/19/2010 9:05	15.17	678	115.6	11.60	8.55	63.5	691	187		404	26.0	547	1730	5.0	0.025	2.19	2.22	1.24	0.063	28	
5/17/2010 10:35	19.07	705	90.9	8.39	8.22	64.7	716	182	86.5	428	19.0	528	1830	5.0	0.025	2.00	2.03	0.54	0.074	23	130
6/17/2010 10:40	23.02	383	118.5	10.14	7.84	22.9	383	112	35.6	270	66.0	3170	658	19.0	0.057	5.38	5.44	0.82	0.172	34	350
6/28/2010 10:35	26.52	493	87.3	7.00	7.73	41.4	488	132	49.7	308	40.0	1080	795	18.0	0.066	3.50	3.57	0.80	0.089	20	4000
7/12/2010 10:35	26.71	547	87.0	6.96	8.38	44.9		170	73.0	332	20.0	647	1750	59.0							320
7/26/2010 10:35	27.54	606	87.0	6.86	7.94	63.1	612	216	81.5	356	23.0	419	1380	5.0	0.025	0.44	0.47	0.61	0.084	10	1300
7/28/2010 13:00						58.9		199	78.7	362	25.0	396	1330	5.0	0.025	0.76	0.79	0.67	0.060		
8/10/2010 10:45	27.59	560	96.1	7.57	8.46	52.6	577	206	80.1	398	10.0	211	1550	5.0	0.025	0.05	0.08	1.04	0.023	10	50
8/23/2010 11:00	26.62	603	67.4	5.40	7.78	60.4	599	211	77.8	362	7.0	306	1270	14.0	0.170	0.10	0.27	0.71	0.058	10	1100

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
9/7/2010 10:15	22.05	705	77.0	6.71	7.82	76.2	727	260	87.2	428	10.0	273	1370	5.0	0.025	0.05	0.08	0.82	0.075	10	20
10/28/2010 11:20						87.1	825	291	102.0	490	7.0	327	1370	10.0	0.058	0.38	0.44	0.84	0.065	22	8600
11/17/2010 11:35	9.33	779	98.4	11.26	8.10	84.3	816	308	108.0	474	9.0	268	1440	14.0	0.066	0.34	0.41	0.74	0.035	10	5800
11/30/2010 12:05	6.68	667	110.5	13.49	8.12	62.3	686	250	104.0	390	17.0	583	2000	11.0	0.054	1.09	1.14	0.98	0.072	22	490
V07W06 Jackson Pike WWTP Outfall (RM 127.10)																					
5/25/2010 9:00						123.0		185	106.0	582	2.5	81	682	75.0	0.025	12.00	12.03	1.48	2.170	21	
5/25/2010 9:00	18.80	970	85.8	8.06	7.09																
6/28/2010 10:15	22.29	683	111.5	9.68	7.26	85.2	688	122	81.6	406	2.5	68	485	44.0	0.084	7.66	7.74	1.34	2.060	22	300
7/12/2010 10:20	21.72	912	103.5	9.07	7.26	119.0		182	119.0	538	2.5	93	1050	69.0							100
7/26/2010 10:20	22.84	763	106.5	9.14	7.65	93.6	762	202	94.4	452	2.5	25	670	50.0	0.070	6.99	7.06	0.98	1.530	10	60
8/10/2010 10:30	23.29	935	113.3	9.64	7.46	124.0	962	217	122.0	582	2.5	72	984	54.0	0.081	8.22	8.30	1.66	2.430	20	20
8/18/2010 9:05	23.27	920	111.3	9.47	7.23																36
8/18/2010 9:15						106.0	947	213		556	2.5	53	974	53.0	0.093	8.36	8.45	1.50	2.760	10	
8/23/2010 10:50	23.63	893	114.1	9.64	7.67	110.0	897	218	116.0	530	2.5	78	960	61.0	0.097	8.93	9.03	1.30	2.930	23	10
9/7/2010 10:05	22.90	892	103.8	8.89	7.53	112.0	925	206	121.0	542	2.5	67	1070	48.0	0.497	9.69	10.19	1.92	3.220	24	
V07W17 Scioto River Dst. Trailer Park (RM 125.50)																					
1/26/2010 9:45	2.33	600	104.5	14.29	8.06	63.9	622	236		398	50.0	2910	1170	18.0	0.098	4.95	5.05	1.09	0.227	23	
2/23/2010 10:20	3.45	1388	100.0	13.22	7.84	283.0	1390	339		846	9.0	558	1590	30.0	1.170	8.65	9.82	2.27	0.358	23	
3/11/2010 8:30	4.26	569	94.0	12.22	7.73	60.5	576	231		350	72.0	3020	960	17.0	0.101	4.36	4.46	0.65	0.155	10	
4/19/2010 8:45	14.02	828	114.3	11.73	8.21	79.6	845	225		512	13.0	309	2090	14.0	0.025	4.23	4.26	1.23	0.517	26	
5/17/2010 10:20	18.77	778	87.0	8.09	8.06	74.1	790	202	110.0	470	12.0	385	1970	13.0	0.053	3.01	3.06	0.55	0.352	10	3600
6/28/2010 11:00	26.46	540	84.4	6.78	7.86	43.7	531	147	63.7	340	46.0	1340	949	29.0	0.082	3.94	4.02	0.89	0.194	20	5000
7/12/2010 11:00	26.06	624	89.9	7.26	8.26	55.3		182	95.6	372	18.0	389	1820	15.0							5600
7/26/2010 11:00	26.29	683	90.1	7.26	7.98	69.9	698	240	109.0	404	18.0	329	1570	15.0	0.077	1.89	1.97	0.67	0.363	10	7600
7/28/2010 14:30						82.9		376	144.0	520	22.0	1060	705	5.0	0.162	2.22	2.38	1.15	0.642		
8/10/2010 11:05	25.54	821	86.9	7.09	7.78	82.7	860	289	147.0	558	10.0	258	2100	18.0	0.150	2.81	2.96	1.18	0.829	10	12000
8/23/2010 11:30	24.47	827	72.3	6.01	7.71	82.1	824	283	135.0	510	6.0	212	1840	27.0	0.265	3.19	3.46	1.05	0.904	10	15000
9/7/2010 10:45	21.69	1045	76.0	6.65	7.59	104.0	1080	354	201.0	676	5.0	167	2510	27.0	0.350	5.60	5.95	1.54	1.820	10	15000
10/28/2010 11:00						95.3	963	351	142.0	582	5.0	234	1990	27.0	0.137	3.21	3.35	2.15	0.983	26	15000
11/17/2010 0:00	10.39	660	94.9	10.60	7.88	84.0	846	309	121.0	508	6.0	197	1670	61.0	0.150	1.62	1.77	1.08	0.405	23	9200
11/30/2010 0:00	8.16	693	108.9	12.82	7.90	67.4	710	263	116.0	410	15.0	552	2000	32.0	0.180	1.50	1.68	1.36	0.452	26	5400
V07W25 Scioto River Dst, SR 665 (RM 119.10)																					
6/29/2010 10:10	24.52	520	79.4	6.61	7.76																1800
7/13/2010 10:30	25.40	554	74.1	6.07	7.92																1700

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
7/27/2010 10:25	25.96	780	96.0	7.78	7.98																1400
8/11/2010 9:55	26.62	715	65.6	5.26	7.86																4500
8/24/2010 10:25	23.45	840	61.5	5.21	7.61																690
9/8/2010 10:00	21.28	945	64.0	5.65	7.55																1300
V07W10 Southerly WWTP Outfall (RM 118.40)																					
5/25/2010 10:00						128.0		185	107.0	612	2.5	73	836	52.0	0.025	10.80	10.83	1.37	1.910	10	
5/25/2010 10:00	17.43	1023	90.2	8.58	7.09																
6/29/2010 9:00	19.29	892	104.4	9.60	7.17	111.0	904	172	97.7	536	2.5	55	615	42.0	0.025	8.08	8.11	1.25	1.630	10	10
7/13/2010 9:30	21.13	771	99.0	8.77	6.90	110.0		142	100.0	508	2.5	82	681	47.0							90
7/27/2010 8:15	20.79	984	101.6	9.07	7.15	137.0	1050	256	111.0	610	2.5	78	744	49.0	0.069	8.94	9.01	1.46	1.960	21	10
8/11/2010 8:55	21.80	985	104.5	9.14	7.01	125.0	1020	255	117.0	610	2.5	62	789	60.0	0.059	9.66	9.72	1.28	2.150	10	2200
8/18/2010 9:30						115.0	1050	239		656	2.5	25	765	45.0	0.074	9.36	9.43	1.49	2.060	10	
8/18/2010 9:40	21.57	1015	113.6	9.98	7.26																5
8/24/2010 9:20	21.47	810	103.6	9.14	7.15	123.0	1020	238	119.0	624	2.5	97	815	55.0	0.025	9.54	9.57	1.41	1.960	10	10
9/8/2010 8:50	21.29	828	113.4	10.02	7.30	122.0	1010	230	119.0	584	2.5	81	837	30.0	0.092	8.82	8.91	1.49	0.578	23	30
600910 Scioto River @ SR 316 (RM 109.37)																					
1/26/2010 8:55	3.01	671	98.6	13.24	7.86	78.6	694	254		426	62.0	2790	1290	25.0	0.107	4.45	4.56	1.26	0.200	10	
2/23/2010 11:15	3.88	1894	93.0	12.14	7.71	479.0	1880	344		1100	34.0	965	1100	38.0	1.000	5.25	6.25	1.80	0.386	20	
3/11/2010 9:30	4.69	619	90.5	11.64	7.82	70.7	629	242		376	82.0	2870	913	21.0	0.082	3.69	3.77	0.77	0.140	10	
4/19/2010 8:05	14.47	889	113.5	11.55	8.14			207				364	1390	15.0	0.025	3.77	3.80	1.22	0.305	25	
5/17/2010 9:25	18.45	783	82.5	7.73	7.84	82.5	790	192	95.8	482	18.0	550	1460	16.0	0.025	3.31	3.34	0.76	0.356	10	690
6/17/2010 9:35	22.55	436	105.3	9.10	7.73	31.6	437	122	40.7	304	85.0	3290	642	25.0	0.025	5.67	5.70	0.98	0.302	22	700
6/29/2010 10:30	24.37	531	74.1	6.19	7.63	54.8	529	127	60.6	322	46.0	1380	671	22.0	0.059	3.19	3.25	0.89	0.323	10	600
7/13/2010 10:50	24.86	572	73.0	6.03	7.71	59.4		152	62.6	342	110.0	3340	912	53.0							4400
7/27/2010 9:20	25.81	687	86.0	7.00	8.01	76.9	694	231	92.1	440	23.0	539	1120	16.0	0.025	2.13	2.16	0.62	0.432	10	180
7/28/2010 17:00						86.7		256	118.0	494	24.0	443	1200	21.0	0.025	3.64	3.67	0.93	0.745		
8/11/2010 10:45	27.09	781	73.8	5.86	7.65	83.6	793	264	121.0	502	17.0	438	1410	29.0	0.057	2.54	2.60	0.89	0.655	10	1100
8/24/2010 10:40	23.90	759	88.4	7.44	7.80	78.4	762	231	103.0	452	12.0	428	1070	34.0	0.025	3.21	3.24	0.71	0.644	10	170
9/8/2010 10:25	21.84	970	80.5	7.05	7.88	104.0	991	305	136.0	608	2.5	272	1470	21.0	0.062	4.61	4.67	0.97	0.744	25	90
10/28/2010 10:10						76.0	685	215	83.3	402	15.0	530	829	15.0	0.100	2.17	2.27	1.07	0.523	20	17000
11/17/2010 0:00	11.11	847	78.8	8.64	7.63	87.1	884	283	128.0	534	30.0	776	1470	39.0	0.151	4.15	4.30	1.23	1.130	10	10000
11/30/2010 0:00	8.13	728	106.6	12.56	7.99	69.5	751	279	118.0	432	19.0	586	1890	25.0	0.078	1.80	1.88	1.08	0.344	20	3100

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
601340 Scioto River Ust. Circleville (RM 102.14)																					
1/26/2010 8:30	3.64	652	94.2	12.44	7.71	81.1	678	245		416	72.0	3260	1160	25.0	0.189	4.46	4.65	1.23	0.210	10	
2/23/2010 11:45	3.83	1638	92.9	12.15	7.75	408.0	1680	334		984	48.0	1520	1030	33.0	0.591	6.36	6.95	1.91	0.376	10	
3/9/2010 10:25						111.0	837	263		494	66.0	2670	1160	21.0	0.171	6.52	6.69	0.96	0.180	10	1200
3/11/2010 9:15	4.86	634	89.8	11.48	7.80	71.7	644	240		384	73.0	2560	936	17.0	0.067	3.48	3.55	0.68	0.137	10	
4/19/2010 7:40	14.39	857	119.0	12.14	8.19	89.0		215		506	16.0	387	1350	13.0	0.025	2.83	2.86	1.23	0.205	22	
5/17/2010 9:05	18.17	763	85.9	8.07	7.82	77.3	780	190	88.3	472	15.0	483	1330	12.0	0.025	3.29	3.32	0.55	0.292	10	180
6/17/2010 9:15	22.57	447	100.5	8.68	7.75	31.0	449	127	40.4	300	97.0	3290	648	25.0	0.053	5.26	5.31	1.41	0.339	44	1300
6/21/2010 11:40	24.71	588	104.5	8.67	7.73	47.4	583	162	65.9	370	34.0	1420	834	18.0	0.069	5.10	5.17	0.65	0.426	10	1000
6/29/2010 9:00	24.40	499	72.0	6.01	7.59	50.5	496	120	50.7	304	61.0	1910	561	21.0	0.055	2.48	2.54	0.66	0.266	10	1000
7/13/2010 9:30	25.70	578	78.1	6.36	7.88	60.7		167	83.0	406	64.0	1590	1270	27.0							2200
7/27/2010 8:05	25.73	645	86.1	7.01	7.73	71.1	649	216	78.9	402	29.0	629	962	15.0	0.025	1.44	1.47	0.60	0.339	10	250
7/28/2010 18:00						80.6		242	103.0	478	24.0	461	1080	14.0	0.025	2.80	2.83	0.82	0.559		
8/11/2010 9:20	26.69	820	83.3	6.65	7.71	86.5	834	278	119.0	526	18.0	434	1300	27.0	0.025	3.56	3.59	0.88	0.759	10	220
8/24/2010 9:35	23.87	708	88.6	7.46	7.36	69.4	715	236	93.9	424	17.0	565	1030	31.0	0.025	2.32	2.35	0.78	0.400	10	230
9/8/2010 9:05	21.26	958	81.6	7.23	7.46	99.8	983	314	129.0	614	10.0	354	1440	18.0	0.025	4.09	4.12	0.70	0.784	21	40
9/28/2010 10:10						100.0	919	299	125.0	564	10.0	347	1400	20.0	0.232	4.46	4.69	1.20	0.939	10	760
10/28/2010 9:50						74.2	684	221	77.1	396	14.0	568	838	21.0	0.050	1.60	1.65	0.95	0.420	24	15000
11/17/2010 0:00	10.67	906	87.1	9.65	7.78	91.9	939	310	134.0	564	15.0	452	1470	32.0	0.025	5.40	5.43	1.22	1.170	20	1200
11/30/2010 0:00	7.90	717	105.0	12.44	8.03	66.7	739	281	115.0	424	20.0	629	1820	17.0	0.063	1.48	1.54	1.06	0.290	21	2900
300965 Eversole Run @ Concord Road (RM 2.20)																					
6/28/2010 10:00	21.21	357	84.8	7.51	7.80	44.8	363	85	42.5	286	268.0	12400	449	54.0	0.154	2.95	3.10	1.08	0.259	24	18000
7/12/2010 9:55	21.10	671	87.6	7.78	7.96	45.9		200	95.5	422	17.0	879	2330	5.0							3400
7/26/2010 10:00	19.71	715	85.4	7.78	7.80	78.8	740	283	58.3	434	17.0	457	2020	5.0	0.025	0.20	0.23	0.55	0.066	30	490
8/10/2010 9:45	18.84	1119	38.5	3.57	7.13	97.2	1140	459	126.0	686	6.0	403	3350	5.0	0.025	0.25	0.28	0.53	0.031	10	140
8/23/2010 10:05	18.70	875	67.6	6.30	7.23	74.0	868	364	80.3	518	2.5	403	2660	12.0	0.051	0.10	0.15	0.53	0.054	10	230
9/7/2010 9:40	15.59	1199	41.0	4.07	7.03	75.1	1200	565	127.0	728	2.5	424	4630	5.0	0.075	0.05	0.13	0.39	0.023	10	10
203160 Eversole Run @ Cook Road (RM 1.30)																					
1/26/2010 11:05	1.51	407	99.4	13.91	7.85	43.0	426	173		362	12.0	6210	421	24.0	0.025	6.06	6.09	1.25	0.179	27	
2/23/2010 8:45	-0.29	1117	94.9	13.93	7.84	224.0	1110	296		690	5.0	944	891	10.0	0.483	5.40	5.88	1.37	0.085	10	
3/11/2010 11:40	5.21	245	80.5	10.21	7.71	21.7	247	98		214	24.0	3440	207	12.0	0.025	4.03	4.06	0.69	0.198	22	
4/19/2010 10:10	10.02	838	109.5	12.31	8.05	74.1	856	207		488	2.5	256	2190	10.0	0.025	0.05	0.08	0.36	0.012	20	
5/17/2010 11:45	15.56	726	82.9	8.23	8.01	57.1	736	200	68.9	448	2.5	211	1600	10.0	0.025	4.38	4.41	0.23	0.064	10	60

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
6/17/2010 11:50	20.53	441	112.3	10.09	7.98	27.3	447	127	28.7	296	13.0	1480	567	10.0	0.025	1.68	1.71	1.43	0.318	50	400
6/28/2010 9:30	21.31	327	83.5	7.38	7.71	41.9	336	82	40.6	282	266.0	12600	332	52.0	0.164	3.47	3.63	1.14	0.379	27	14000
6/28/2010 12:45						39.1			34.1	270	105.0				0.119	4.14	4.26	1.29	0.323		
7/8/2010 10:54						50.4			73.4	494	10.0										
7/12/2010 9:40	21.37	649	81.1	7.17	7.78	46.1		195	66.1	378	8.0	482	1930	10.0							1300
7/21/2010 12:35						60.2			65.6	436	9.0				0.025	0.20	0.23	0.65	0.032		
7/26/2010 9:45	21.04	700	85.0	7.55	7.96	52.3	718	308	67.4	418	2.5	302	2330	10.0	0.025	0.22	0.25	0.38	0.080	10	400
7/28/2010 9:45						49.3		288	69.5	422	2.5	223	2200	10.0	0.025	0.16	0.19	0.41	0.051		
8/10/2010 9:30	22.92	500	82.5	7.07	8.01	61.3	725	291	73.6	466	2.5	451	2430	10.0	0.025	0.42	0.45	0.52	0.134	10	180
8/18/2010 12:30						52.3			55.6	358	5.0				0.025	0.39	0.42	0.77	0.062		
8/23/2010 9:50	20.43	669	79.1	7.13	7.90	45.3	665	296	61.2	402	5.0	281	2460	10.0	0.025	0.13	0.16	0.34	0.071	10	270
9/1/2010 12:00						77.2			81.4	542	5.0				0.025	0.05	0.08	0.62	0.077		
9/7/2010 9:25	17.52	809	56.5	5.40	7.44	43.2	742	350	72.9	448	5.0	201	3390	10.0	0.025	0.05	0.08	0.33	0.055	10	20
10/28/2010 12:20						43.2	887	450	92.3	536	2.5	266	4810	10.0	0.025	0.10	0.13	0.33	0.080	10	70
11/17/2010 0:00	5.47	790	83.7	10.53	7.79	32.0	824	426	90.0	490	2.5	178	3860	10.0	0.025	0.05	0.08	0.27	0.045	10	600
11/30/2010 0:00	6.00	647	96.1	11.94	7.86	59.6	664	274	98.1	394	8.0	1120	1800	10.0	0.025	1.52	1.55	1.00	0.150	35	2700
	300963 N.F. Indian Run @ Highland-Croy Road (RM 5.20)																				
6/28/2010 10:20	23.01	518	58.9	5.05	7.63	60.7	522	117	43.2	328	9.0	709	630	5.0	0.025	0.49	0.52	0.53	0.039	10	11000
7/12/2010 10:20	22.64	601	57.0	4.90	7.53	60.2		152	60.1	346	27.0	1690	1050	5.0							6200
7/26/2010 10:20	22.37	623	66.0	5.73	7.71	59.2	640	230	106.0	380	10.0	343	1340	5.0	0.025	0.15	0.18	0.34	0.081	10	650
8/10/2010 10:05	25.13	873	74.5	6.13	7.59	108.0	785	227	53.2	462	2.5	447	1080	5.0	2.320	3.52	5.84	0.85	0.067	35	30
8/23/2010 10:20	21.23	358	65.5	5.80	7.67	28.8	354	140	11.9	226	9.0	2430	489	17.0	0.025	0.05	0.08	0.64	0.164	28	830
	300964 N.F. Indian Run @ Coffman Road (RM 1.80)																				
6/28/2010 10:35	23.87	646	77.3	6.51	7.90	66.1	654	132	122.0	448	30.0	1140	2570	5.0	0.025	0.48	0.51	0.69	0.042	10	10000
6/28/2010 15:49						70.2			115.0	420	34.0				0.025	0.39	0.42	0.63	0.055		
7/8/2010 12:57						79.7			248.0	762	8.0										
7/12/2010 10:35	22.90	380	77.0	6.61	7.94	31.3		90	74.3	212	25.0	918	2150	5.0							15000
7/21/2010 16:00						64.9			223.0	610	9.0				0.025	0.12	0.15	0.50	0.044		
7/26/2010 10:40	23.63	771	74.0	6.26	7.86	60.4	811	312	190.0	516	13.0	509	4750	5.0	0.025	0.24	0.27	0.33	0.044	10	1100
8/10/2010 10:20	24.40	995	73.0	6.09	7.90	50.8	1010	451	294.0	706	7.0	422	8520	5.0	0.025	0.05	0.08	0.47	0.062	10	420
8/18/2010 15:20						52.4			240.0	594	16.0				0.062	0.10	0.16	0.61	0.071		
8/23/2010 10:40	22.09	828	72.8	6.34	7.84	43.3	819	354	222.0	582	8.0	518	7160	12.0	0.025	0.12	0.15	0.25	0.083	10	1300
9/1/2010 14:02						41.1			442.0	922	2.5				0.054	0.05	0.10	0.48	0.060		
9/7/2010 10:10	18.32	1178	61.5	5.76	7.67	47.0	1180	567	361.0	808	14.0	226	12500	5.0	0.056	0.05	0.11	0.38	0.062	10	110

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
300966 S.F. Indian Run @ Rec Center Drive (RM 1.30)																					
6/28/2010 10:50	23.47	614	83.0	7.03	7.94	102.0	622	107	29.7	366	10.0	565	1210	15.0	0.025	0.62	0.65	0.72	0.061	10	8500
6/28/2010 16:34						109.0			30.1	384	11.0				0.025	0.92	0.95	0.73	0.071		
7/8/2010 13:30						269.0			59.1	764	5.0										
7/12/2010 10:50	24.01	600	85.6	7.19	7.88	111.0		95	25.7	318	10.0	352	1190	5.0							1600
7/21/2010 15:14						162.0			45.0	522	5.0				0.025	0.12	0.15	0.63	0.022		
7/26/2010 10:55	23.14	724	84.0	7.17	7.86	127.0	739	177	32.7	406	2.5	156	1750	5.0	0.025	0.20	0.23	0.52	0.066	10	170
8/10/2010 10:40	24.31	966	81.1	6.76	7.88	173.0	992	236	45.6	524	2.5	144	2460	5.0	0.829	0.63	1.46	0.66	0.057	10	80
8/18/2010 16:15						126.0			46.2	442	2.5				0.025	0.05	0.08	0.65	0.070		
8/23/2010 10:50	21.59	965	149.1	13.10	8.07	164.0	996	259	50.1	532	2.5	138	2910	5.0	0.025	0.13	0.16	0.73	0.086	10	430
9/1/2010 15:45						463.0			45.8	1020	8.0				0.110	0.05	0.16	0.94	0.081		
9/7/2010 10:25	16.72	2155	27.3	2.65	7.50	505.0	2170	428	59.8	1280	2.5	277	3690	5.0	0.093	0.40	0.49	0.75	0.066	10	10
300802 Hayden Run Adj. Dexter Falls Road (RM 0.83)																					
1/26/2010 10:40	2.94	989	102.5	13.78	8.14	166.0	1020	285		584	11.0	2240	2340	11.0	0.025	6.30	6.33	1.07	0.087	20	
2/23/2010 9:15	2.72	1278	101.9	13.76	7.96	264.0	1280	330		798	19.0	968	2920	5.0	0.155	7.90	8.06	0.87	0.052	33	
3/11/2010 11:10	6.55	559	91.3	11.18	8.05	63.8	570	216		344	17.0	2470	1390	10.0	0.025	5.02	5.05	0.84	0.104	10	
4/19/2010 9:45	9.72	996	120.3	13.61	8.18	130.0	1010	207		560	2.5	127	6500	5.0	0.025	1.83	1.86	0.69	0.019	10	
5/17/2010 11:15	15.17	834	90.5	9.07	8.18	89.7	846	210	50.3	498	6.0	278	4440	5.0	0.025	5.65	5.68	0.64	0.054	10	290
6/17/2010 11:20	19.48	717	122.4	11.22	8.30	59.9	727	200	36.8	434	17.0	696	2680	5.0	0.025	5.64	5.67	0.60	0.073	10	430
6/28/2010 11:15	22.04	590	89.3	7.78	8.10	58.1	598	142	44.3	360	41.0	1520	2680	10.0	0.025	3.69	3.72	0.70	0.091	10	10000
6/28/2010 12:12						59.5			43.7	378	22.0				0.025	3.65	3.68	0.58	0.074		
7/8/2010 15:30						81.7			82.9	544	31.0										
7/12/2010 11:15	22.94	451	87.8	7.53	7.94	50.0		117	37.2	258	61.0	2200	3480	18.0							3400
7/21/2010 18:06						99.3			70.2	488	7.0				0.025	0.51	0.54	0.64	0.097		
7/26/2010 11:20	22.60	662	100.3	8.65	8.17	76.7	680	226	64.5	394	7.0	346	4920	65.0	0.025	0.44	0.47	0.34	0.080	10	280
7/28/2010 10:55						86.3		281	83.3	502	8.0	344	7170	5.0	0.025	0.36	0.39	0.55	0.084		
8/10/2010 11:10	24.21	871	100.0	8.36	8.18	87.6	880	311	94.0	524	2.5	217	9440	5.0	0.025	0.05	0.08	0.87	0.098	10	340
8/18/2010 17:45						78.7			89.3	486	5.0				0.025	0.28	0.31	0.86	0.097		
8/23/2010 11:20	21.14	860	106.6	9.46	8.27	75.9	852	340	96.2	526	2.5	266	11300	17.0	0.025	0.29	0.32	0.34	0.079	10	580
9/1/2010 16:35						50.4			104.0	486	8.0				0.025	0.19	0.22	0.43	0.079		
9/7/2010 10:55	18.22	806	108.0	10.14	8.25	47.7	806	358	97.8	488	5.0	222	14800	5.0	0.025	0.10	0.13	0.10	0.068	10	310
10/28/2010 11:55						62.8	744	293	85.4	436	2.5	131	7830	5.0	0.025	0.12	0.15	0.50	0.093	10	550
11/17/2010 0:00	7.16	631	94.8	11.44	8.02	54.0	647	238	80.2	384	2.5	282	8110	5.0	0.025	0.29	0.32	0.48	0.208	23	4100
11/30/2010 0:00	8.59	467	99.6	11.61	7.98	45.2	477	174	54.5	274	14.0	949	3730	5.0	0.073	0.83	0.90	1.00	0.115	22	3900

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml	
V03K04 Dry Run @ Holton Park (RM 1.40)																						
6/28/2010 9:15	22.86	408	90.9	7.80	7.69	68.2	440	77	27.4	254	6.0	411	349	15.0	0.025	0.58	0.61	0.43	0.042	22	3700	
7/12/2010 9:25	22.04	336	88.0	7.67	7.88	52.1		75	21.9	188	38.0	1220	393	45.0								3200
7/26/2010 9:25	22.29	698	87.6	7.61	7.92	111.0	714	173	49.7	388	2.5	110	587	5.0	0.025	0.37	0.40	0.37	0.041	10	1000	
8/10/2010 9:40	23.04	1162	80.4	6.86	8.07	173.0	1190	333	118.0	678	2.5	73	1180	5.0	0.025	0.05	0.08	0.53	0.057	10	480	
8/23/2010 10:00	21.69	733	81.4	7.15	7.84	106.0	736	197	58.7	412	2.5	104	640	17.0	0.025	0.27	0.30	0.53	0.043	10	770	
9/7/2010 9:10	18.25	1002	66.6	6.26	7.71	152.0	1030	261	104.0	578	2.5	114	942	5.0	0.025	0.15	0.18	0.61	0.062	27	590	
V03P11 Trabue Run @ McKinley Ave (RM 0.28)																						
6/28/2010 8:55	23.03	629	95.9	8.21	7.26	116.0	632	87	33.5	354	14.0	557	521	13.0	0.025	0.76	0.79	0.59	0.046	22	8200	
7/12/2010 9:10	22.37	766	92.6	8.02	8.02	145.0		122	45.5	416	62.0	1610	689	26.0								3200
7/26/2010 9:15	22.32	644	93.8	8.14	7.78	105.0	659	159	38.3	358	2.5	126	612	5.0	0.025	0.48	0.51	0.39	0.047	10	2500	
8/10/2010 9:25	19.97	967	92.0	8.35	7.53	144.0	991	265	64.5	576	2.5	70	878	5.0	0.025	0.05	0.08	0.50	0.024	10	310	
8/23/2010 9:48	17.62	906	82.5	7.86	7.44	116.0	915	300	63.1	514	9.0	585	838	20.0	0.025	0.87	0.90	0.44	0.043	10	650	
9/7/2010 8:50	14.06	1046	70.5	7.23	7.17	120.0	1090	399	67.6	602	2.5	50	855	5.0	0.025	1.97	2.00	0.33	0.036	10	130	
300968 Scioto Big Run @ Big Run Road (4.40)																						
6/28/2010 9:45	23.19	459	90.4	7.71	7.84	61.9	454	92	34.9	266	18.0	726	665	10.0	0.025	0.63	0.66	0.39	0.053	20	5800	
7/12/2010 9:50	22.18	461	85.5	7.44	7.90	60.2		140	38.4	256	176.0	4150	1000	49.0								10000
7/26/2010 9:55	22.47	544	89.9	7.78	8.03	68.1	556	166	45.1	314	2.5	153	891	5.0	0.025	0.42	0.45	0.30	0.046	10	98000	
8/10/2010 10:05	23.29	802	96.3	8.18	8.15	96.3	812	249	86.4	480	2.5	54	1500	5.0	0.025	0.23	0.26	0.45	0.113	10	920	
8/23/2010 10:25	21.64	629	93.4	8.21	7.96	73.3	631	206	56.6	352	2.5	83	1060	14.0	0.025	0.23	0.26	0.49	0.046	10	1000	
9/7/2010 9:35	17.51	894	69.0	6.59	7.82	107.0	919	295	103.0	526	2.5	83	1800	5.0	0.080	0.05	0.13	0.49	0.045	10	650	
V07K11 Scioto Big Run @ Hardy Parkway (RM 2.90)																						
1/26/2010 10:10	3.24	1042	100.3	13.37	8.17	153.0	1070	326		624	2.5	790	1170	18.0	0.025	2.07	2.10	0.99	0.068	10		
2/23/2010 9:50	2.64	1918	101.8	13.75	8.00	501.0	1910	332		1090	10.0	554	1100	24.0	0.078	1.19	1.27	0.85	0.045	10		
3/11/2010 10:40	7.09	1089	106.5	12.85	8.31	167.0	1110	327		620	2.5	355	1210	13.0	0.025	1.36	1.39	0.88	0.033	10		
4/19/2010 9:15	10.06	1058	105.0	11.80	8.06	138.0	1080	207		604	2.5	95	1530	5.0	0.025	0.74	0.77	0.57	0.016	10		
5/17/2010 10:40	15.89	978	90.6	8.93	8.14	128.0	993	192	98.5	574	2.5	97	1390	10.0	0.025	1.12	1.15	0.10	0.089	10	440	
6/17/2010 10:50	21.22	755	118.0	10.46	8.18	94.7	765	162	65.5	436	2.5	135	1020	5.0	0.025	1.29	1.32	0.52	0.088	10	560	
6/28/2010 9:55	23.30	445	92.5	7.88	7.90	58.7	443	90	34.1	258	19.0	737	582	12.0	0.025	0.68	0.71	0.41	0.059	10	4000	
7/12/2010 10:00	22.52	348	84.3	7.28	7.88	40.1		95	30.0	196	54.0	1610	552	42.0								10000
7/26/2010 10:05	22.67	550	92.4	7.96	8.06	66.7	561	171	48.9	304	2.5	142	824	5.0	0.025	0.52	0.55	0.25	0.052	10	2600	
7/28/2010 12:00						82.4		224	84.8	434	2.5	146	1100	5.0	0.025	0.49	0.52	0.40	0.083			
8/10/2010 10:15	23.70	771	108.6	9.18	8.25	85.7	786	242	95.1	470	2.5	59	1360	5.0	0.025	0.05	0.08	0.35	0.069	10	450	
8/23/2010 10:35	22.13	631	100.9	8.77	8.03	71.3	633	197	64.1	362	2.5	111	956	12.0	0.025	0.26	0.29	0.33	0.068	10	400	

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
9/7/2010 9:45	17.70	798	74.1	7.05	7.88	87.1	833	250	117.0	468	2.5	76	1400	5.0	0.025	0.73	0.76	0.46	0.089	10	480
10/28/2010 11:25						65.3	646	208	80.9	364	2.5	74	1230	5.0	0.025	0.19	0.22	0.46	0.101	10	4900
11/17/2010 0:00	8.11	419	92.2	10.88	7.93	47.7	450	127	51.2	256	2.5	318	737	21.0	0.025	0.33	0.36	1.02	0.095	25	11000
11/30/2010 0:00	9.45	295	101.7	11.62	7.97	35.4	311	99	29.8	174	52.0	1800	471	21.0	0.050	0.42	0.47	0.39	0.079	10	5600
300967 Kian Run @ Castle Road (RM 0.45)																					
6/28/2010 10:45	21.56	792	95.0	8.36	7.78	82.7	800	147	130.0	472	6.0	940	502	120.0	0.193	2.08	2.27	0.83	0.161	10	4000
7/12/2010 10:45	20.44	339	85.5	7.69	7.65	33.4		85	48.9	196	18.0	929	164	168.0							5000
7/26/2010 10:45	19.04	867	94.5	8.75	7.94	92.1	917	251	160.0	548	2.5	257	390	78.0	0.025	0.66	0.69	0.26	0.230	10	700
8/10/2010 10:50	19.42	828	103.6	9.52	7.88	80.5	864	221	173.0	514	2.5	200	430	121.0	0.025	0.05	0.08	0.10	0.310	10	290
8/23/2010 11:10	20.32	936	97.1	8.75	7.88	95.7	940	256	167.0	558	2.5	236	492	104.0	0.068	1.30	1.37	0.57	0.228	10	270
9/7/2010 10:25	17.31	916	89.3	8.55	7.82	86.0	946	274	175.0	556	6.0	338	457	111.0	0.025	0.05	0.08	0.27	0.245	10	250
300803 Grant Run @ Buckeye Parkway (RM 2.00)																					
1/26/2010 9:15	2.24	602	98.8	13.54	8.03	87.6	625	206		398	16.0	3090	948	17.0	0.025	2.24	2.27	0.86	0.094	10	
2/23/2010 10:54	1.39	1553	105.1	14.71	8.09	375.0	1540	337		2090	13.0	555	1450	5.0	0.329	2.44	2.77	1.23	0.022	10	
3/11/2010 9:55	6.63	479	94.9	11.61	8.02	57.7	483	177		302	14.0	1500	916	5.0	0.025	1.75	1.78	0.61	0.052	10	
4/19/2010 8:25	8.98	997	97.5	11.25	7.98	131.0	1020	210		560	2.5	143	2310	5.0	0.025	0.58	0.61	0.77	0.005	10	
5/17/2010 9:50	15.36	853	89.0	8.89	8.07	106.0	866	197	52.6	512	8.0	405	1670	5.0	0.025	4.45	4.48	5.83	0.059	10	300
6/17/2010 9:55	20.79	719	111.5	9.96	8.07	85.6	735	160	63.5	426	2.5	255	1460	5.0	0.025	0.51	0.54	0.51	0.045	10	650
6/29/2010 11:05	21.75	932	97.0	8.51	8.10	118.0	933	197	130.0	570	2.5	175	2180	5.0	0.025	0.30	0.33	0.76	0.014	10	1400
7/13/2010 11:20	23.23	719	89.9	7.65	7.94	85.3		165	104.0	452	2.5	251	2020	5.0							1100
7/27/2010 11:00	22.45	688	101.8	8.80	8.11	80.9	740	254	91.6	470	2.5	178	2020	5.0	0.025	0.33	0.36	0.43	0.050	10	410
7/28/2010 15:50						89.4		281	107.0	502	2.5	199	2290	5.0	0.050	0.23	0.28	0.25	0.045		
8/11/2010 10:45	24.25	701	103.5	8.65	8.10	67.9	708	265	103.0	452	2.5	171	1980	16.0	0.025	0.24	0.27	0.61	0.044	10	560
8/24/2010 11:10	20.93	762	108.0	9.63	8.17	92.2	777	247	74.3	468	2.5	190	1830	20.0	0.025	0.26	0.29	0.53	0.041	10	270
9/8/2010 10:50	18.73	528	86.0	8.01	7.82	57.6	549	175	63.6	342	2.5	195	1250	5.0	0.025	0.38	0.41	0.37	0.099	24	6300
10/28/2010 10:30						64.1	677	239	92.9	394	2.5	100	1450	5.0	0.025	0.12	0.15	0.46	0.054	21	1200
11/17/2010 0:00	7.97	427	96.7	11.45	8.08	41.6	456	157	56.7	268	2.5	257	907	5.0	0.025	0.26	0.29	0.61	0.091	22	7200
11/30/2010 0:00	8.85	413	101.1	11.72	7.98	45.2	431	145	58.1	244	11.0	623	1030	5.0	0.025	0.66	0.69	0.70	0.100	27	3500

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
300970 Grant Run Adj. Paul Talbot Circle (RM 0.20)																					
6/29/2010 10:40	20.73	632	67.8	6.07	7.84	70.3	642	140	59.5	380	10.0	361	1030	5.0	0.025	0.33	0.36	0.56	0.028	10	510
7/13/2010 10:50	22.87	473	83.3	7.15	7.94	62.5		107	45.3	308	9.0	486	779	5.0							1500
7/27/2010 10:45	22.68	437	73.4	6.32	8.13	59.6	578	202	50.3	348	2.5	272	958	14.0	0.025	0.26	0.29	0.40	0.097	10	830
8/11/2010 10:20	23.70	758	85.0	7.17	7.98	77.1	782	298	73.4	460	2.5	409	1330	18.0	0.025	0.18	0.21	0.60	0.035	10	1400
8/24/2010 10:45	20.79	669	91.4	8.15	7.90	69.4	674	240	60.6	412	2.5	254	1380	19.0	0.025	0.13	0.16	0.41	0.037	10	450
9/8/2010 10:25	17.82	617	65.8	6.23	7.90	47.5	679	292	63.2	438	7.0	472	1070	5.0	0.025	0.40	0.43	0.23	0.072	25	8900
300969 Republican Run @ Buckeye Parkway (RM 1.38)																					
6/29/2010 11:30	21.84	721	89.6	7.86	8.07	114.0	790	150	51.8	448	2.5	170	710	5.0	0.025	0.68	0.71	0.74	0.084	10	750
7/13/2010 11:40	23.44	544	86.0	7.30	7.94	73.0		122	44.9	324	9.0	454	575	10.0							4700
7/27/2010 11:20	22.51	860	94.8	8.18	8.11	125.0	863	233	55.7	502	2.5	134	939	5.0	0.025	0.61	0.64	0.56	0.116	10	700
8/11/2010 11:05	25.10	548	88.6	7.30	8.02	71.4	555	171	45.5	338	11.0	435	1140	24.0	0.025	0.58	0.61	0.50	0.106	10	4300
8/24/2010 11:30	21.01	972	101.4	9.02	8.18	128.0	989	289	75.9	590	2.5	160	1880	20.0	0.025	0.56	0.59	0.66	0.095	10	420
9/8/2010 11:10	18.94	626	71.6	6.65	7.71	86.4	649	180	62.2	382	6.0	604	2410	12.0	0.025	0.60	0.63	0.50	0.106	23	68000
V07P23 Plum Run @ SR 665 (RM 0.72)																					
1/26/2010 9:25	2.44	590	97.2	13.26	8.01	65.1	615	243		384	6.0	1770	774	5.0	0.025	2.44	2.47	0.73	0.100	10	
2/23/2010 10:55	0.64	1258	103.3	14.77	8.07	272.0	1250	338		734	7.0	576	1200	5.0	0.250	5.69	5.94	0.94	0.071	10	
3/11/2010 10:10	6.11	496	93.0	11.52	7.96	53.2	504	199		308	9.0	1220	639	5.0	0.025	1.87	1.90	0.54	0.061	10	
4/19/2010 8:30	9.32	840	83.5	9.56	7.65	76.1	855	227		480	2.5	481	1240	5.0	0.025	0.48	0.51	0.44	0.016	22	
5/17/2010 10:00	15.00	756	81.1	8.17	7.92	71.8	780	200	41.1	458	2.5	267	1150	5.0	0.025	4.20	4.23	0.10	0.048	10	190
6/17/2010 10:10	19.51	662	98.8	9.06	7.82	58.8	665	172	37.8	416	8.0	959	890	5.0	0.025	4.55	4.58	0.94	0.146	24	880
6/29/2010 10:00	17.06	839	60.7	5.84	7.46	72.4	843	252	74.9	514	2.5	820	731	5.0	0.025	0.40	0.43	0.48	0.031	10	700
7/13/2010 10:20	18.43	719	52.7	4.94	7.57	59.6		200	66.0	420	2.5	822	644	5.0							630
7/27/2010 10:10	17.47	854	71.3	6.80	7.82	68.9	858	379	80.4	506	5.0	910	719	5.0	0.063	0.22	0.28	0.26	0.020	10	400
7/28/2010 15:05						66.9		273	86.9	530	14.0	415	1830	22.0	0.058	0.16	0.22	0.43	0.028		
8/11/2010 9:50	17.89	878	56.2	5.32	7.57	70.1	888	428	86.9	514	2.5	851	772	12.0	0.025	0.13	0.16	0.28	0.020	10	500
8/24/2010 10:15	16.65	874	59.2	5.75	7.42	66.7	887	400	80.1	520	2.5	919	791	21.0	0.025	0.05	0.08	0.34	0.016	10	150
9/8/2010 9:55	14.28	860	44.7	4.55	7.36	67.9	881	420	78.5	516	2.5	994	804	5.0	0.025	0.05	0.08	0.10	0.017	10	1300
10/28/2010 10:45						62.7	813	409	72.7	470	2.5	1220	758	5.0	0.025	0.10	0.13	0.10	0.037	10	230
11/17/2010 0:00	8.71	796	66.2	7.68	7.54	63.7	848	372	91.4	494	2.5	599	593	5.0	0.025	0.10	0.13	0.38	0.015	10	170
11/30/2010 0:00	8.89	540	84.3	9.76	7.63	47.2	566	243	80.8	330	2.5	451	675	5.0	0.025	1.20	1.23	0.75	0.109	10	5300
300972 Peter's Run @ SR 762																					
6/29/2010 9:20	20.14	707	72.5	6.57	7.82	29.7	702	210	61.0	414	5.0	440	1400	5.0	0.025	0.62	0.65	0.24	0.005	10	530
7/13/2010 9:50	22.04	716	66.9	5.84	7.51	26.5		215	98.4	454	10.0	541	1600	5.0							710

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
7/27/2010 8:35	18.29	707	51.7	4.86	7.50	24.7	712	368	61.8	426	8.0	699	1820	5.0	0.060	0.82	0.88	0.10	0.029	10	560
8/11/2010 9:15	21.87	725	49.0	4.28	7.42	25.5	733	386	98.5	488	8.0	580	1710	14.0	0.082	0.45	0.53	0.23	0.034	10	660
8/24/2010 9:40	19.29	718	54.0	4.98	7.53	23.8	725	361	83.6	452	12.0	852	1430	18.0	0.075	0.49	0.57	0.34	0.037	10	990
9/8/2010 9:15	15.97	703	37.9	3.73	7.40	23.4	717	380	60.5	432	8.0	689	1590	5.0	0.077	0.84	0.92	0.10	0.028	10	1800
300973 Grove Run @ Gibson Road (RM 1.58)																					
6/29/2010 9:45	20.97	622	73.8	6.57	8.10	46.6	621	162	42.1	372	2.5	250	1040	5.0	0.025	0.58	0.61	0.50	0.051	10	630
7/13/2010 10:00	22.44	658	78.6	6.80	8.03	46.8		175	51.1	426	6.0	305	1090	5.0							2800
7/27/2010 9:55	21.67	642	70.9	6.23	8.18	50.7	655	276	42.4	394	5.0	188	980	5.0	0.061	0.18	0.24	0.40	0.056	10	430
8/11/2010 9:25	23.62	661	49.9	4.21	7.88	50.4	673	303	50.2	420	2.5	268	964	16.0	0.025	0.17	0.20	0.60	0.072	10	15000
8/24/2010 9:55	20.54	500	66.1	5.94	7.88	35.9	500	208	30.0	296	9.0	444	642	19.0	0.025	0.20	0.23	0.37	0.071	10	1000
9/8/2010 9:25	17.78	559	38.4	3.64	7.69	41.6	574	251	31.8	326	11.0	345	768	5.0	0.025	0.16	0.19	0.29	0.039	22	230
300974 Van Meter Run @ SR 104 (RM 1.00)																					
6/29/2010 10:20	20.21	677	97.4	8.80	8.06	24.9	675	210	27.8	400	2.5	157	420	5.0	0.025	7.60	7.63	0.42	0.035	10	650
7/13/2010 10:40	21.68	697	85.0	7.46	8.01	31.8		210	30.3	400	2.5	153	553	5.0							500
7/27/2010 9:10	21.18	696	76.0	6.73	8.07	32.5	701	349	42.2	414	2.5	109	378	5.0	0.025	1.62	1.65	0.10	0.026	10	160
8/11/2010 10:35	23.57	682	80.0	6.78	7.96	29.1	683	368	45.4	422	2.5	119	388	13.0	0.025	0.90	0.93	0.28	0.039	10	370
8/24/2010 10:30	20.72	717	98.6	8.81	8.07	30.0	706	359	39.3	414	2.5	114	367	16.0	0.025	1.32	1.35	0.27	0.031	10	350
9/8/2010 10:15	17.48	545	55.0	5.26	7.94	24.4	729	379	59.9	436	2.5	104	371	5.0	0.025	0.74	0.77	0.10	0.074	10	770
300975 Dry Run @ Belle Station Road (RM 3.70)																					
6/29/2010 9:30	20.32	614	95.5	8.61	8.14	26.0	613	192	39.5	376	2.5	253	527	5.0	0.025	4.07	4.10	0.36	0.030	10	2100
7/13/2010 10:00	22.21	662	93.0	8.09	8.27	27.3		220	42.7	382	2.5	150	636	5.0							1400
7/27/2010 8:30	20.88	609	78.4	6.98	8.18	27.6	612	298	42.6	382	2.5	163	594	5.0	0.025	0.69	0.72	0.20	0.038	10	810
8/11/2010 9:50	23.44	571	116.0	9.85	8.18	22.0	579	288	39.1	350	2.5	56	532	30.0	0.025	0.32	0.35	0.29	0.055	10	80
8/24/2010 9:50	20.37	611	102.1	9.21	8.19	20.0	603	306	36.6	364	2.5	83	531	23.0	0.025	0.87	0.90	0.31	0.043	10	690
300976 Dry Run @ Island Road (RM 0.50)																					
6/29/2010 9:15	19.47	638	81.8	7.51	7.67	26.0	638	217	40.5	388	7.0	587	375	5.0	0.025	2.51	2.54	0.41	0.049	10	1100
7/13/2010 9:45	19.79	754	81.4	7.40	7.73	28.5		262	48.3	428	5.0	516	466	5.0							690
7/27/2010 8:20	18.13	715	88.1	8.31	7.86	31.2	741	381	49.0	458	2.5	419	450	5.0	0.025	0.56	0.59	0.10	0.038	10	390
8/11/2010 9:35	19.53	744	93.5	8.56	7.84	29.2	750	394	51.6	462	2.5	384	476	28.0	0.025	1.21	1.24	0.10	0.024	10	620
8/24/2010 9:40	18.53	747	102.0	9.52	7.76	31.3	744	377	49.0	460	2.5	417	471	22.0	0.025	0.26	0.29	0.27	0.027	10	410
9/8/2010 9:20	16.90	765	80.0	7.73	7.75	30.6	784	402	55.0	460	2.5	314	459	5.0	0.025	0.25	0.28	0.10	0.017	10	330

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	Cond mg/l	Hard mg/l	S04 mg/l	TDS mg/l	TSS mg/l	Fe mg/l	Sr mg/l	Zn mg/l	NH3 mg/l	N02+ N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml	
300977 Griffy Run @ Walnut Creek Pike (RM 1.10)																						
6/29/2010 9:45	19.98	662	92.0	8.35	8.03	31.2	663	205	37.7	394	2.5	309	326	5.0	0.025	2.76	2.79	0.29	0.030	10	1200	
7/13/2010 10:10	21.23	714	87.6	7.76	8.05	29.3		242	40.5	414	6.0	361	418	5.0								920
7/27/2010 8:45	20.30	682	88.4	7.96	8.13	31.3	690	329	41.2	408	8.0	335	361	5.0	0.025	1.40	1.43	0.21	0.041	10	950	
8/11/2010 10:05	22.95	698	82.6	7.09	8.02	30.0	694	359	49.9	430	5.0	234	374	28.0	0.025	0.48	0.51	0.29	0.043	10	990	
8/24/2010 10:00	20.38	589	93.0	8.36	8.06	22.8	579	283	39.3	360	6.0	418	297	21.0	0.025	0.15	0.18	0.26	0.055	10	660	
9/8/2010 9:40	17.53	738	53.5	5.09	7.88	29.3	758	388	59.8	452	2.5	173	369	5.0	0.025	0.10	0.13	0.20	0.053	10	480	

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	SO4 mg/l	TDS mg/l	TSS mg/l	NH3 mg/l	N02+N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
V02S23 Bokes C. @ Phelps Rd. (RM 27.22)																
6/30/10 9:35	19.28	478	72.3	6.65	7.59	24.6	64.2	376	12.0	0.06	8.40	8.46	1.53	0.21	29	950
7/14/10 9:00	21.61	583	73.1	6.44	7.80	26.8	73.0	380	15.0	0.06	3.57	3.63	1.15	0.26	30	590
7/28/10 10:20	23.26	768	55.7	4.75	7.82	45.3	116.0	506	6.0	0.08	0.16	0.24	0.86	0.25	33	560
8/12/10 9:50	23.89	640	34.0	2.85	7.57	40.8	80.5	416	5.0	0.10	0.18	0.28	1.03	0.33	33	340
8/25/10 9:05	20.84	714	41.2	3.69	7.63	40.5	105.0	474	11.0	0.07	0.11	0.18	0.72	0.24	24	230
9/9/10 9:45	16.30	746	40.2	3.94	7.55	48.5	105.0	476	32.0	0.05	0.10	0.15	0.92	0.26	40	320
V03S22 Bokes C. @ Yardsley Rd. (RM 21.29)																
6/30/10 10:15	19.60	428	62.0	5.69	7.71	23.5	53.2	346	18.0	0.19	9.42	9.61	2.01	0.13	35	850
7/14/10 10:05	21.71	596	64.1	5.63	7.67	23.7	117.0	414	21.0	0.08	3.37	3.45	1.20	0.27	34	630
7/28/10 11:00	24.46	899	59.5	4.96	7.88	37.8	230.0	634	11.0	0.13	0.35	0.48	0.71	0.22	22	770
8/12/10 10:20	24.62	982	39.2	3.25	7.61	35.2	298.0	704	10.0	0.40	0.39	0.79	1.23	0.28	20	610
8/25/10 9:40	20.98	936	45.7	4.05	7.76	47.5	238.0	666	17.0	0.15	0.20	0.35	0.52	0.20	20	180
9/9/10 10:10	16.28	1213	73.4	7.17	7.84	55.9	398.0	868	17.0	0.13	0.14	0.27	0.75	0.19	24	330
V02K05 Bokes C. Adj. SR 31 (RM 20.20)																
6/30/10 10:30	20.54	445	58.9	5.28	7.61	25.7	53.3	378	19.0	0.27	9.95	10.22	2.33	0.23	40	700
7/14/10 10:15	22.10	602	63.2	5.50	7.65	30.9	102.0	408	17.0	0.05	3.23	3.28	1.52	0.27	37	310
7/28/10 11:10	24.42	693	58.4	4.86	7.88	42.7	112.0	478	12.0	0.07	0.27	0.34	0.87	0.23	32	280
8/12/10 10:30	24.22	853	43.5	3.64	7.63	40.0	211.0	600	7.0	0.09	0.34	0.43	0.80	0.31	21	400
8/25/10 9:55	20.70	770	50.5	4.51	7.75	47.6	130.0	524	9.0	0.05	0.24	0.29	0.58	0.23	26	450
9/9/10 10:20	15.00	1132	34.5	3.48	7.69	50.0	345.0	816	5.0	0.14	0.10	0.24	0.64	0.19	20	80
V02S21 Bokes C. @ Taylor-Claiborne Rd. (RM 14.73)																
6/30/10 10:40	20.28	463	80.0	7.21	7.80	24.6	72.7	384	17.0	0.37	9.61	9.98	2.08	0.13	33	300
7/14/10 10:30	22.70	565	91.5	7.88	8.02	29.1	76.8	376	15.0	0.05	2.23	2.28	1.04	0.23	33	290
7/28/10 11:25	24.45	699	99.9	8.31	8.11	33.1	123.0	512	22.0	0.06	0.13	0.19	0.78	0.18	31	360
8/12/10 10:45	24.73	387	82.0	6.80	7.92	42.0	104.0	446	5.0	0.09	0.40	0.49	1.63	0.22	25	130
8/25/10 10:10	21.36	822	86.1	7.61	8.21	35.5	176.0	586	10.0	0.05	0.10	0.15	1.08	0.19	22	290
9/9/10 10:40	15.61	980	60.5	6.01	7.90	39.7	271.0	696	13.0	0.05	0.10	0.15	0.68	0.17	20	80

DATE	Temp. C	Sp. Cond. uS/cm	D.O. % sat.	D.O. mg/l	pH S.U.	Cl mg/l	SO4 mg/l	TDS mg/l	TSS mg/l	NH3 mg/l	N02+N03 mg/l	TIN mg/l	TKN mg/l	TP mg/l	COD mg/l	E.coli #/100 ml
V02K11 Powderlick Run @ SR 379 (RM 3.2)																
6/30/10 9:55	17.95	940	64.5	6.09	7.71	132.0	79.0	680	15.0	0.29	11.30	11.59	3.18	0.25	44	1500
7/14/10 9:45	20.64	884	61.5	5.50	7.73	110.0	68.7	530	73.0	0.19	3.47	3.66	2.65	0.61	54	3000
7/28/10 10:46	23.40	3585	94.6	7.96	8.10	831.0	178.0	2130	178.0	2.54	0.11	2.65	4.30	0.91	48	1000
8/12/10 10:00	22.65	2301	52.7	4.53	7.80	563.0	139.0	1530	24.0	2.56	0.13	2.69	4.71	0.88	40	350
8/25/10 9:20	19.75	4361	43.5	3.92	7.84	1120.0	309.0	2760	14.0	1.35	0.20	1.55	2.80	0.79	46	1600
V02K09 Powderlick Run @ Pow. Run Rd. (RM 1.2)																
6/30/10 10:05	17.60	834	49.2	4.69	7.50	109.0	83.1	626	5.0	0.08	8.61	8.69	2.55	0.28	37	710
7/14/10 9:55	20.55	817	46.5	4.17	7.42	105.0	63.1	504	5.0	0.05	0.74	0.79	1.98	0.46	42	100
7/28/10 10:50	21.85	1286	34.2	2.99	7.46	108.0	213.0	848	5.0	0.05	0.10	0.15	1.00	0.25	26	170
8/12/10 10:10	22.40	1109	17.7	1.52	7.28	112.0	132.0	700	5.0	0.07	0.10	0.17	1.52	0.41	28	140
8/25/10 9:30	19.70	1121	37.4	3.41	7.55	131.0	116.0	670	5.0	0.05	0.10	0.15	1.11	0.29	26	50
9/9/10 10:00	16.18	1695	50.0	4.88	7.51	140.0	368.0	1150	8.0	0.06	0.10	0.16	0.94	0.30	33	60

Appendix Table C. Summary of data recorded with Datasonde® continuous monitors in the Middle Scioto River study area during 2010.

Stream	River Mile	STORET	#Record	Temperature (C)				pH (SU)				Sp Conductivity (mS/cm)				Dissolved Oxygen (mg/l)			
				Min	Ave	Max	Range	Min	Ave	Max	Range	Min	Ave	Max	Range	Min	Ave	Max	Range
Dates sampled: July 17-19																			
Scioto River	127.7	600870	48	27.09	27.59	28.77	1.68	8.10	8.37	8.84	0.74	491	513	540	49	5.89	8.46	14.29	8.40
Scioto River	109.4	600910	47	25.61	26.81	27.93	2.32	7.40	7.56	7.78	0.38	616	710	777	161	6.38	7.90	10.18	3.80
Scioto River	126.5	V07W08	49	25.31	26.25	27.48	2.17	7.78	8.03	8.31	0.53	595	639	682	87	6.89	8.84	11.11	4.22
Scioto River	102.1	601340	49	25.91	26.66	28.02	2.11	7.79	7.96	8.12	0.33	560	642	687	127	6.40	8.03	9.79	3.39
Eversole Run	2.2	300965	50	20.50	22.57	25.55	5.05	7.44	7.72	8.07	0.63	716	746	776	60	3.95	6.65	10.21	6.26
Eversole Run	1.3	203160	51	22.08	24.33	27.15	5.07	7.51	7.74	8.08	0.57	657	691	724	67	5.57	7.98	11.16	5.59
North Fork Indian R	5.2	300963	51	22.57	25.47	29.38	6.81	7.39	7.78	8.26	0.87	689	850	1080	391	0.73	5.23	11.95	11.22
North Fork Indian R	1.8	300964	51	24.11	25.16	26.44	2.33	7.75	7.87	7.97	0.22	866	883	903	37	4.94	6.03	7.14	2.20
South Fork Indian R	1.3	300966	51	22.61	24.66	26.96	4.35	7.46	7.82	8.33	0.87	848	968	1042	194	5.10	8.22	12.72	7.62
Hayden Run	0.83	300802	51	23.00	24.75	26.90	3.90	8.02	8.13	8.29	0.27	787	846	889	102	6.99	7.74	8.96	1.97
Dry Run	1.4	V03K04	46	22.48	24.51	27.22	4.74	7.92	8.06	8.27	0.35	1090	1209	1293	203	6.65	8.07	10.61	3.96
Trabue Run	0.28	V03P11	46	21.58	23.13	24.29	2.71	7.77	7.90	8.08	0.31	843	915	967	124	7.27	7.77	8.71	1.44
Scioto Big Run	4.4	300968	49	23.13	24.31	25.62	2.49	8.01	8.07	8.15	0.14	669	737	790	121	7.09	7.56	8.44	1.35
Scioto Big Run	2.9	V07K11	49	23.45	24.69	26.25	2.80	8.04	8.13	8.25	0.21	686	753	797	111	7.24	7.99	9.65	2.41
Kian Run	0.1	300967	49	19.57	20.73	21.98	2.41	7.41	7.49	7.57	0.16	785	883	983	198	6.19	7.03	7.66	1.47
Republican Run	1.38	300969	49	23.07	24.36	25.87	2.80	7.88	8.00	8.11	0.23	714	841	932	218	6.06	7.12	9.05	2.99
Grant Run	2.0	300803	49	23.21	24.65	26.18	2.97	7.84	8.02	8.24	0.40	647	711	739	92	5.23	6.88	8.95	3.72
Grant Run	0.2	300970	49	23.71	24.98	26.23	2.52	7.93	8.03	8.19	0.26	609	663	689	80	6.54	7.53	9.08	2.54
Plum Creek	0.72	V07P23	50	17.23	18.39	19.57	2.34	7.33	7.44	7.49	0.16	850	860	870	20	4.07	4.99	6.18	2.11
Peters Run	1.75	300972	49	20.81	22.35	23.55	2.74	7.72	7.75	7.83	0.11	648	670	685	37	5.50	6.22	7.72	2.22
Grove Run	1.58	300973	50	23.27	24.49	25.80	2.53	7.77	7.91	8.09	0.32	587	606	666	79	4.85	6.28	8.45	3.60
Van Meter Run	1.0	300974	50	22.41	23.88	25.63	3.22	8.00	8.11	8.25	0.25	636	664	685	49	6.54	7.66	9.46	2.92
Dry Run	3.70	300975	49	22.92	24.03	25.11	2.19	8.00	8.06	8.13	0.13	565	588	601	36	7.66	8.02	8.54	0.88
Dry Run	0.5	300976	48	19.96	21.51	23.35	3.39	7.69	7.75	7.84	0.15	637	674	695	58	7.00	7.54	8.42	1.42
Griffy Run	1.1	300977	50	21.76	22.58	23.46	1.70	7.96	8.07	8.12	0.16	644	671	690	46	7.32	7.60	7.92	0.60

Appendix Table D. Hourly data recorded with Datasonde© continuous monitors in the Middle Scioto River study area during 2010.

Scioto River at Columbus @ Frank Rd.

River Mile:	127.74	Local Substrate:	Gravel/rocky
Storet:	600870	Local Velocity (ft/s):	0.6
Flow Regime:	Normal	Local Depth (ft):	2.0
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	12:00	27.09	8.1	506	6.39	82.3
7/20/2010	13:00	27.19	8.17	503	6.83	88.1
7/20/2010	14:00	27.14	8.18	501	7.1	91.5
7/20/2010	15:00	27.32	8.37	498	8.35	108
7/20/2010	16:00	27.61	8.51	494	9.74	126.6
7/20/2010	17:00	27.77	8.63	492	10.73	139.9
7/20/2010	18:00	27.86	8.65	491	10.98	143.4
7/20/2010	19:00	27.69	8.54	493	9.91	129.1
7/20/2010	20:00	27.68	8.5	495	9.49	123.5
7/20/2010	21:00	27.71	8.5	495	9.3	121.1
7/20/2010	22:00	27.72	8.48	495	9.07	118.1
7/20/2010	23:00	27.74	8.46	497	8.73	113.8
7/21/2010	0:00	27.79	8.49	499	8.75	114.2
7/21/2010	1:00	27.72	8.46	499	8.57	111.7
7/21/2010	2:00	27.64	8.37	502	7.95	103.4
7/21/2010	3:00	27.56	8.35	504	7.74	100.5
7/21/2010	4:00	27.45	8.28	506	7.27	94.2
7/21/2010	5:00	27.39	8.25	508	7.07	91.6
7/21/2010	6:00	27.32	8.2	511	6.74	87.1
7/21/2010	7:00	27.26	8.15	511	6.47	83.7
7/21/2010	8:00	27.23	8.18	512	6.67	86.2
7/21/2010	9:00	27.19	8.16	513	6.58	84.9
7/21/2010	10:00	27.24	8.23	512	7.09	91.6
7/21/2010	11:00	27.13	8.14	515	6.57	84.7
7/21/2010	12:00	27.22	8.2	516	7.04	90.9
7/21/2010	13:00	27.45	8.32	514	8.05	104.4
7/21/2010	14:00	27.84	8.41	514	8.9	116.3
7/21/2010	15:00	28.05	8.51	514	9.94	130.2
7/21/2010	16:00	28.5	8.64	510	11.43	151
7/21/2010	17:00	28.77	8.83	508	13.99	185.7
7/21/2010	18:00	28.69	8.84	510	14.29	189.4
7/21/2010	19:00	28.39	8.8	513	13.94	183.8
7/21/2010	20:00	28.16	8.69	516	12.39	162.7
7/21/2010	21:00	27.78	8.48	520	10.08	131.5
7/21/2010	22:00	27.77	8.48	520	9.9	129.1
7/21/2010	23:00	27.77	8.45	521	9.4	122.6
7/22/2010	0:00	27.7	8.41	522	8.87	115.6
7/22/2010	1:00	27.65	8.37	523	8.2	106.7
7/22/2010	2:00	27.62	8.36	525	7.92	103
7/22/2010	3:00	27.55	8.31	526	7.32	95.1
7/22/2010	4:00	27.47	8.27	528	6.85	88.8
7/22/2010	5:00	27.35	8.21	530	6.39	82.7
7/22/2010	6:00	27.22	8.14	534	6.06	78.2
7/22/2010	7:00	27.17	8.12	534	6.02	77.7
7/22/2010	8:00	27.09	8.1	537	5.89	75.9
7/22/2010	9:00	27.14	8.14	536	6.28	81
7/22/2010	10:00	27.17	8.18	537	6.54	84.4
7/22/2010	11:00	27.14	8.16	540	6.44	83.1

Appendix Table X - 2. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Scioto River @ State Route 316

River Mile:	109.37	Local Substrate:	Boulder/gravel
Storet:	600910	Local Velocity (ft/s):	2.0
Flow Regime:	Normal	Local Depth (ft):	2.0
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	14:00	26.08	7.51	616	7.69	97.3
7/20/2010	15:00	26.4	7.59	621	8.35	106.3
7/20/2010	16:00	26.57	7.66	626	8.86	113.1
7/20/2010	17:00	26.71	7.72	630	9.31	119.2
7/20/2010	18:00	26.79	7.77	635	9.6	123
7/20/2010	19:00	26.78	7.77	640	9.64	123.6
7/20/2010	20:00	26.81	7.77	646	9.58	122.9
7/20/2010	21:00	26.88	7.75	653	9.31	119.6
7/20/2010	22:00	26.92	7.71	660	9.03	116.1
7/20/2010	23:00	26.99	7.68	668	8.68	111.7
7/21/2010	0:00	27.09	7.64	676	8.34	107.6
7/21/2010	1:00	27.13	7.6	682	8.04	103.7
7/21/2010	2:00	27.02	7.57	688	7.73	99.5
7/21/2010	3:00	26.9	7.54	694	7.5	96.3
7/21/2010	4:00	26.81	7.51	698	7.27	93.3
7/21/2010	5:00	26.75	7.48	702	7.02	89.9
7/21/2010	6:00	26.7	7.45	706	6.78	86.8
7/21/2010	7:00	26.51	7.43	709	6.61	84.3
7/21/2010	8:00	26.21	7.42	711	6.6	83.7
7/21/2010	9:00	25.92	7.42	714	6.61	83.4
7/21/2010	10:00	25.75	7.42	717	6.64	83.5
7/21/2010	11:00	25.64	7.42	720	6.67	83.8
7/21/2010	12:00	25.61	7.44	721	6.81	85.5
7/21/2010	13:00	25.78	7.5	722	7.24	91.2
7/21/2010	14:00	26.02	7.53	723	7.77	98.3
7/21/2010	15:00	26.29	7.59	725	8.37	106.4
7/21/2010	16:00	26.65	7.71	726	9.09	116.3
7/21/2010	17:00	26.89	7.73	727	9.6	123.3
7/21/2010	18:00	27.19	7.76	727	9.97	128.8
7/21/2010	19:00	27.59	7.78	728	10.18	132.4
7/21/2010	20:00	27.8	7.75	729	9.79	127.9
7/21/2010	21:00	27.89	7.69	731	9.36	122.4
7/21/2010	22:00	27.91	7.64	731	8.79	115
7/21/2010	23:00	27.93	7.61	729	8.39	109.8
7/22/2010	0:00	27.87	7.58	729	7.97	104.2
7/22/2010	1:00	27.75	7.54	733	7.62	99.4
7/22/2010	2:00	27.64	7.5	740	7.31	95.2
7/22/2010	3:00	27.46	7.47	745	7.05	91.5
7/22/2010	4:00	27.31	7.45	752	6.84	88.5
7/22/2010	5:00	27.15	7.43	756	6.69	86.3
7/22/2010	6:00	27.02	7.42	760	6.55	84.3
7/22/2010	7:00	26.87	7.4	764	6.43	82.6
7/22/2010	8:00	26.75	7.4	767	6.38	81.8
7/22/2010	9:00	26.61	7.4	770	6.46	82.6
7/22/2010	10:00	26.38	7.41	773	6.62	84.2
7/22/2010	11:00	26.25	7.43	775	6.92	87.8
7/22/2010	12:00	26.26	7.47	777	7.45	94.6

Appendix Table X - 3. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Scioto River @ Commercial Point Rd.						
River Mile:	102.14	Local Substrate:	Boulder, gravel, silt			
Storet:	601340	Local Velocity (ft/s):	1.5 to 0.1			
Flow Regime:	Normal	Local Depth (ft):	2.0 to 0.4			
Local Rainfall:	None					
Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	14:00	26.38	7.87	560	7.55	96.1
7/20/2010	15:00	26.57	7.95	567	8.05	102.7
7/20/2010	16:00	26.77	8.02	574	8.59	110
7/20/2010	17:00	26.81	8.05	581	8.79	112.7
7/20/2010	18:00	26.85	8.08	586	9	115.4
7/20/2010	19:00	26.87	8.1	589	9.17	117.7
7/20/2010	20:00	26.86	8.11	592	9.17	117.7
7/20/2010	21:00	26.81	8.09	594	9.03	115.8
7/20/2010	22:00	26.73	8.07	597	8.83	113.1
7/20/2010	23:00	26.65	8.04	600	8.6	109.9
7/21/2010	0:00	26.56	8.02	603	8.4	107.3
7/21/2010	1:00	26.47	8	606	8.21	104.6
7/21/2010	2:00	26.37	7.98	608	8.01	101.9
7/21/2010	3:00	26.28	7.96	611	7.8	99.1
7/21/2010	4:00	26.19	7.94	615	7.63	96.7
7/21/2010	5:00	26.12	7.92	618	7.45	94.4
7/21/2010	6:00	26.08	7.9	622	7.27	92
7/21/2010	7:00	26.06	7.88	625	7.12	90.1
7/21/2010	8:00	26.05	7.88	628	7.04	89.1
7/21/2010	9:00	26.08	7.87	633	7	88.6
7/21/2010	10:00	26.11	7.87	637	6.96	88.1
7/21/2010	11:00	26.14	7.86	642	6.92	87.6
7/21/2010	12:00	26.27	7.87	646	7.25	92.1
7/21/2010	13:00	26.62	7.92	650	7.68	98.1
7/21/2010	14:00	26.72	7.95	653	7.99	102.3
7/21/2010	15:00	26.91	7.98	656	8.42	108.2
7/21/2010	16:00	27.1	8.01	658	8.8	113.5
7/21/2010	17:00	27.34	8.05	660	9.32	120.7
7/21/2010	18:00	27.45	8.07	662	9.62	124.8
7/21/2010	19:00	27.52	8.08	664	9.79	127.2
7/21/2010	20:00	27.49	8.07	666	9.68	125.7
7/21/2010	21:00	27.23	8.03	668	8.69	112.3
7/21/2010	22:00	26.98	7.99	670	8.64	111.2
7/21/2010	23:00	26.75	7.95	674	8.05	103.2
7/22/2010	0:00	26.57	7.92	675	7.58	96.7
7/22/2010	1:00	26.49	7.91	676	7.75	98.8
7/22/2010	2:00	26.31	7.85	677	7.08	90
7/22/2010	3:00	26.11	7.84	678	7.26	92
7/22/2010	4:00	26.04	7.83	679	7.2	91
7/22/2010	5:00	25.91	7.79	681	6.66	84
7/22/2010	6:00	26	7.79	681	6.4	80.8
7/22/2010	7:00	26.08	7.79	683	6.68	84.5
7/22/2010	8:00	26.19	7.79	682	6.6	83.7
7/22/2010	9:00	26.36	7.84	684	7	89.1
7/22/2010	10:00	26.82	7.99	684	7.54	96.7
7/22/2010	11:00	27.44	8.06	684	7.99	103.6
7/22/2010	12:00	27.72	8.12	685	8.47	110.4
7/22/2010	13:00	27.98	8.12	685	9.11	119.4
7/22/2010	14:00	28.02	8.12	687	9.5	124.5

Appendix Table X - 4. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Eversole Run @ Concord Rd.						
River Mile:	2.2			Local Substrate:	Sand, gravel	
Storet:	300965			Local Velocity (ft/s):	0.3	
Flow Regime:	Low			Local Depth (ft):	0.3	
Local Rainfall:	None					
Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	11:00	22.02	7.8	727	8.43	98.9
7/20/2010	12:00	22.52	7.95	718	9.35	110.7
7/20/2010	13:00	22.97	8.02	716	9.21	110
7/20/2010	14:00	23.6	8.07	716	9.65	116.7
7/20/2010	15:00	23.76	8.07	716	9.69	117.5
7/20/2010	16:00	23.84	8.06	717	9.39	114
7/20/2010	17:00	23.74	8.01	720	8.98	108.8
7/20/2010	18:00	23.95	7.99	721	8.97	109.1
7/20/2010	19:00	23.55	7.91	726	7.59	91.7
7/20/2010	20:00	23.29	7.84	729	6.68	80.3
7/20/2010	21:00	23.11	7.78	732	5.99	71.7
7/20/2010	22:00	22.94	7.74	735	5.63	67.2
7/20/2010	23:00	22.8	7.72	736	5.52	65.7
7/21/2010	0:00	22.69	7.71	737	5.52	65.6
7/21/2010	1:00	22.57	7.7	738	5.51	65.4
7/21/2010	2:00	22.42	7.71	739	5.56	65.8
7/21/2010	3:00	22.23	7.7	739	5.57	65.6
7/21/2010	4:00	22.03	7.7	739	5.63	66
7/21/2010	5:00	21.95	7.7	740	5.67	66.4
7/21/2010	6:00	21.88	7.7	740	5.68	66.5
7/21/2010	7:00	21.83	7.69	741	5.75	67.2
7/21/2010	8:00	21.8	7.71	741	6.12	71.5
7/21/2010	9:00	21.85	7.73	740	6.7	78.4
7/21/2010	10:00	22.06	7.77	738	7.79	91.5
7/21/2010	11:00	22.34	7.81	737	8.39	99.1
7/21/2010	12:00	22.59	7.83	737	8.69	103.1
7/21/2010	13:00	22.86	7.85	737	8.9	106.1
7/21/2010	14:00	23.39	7.87	737	9.14	110
7/21/2010	15:00	24.24	7.88	738	9.77	119.5
7/21/2010	16:00	25.27	7.91	739	10.21	127.4
7/21/2010	17:00	25.55	7.86	742	9.71	121.8
7/21/2010	18:00	24.97	7.81	745	8.86	109.9
7/21/2010	19:00	24.24	7.73	750	7.61	93.2
7/21/2010	20:00	23.6	7.67	755	6.24	75.5
7/21/2010	21:00	23.17	7.61	760	5.27	63.2
7/21/2010	22:00	22.82	7.56	763	4.6	54.8
7/21/2010	23:00	22.56	7.53	766	4.25	50.4
7/22/2010	0:00	22.3	7.51	768	4.13	48.7
7/22/2010	1:00	22.07	7.5	771	4.06	47.7
7/22/2010	2:00	21.77	7.48	772	4.01	46.9
7/22/2010	3:00	21.5	7.47	773	4	46.5
7/22/2010	4:00	21.23	7.46	775	3.95	45.6
7/22/2010	5:00	20.99	7.45	775	3.97	45.7
7/22/2010	6:00	20.75	7.45	776	4.03	46.1
7/22/2010	7:00	20.56	7.44	776	4.09	46.7
7/22/2010	8:00	20.5	7.45	776	4.33	49.3
7/22/2010	9:00	20.6	7.47	775	4.8	54.7
7/22/2010	10:00	20.72	7.48	772	5.23	59.9
7/22/2010	11:00	21	7.52	769	6.16	70.9
7/22/2010	12:00	21.34	7.56	762	7.38	85.5

Appendix Table X - 5. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Eversole Run NW of Shawnee Hills, downstream Cook Rd.

River Mile:	1.3	Local Substrate:	Sand, rocks
Storet:	203160	Local Velocity (ft/s):	0.15
Flow Regime:	Low	Local Depth (ft):	0.6
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	10:00	23.07	7.67	683	7.37	88.2
7/20/2010	11:00	23.52	7.77	681	8.98	108.4
7/20/2010	12:00	23.9	7.82	679	9.62	116.9
7/20/2010	13:00	25.24	7.94	671	10.82	134.9
7/20/2010	14:00	25.43	8.01	669	10.98	137.4
7/20/2010	15:00	25.86	8.05	664	11.05	139.3
7/20/2010	16:00	25.99	8.02	667	11	139
7/20/2010	17:00	26.04	8.08	658	11.07	140
7/20/2010	18:00	26.03	8.05	669	11.16	141.2
7/20/2010	19:00	25.86	8.03	657	10.25	129.1
7/20/2010	20:00	25.56	7.97	659	9.65	120.9
7/20/2010	21:00	25.19	7.89	667	8.86	110.3
7/20/2010	22:00	24.81	7.82	672	8.14	100.6
7/20/2010	23:00	24.51	7.75	678	7.4	91
7/21/2010	0:00	24.29	7.69	683	6.7	82
7/21/2010	1:00	24.07	7.65	685	6.21	75.8
7/21/2010	2:00	23.82	7.63	685	6	72.9
7/21/2010	3:00	23.55	7.61	687	5.88	71
7/21/2010	4:00	23.3	7.6	688	5.84	70.2
7/21/2010	5:00	23.17	7.58	690	5.72	68.6
7/21/2010	6:00	23.09	7.58	695	5.57	66.7
7/21/2010	7:00	23.05	7.57	690	5.66	67.8
7/21/2010	8:00	23	7.56	702	5.93	70.9
7/21/2010	9:00	23.05	7.57	697	6.34	75.8
7/21/2010	10:00	23.21	7.6	695	6.7	80.4
7/21/2010	11:00	23.49	7.66	705	7.65	92.3
7/21/2010	12:00	24.23	7.78	687	9.1	111.3
7/21/2010	13:00	24.73	7.83	687	9.73	120.1
7/21/2010	14:00	25.39	7.93	680	10.2	127.5
7/21/2010	15:00	25.96	7.92	690	10.43	131.8
7/21/2010	16:00	26.4	7.89	687	10.61	135
7/21/2010	17:00	27.15	7.88	694	10.72	138.3
7/21/2010	18:00	27.13	7.99	683	10.51	135.5
7/21/2010	19:00	26.86	7.96	684	10.32	132.5
7/21/2010	20:00	26.34	7.91	685	9.55	121.4
7/21/2010	21:00	25.74	7.85	688	8.65	108.8
7/21/2010	22:00	25.18	7.79	694	8	99.6
7/21/2010	23:00	24.71	7.71	701	7.31	90.3
7/22/2010	0:00	24.31	7.67	703	6.71	82.2
7/22/2010	1:00	23.94	7.64	706	6.34	77.2
7/22/2010	2:00	23.6	7.61	710	6.04	73.1
7/22/2010	3:00	23.29	7.59	710	5.89	70.8
7/22/2010	4:00	22.97	7.56	714	5.75	68.7
7/22/2010	5:00	22.68	7.54	716	5.68	67.5
7/22/2010	6:00	22.42	7.54	716	5.67	67
7/22/2010	7:00	22.19	7.53	719	5.71	67.2
7/22/2010	8:00	22.08	7.51	724	5.73	67.3
7/22/2010	9:00	22.24	7.52	724	6.08	71.6
7/22/2010	10:00	22.42	7.53	723	6.62	78.2
7/22/2010	11:00	22.92	7.51	721	7.01	83.7
7/22/2010	12:00	23.86	7.54	722	8.14	98.9

Appendix Table X - 6. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

North Fork Indian Run @ Highland Croy Rd.

River Mile:	5.2	Local Substrate:	Rock, silt
Storet:	300963	Local Velocity (ft/s):	0.1
Flow Regime:	Low	Local Depth (ft):	0.3
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	11:00	24.06	7.63	1080	4.96	60.6
7/20/2010	12:00	24.53	7.71	1070	6.17	75.9
7/20/2010	13:00	25.89	7.85	1044	8.07	101.9
7/20/2010	14:00	26.1	7.89	1011	8.28	104.9
7/20/2010	15:00	25.85	7.87	891	7.56	95.4
7/20/2010	16:00	26.28	8.11	711	8.93	113.5
7/20/2010	17:00	26.23	8.19	689	9.37	118.9
7/20/2010	18:00	26.38	8.26	758	9.74	124
7/20/2010	19:00	26.42	8.24	828	9.13	116.3
7/20/2010	20:00	26.36	8.18	874	8.05	102.5
7/20/2010	21:00	26.21	8.1	902	6.93	88
7/20/2010	22:00	26	8.03	912	6.06	76.7
7/20/2010	23:00	25.81	7.98	913	5.41	68.2
7/21/2010	0:00	25.61	7.93	911	4.8	60.3
7/21/2010	1:00	25.27	7.87	907	4.28	53.4
7/21/2010	2:00	25.02	7.82	903	3.76	46.8
7/21/2010	3:00	24.77	7.77	897	3.31	40.9
7/21/2010	4:00	24.51	7.72	893	2.89	35.5
7/21/2010	5:00	24.42	7.68	889	2.47	30.3
7/21/2010	6:00	24.28	7.64	886	2.13	26.1
7/21/2010	7:00	24.18	7.62	882	1.9	23.3
7/21/2010	8:00	24.13	7.66	878	2.45	30
7/21/2010	9:00	24.45	7.73	873	3.97	48.8
7/21/2010	10:00	24.89	7.79	870	4.83	59.9
7/21/2010	11:00	25.22	7.85	864	5.83	72.7
7/21/2010	12:00	25.2	7.81	861	5.11	63.7
7/21/2010	13:00	26.06	7.9	854	7.09	89.7
7/21/2010	14:00	28.09	8.09	842	9.81	128.9
7/21/2010	15:00	28.92	8.15	834	10.64	141.7
7/21/2010	16:00	29.31	8.14	824	10.67	143.1
7/21/2010	17:00	29.38	8.18	815	11.1	149
7/21/2010	18:00	28.57	8.09	810	9.59	127
7/21/2010	19:00	27.48	7.93	811	7.33	95.2
7/21/2010	20:00	26.61	7.76	812	4.9	62.6
7/21/2010	21:00	26.25	7.66	812	3.64	46.3
7/21/2010	22:00	25.86	7.54	811	2.24	28.2
7/21/2010	23:00	25.46	7.5	811	1.76	22
7/22/2010	0:00	25.07	7.47	810	1.42	17.6
7/22/2010	1:00	24.67	7.45	809	1.22	15
7/22/2010	2:00	24.23	7.44	809	1.05	12.9
7/22/2010	3:00	23.83	7.43	809	1	12.1
7/22/2010	4:00	23.46	7.42	807	0.94	11.4
7/22/2010	5:00	23.15	7.41	804	0.83	10
7/22/2010	6:00	22.83	7.4	801	0.81	9.6
7/22/2010	7:00	22.57	7.39	797	0.73	8.7
7/22/2010	8:00	22.58	7.4	795	0.95	11.3
7/22/2010	9:00	23.01	7.42	792	1.81	21.6
7/22/2010	10:00	23.75	7.47	787	3.23	39.2
7/22/2010	11:00	24.74	7.58	781	5.76	71.1
7/22/2010	12:00	26.6	7.84	771	9.69	123.8
7/22/2010	13:00	28.18	8	763	11.95	157.1

Appendix Table X - 7. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

North Fork Indian Run @ Coffman Rd.						
River Mile:	1.8	Local Substrate:	Gravel			
Storet:	300964	Local Velocity (ft/s):	0.6			
Flow Regime:	Low	Local Depth (ft):	0.45			
Local Rainfall:	None					
Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	11:00	24.96	7.85	874	5.8	72
7/20/2010	12:00	25.1	7.87	871	6.1	75.9
7/20/2010	13:00	25.63	7.91	870	6.58	82.6
7/20/2010	14:00	25.77	7.93	868	6.89	86.7
7/20/2010	15:00	25.57	7.91	867	6.67	83.7
7/20/2010	16:00	25.7	7.94	866	6.91	86.9
7/20/2010	17:00	25.65	7.94	867	6.89	86.6
7/20/2010	18:00	25.6	7.94	869	6.91	86.8
7/20/2010	19:00	25.53	7.93	872	6.79	85.1
7/20/2010	20:00	25.38	7.9	873	6.6	82.6
7/20/2010	21:00	25.3	7.9	872	6.49	81.1
7/20/2010	22:00	25.18	7.89	872	6.49	80.8
7/20/2010	23:00	25.1	7.89	873	6.45	80.3
7/21/2010	0:00	25.03	7.88	873	6.36	79
7/21/2010	1:00	24.92	7.87	874	6.24	77.4
7/21/2010	2:00	24.81	7.86	875	6.06	74.9
7/21/2010	3:00	24.71	7.84	876	5.82	71.9
7/21/2010	4:00	24.63	7.83	874	5.6	69
7/21/2010	5:00	24.57	7.81	875	5.35	65.9
7/21/2010	6:00	24.51	7.79	878	5.15	63.4
7/21/2010	7:00	24.46	7.78	880	5.03	61.8
7/21/2010	8:00	24.44	7.78	881	5.04	62
7/21/2010	9:00	24.56	7.81	882	5.3	65.3
7/21/2010	10:00	24.61	7.83	883	5.51	67.9
7/21/2010	11:00	24.64	7.84	884	5.63	69.4
7/21/2010	12:00	24.74	7.85	884	5.74	71
7/21/2010	13:00	25.27	7.9	884	6.44	80.3
7/21/2010	14:00	25.76	7.93	884	6.72	84.6
7/21/2010	15:00	26.18	7.95	884	7.01	88.9
7/21/2010	16:00	26.44	7.97	884	7.14	91
7/21/2010	17:00	26.41	7.96	884	6.94	88.5
7/21/2010	18:00	26.18	7.94	884	6.59	83.6
7/21/2010	19:00	26.07	7.94	885	6.47	81.9
7/21/2010	20:00	25.96	7.92	885	6.23	78.7
7/21/2010	21:00	25.81	7.9	885	6.03	76
7/21/2010	22:00	25.65	7.88	886	5.94	74.6
7/21/2010	23:00	25.49	7.88	889	5.94	74.4
7/22/2010	0:00	25.31	7.87	889	5.89	73.6
7/22/2010	1:00	25.13	7.86	891	5.81	72.3
7/22/2010	2:00	24.92	7.84	894	5.68	70.4
7/22/2010	3:00	24.74	7.82	896	5.52	68.2
7/22/2010	4:00	24.56	7.8	898	5.39	66.3
7/22/2010	5:00	24.4	7.78	899	5.23	64.2
7/22/2010	6:00	24.25	7.76	901	5.05	61.8
7/22/2010	7:00	24.11	7.75	901	4.95	60.5
7/22/2010	8:00	24.11	7.75	902	4.94	60.4
7/22/2010	9:00	24.31	7.77	903	5.1	62.5
7/22/2010	10:00	24.61	7.8	901	5.41	66.7
7/22/2010	11:00	25.13	7.84	903	5.9	73.4
7/22/2010	12:00	25.5	7.86	902	6.15	77.1
7/22/2010	13:00	26.01	7.91	898	6.72	85

Appendix Table X - 8. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

South Fork Indian Run @ Rec. Center Drive						
River Mile:	1.3	Local Substrate:	Gravel			
Storet:	300966	Local Velocity (ft/s):	0.3			
Flow Regime:	Low	Local Depth (ft):	0.9			
Local Rainfall:	None					
Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	12:00	24.61	8.01	850	10.53	129.8
7/20/2010	13:00	25.32	8.13	848	11.27	140.7
7/20/2010	14:00	25.83	8.26	850	12.26	154.5
7/20/2010	15:00	25.91	8.27	858	11.76	148.5
7/20/2010	16:00	26.13	8.33	862	12.09	153.3
7/20/2010	17:00	25.86	8.27	865	10.98	138.5
7/20/2010	18:00	25.79	8.27	871	10.7	134.8
7/20/2010	19:00	25.65	8.18	877	9.59	120.6
7/20/2010	20:00	25.25	7.93	885	7.49	93.4
7/20/2010	21:00	25	7.75	925	6.33	78.6
7/20/2010	22:00	24.72	7.64	945	5.75	71.1
7/20/2010	23:00	24.52	7.6	925	5.61	69.1
7/21/2010	0:00	24.33	7.57	925	5.44	66.7
7/21/2010	1:00	24.08	7.55	929	5.5	67.2
7/21/2010	2:00	23.85	7.53	936	5.5	66.9
7/21/2010	3:00	23.63	7.52	940	5.52	66.8
7/21/2010	4:00	23.43	7.51	947	5.54	66.8
7/21/2010	5:00	23.37	7.51	951	5.55	66.9
7/21/2010	6:00	23.33	7.51	955	5.55	66.8
7/21/2010	7:00	23.28	7.5	956	5.58	67.1
7/21/2010	8:00	23.28	7.56	961	6.56	78.9
7/21/2010	9:00	23.77	7.78	953	8.74	106.1
7/21/2010	10:00	23.83	7.88	998	9.51	115.5
7/21/2010	11:00	23.78	7.84	1038	8.68	105.5
7/21/2010	12:00	24.12	7.91	999	9.56	116.8
7/21/2010	13:00	24.71	8.05	998	11.04	136.4
7/21/2010	14:00	25.72	8.19	985	12.11	152.4
7/21/2010	15:00	26.39	8.25	985	12.29	156.5
7/21/2010	16:00	26.83	8.27	982	12.09	155.3
7/21/2010	17:00	26.93	8.26	979	11.65	149.9
7/21/2010	18:00	26.64	8.22	980	10.7	136.9
7/21/2010	19:00	26.21	8.12	984	9.57	121.5
7/21/2010	20:00	25.75	7.95	992	7.93	99.8
7/21/2010	21:00	25.21	7.75	995	6.35	79.2
7/21/2010	22:00	24.82	7.61	996	5.42	67.1
7/21/2010	23:00	24.57	7.53	996	5.14	63.3
7/22/2010	0:00	24.38	7.52	1002	5.14	63.1
7/22/2010	1:00	24.17	7.51	1006	5.17	63.2
7/22/2010	2:00	23.9	7.48	1015	5.1	62.1
7/22/2010	3:00	23.57	7.46	1025	5.16	62.4
7/22/2010	4:00	23.28	7.46	1028	5.17	62.2
7/22/2010	5:00	23.02	7.46	1040	5.24	62.8
7/22/2010	6:00	22.83	7.46	1038	5.32	63.5
7/22/2010	7:00	22.62	7.47	1041	5.47	65
7/22/2010	8:00	22.61	7.51	1040	6.07	72.1
7/22/2010	9:00	23.15	7.64	1039	7.8	93.6
7/22/2010	10:00	23.99	7.73	1042	9.76	119
7/22/2010	11:00	24.89	7.9	1038	11.01	136.5
7/22/2010	12:00	25.56	8.01	1028	11.81	148.2
7/22/2010	13:00	26.23	8.11	1024	12.72	161.6
7/22/2010	14:00	26.96	8.29	1021	12.32	158.6

Appendix Table X - 9. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Hayden Run @ Hayden Run Rd. Adj. Dexter Falls Rd.						
River Mile:	0.83	Local Substrate:	Gravel			
Storet:	300802	Local Velocity (ft/s):	2.0			
Flow Regime:	Low	Local Depth (ft):	0.6			
Local Rainfall:	None					
Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	13:00	24.42	8.18	787	8.56	105.1
7/20/2010	14:00	25.12	8.24	795	8.78	109.2
7/20/2010	15:00	25.48	8.25	801	8.62	108
7/20/2010	16:00	25.71	8.25	806	8.55	107.5
7/20/2010	17:00	25.74	8.24	809	8.32	104.7
7/20/2010	18:00	25.66	8.23	814	8.06	101.3
7/20/2010	19:00	25.58	8.2	821	7.8	97.9
7/20/2010	20:00	25.4	8.16	827	7.47	93.5
7/20/2010	21:00	25.18	8.12	831	7.26	90.4
7/20/2010	22:00	24.97	8.08	833	7.12	88.4
7/20/2010	23:00	24.81	8.06	836	7.08	87.6
7/21/2010	0:00	24.65	8.05	839	7.07	87.2
7/21/2010	1:00	24.41	8.05	843	7.08	86.9
7/21/2010	2:00	24.2	8.05	847	7.11	87
7/21/2010	3:00	23.99	8.04	852	7.14	87
7/21/2010	4:00	23.8	8.04	857	7.16	86.9
7/21/2010	5:00	23.68	8.04	862	7.19	87.1
7/21/2010	6:00	23.61	8.04	868	7.22	87.4
7/21/2010	7:00	23.57	8.04	876	7.25	87.7
7/21/2010	8:00	23.53	8.06	884	7.45	90
7/21/2010	9:00	23.59	8.08	889	7.69	93
7/21/2010	10:00	23.77	8.12	889	8.09	98.2
7/21/2010	11:00	23.9	8.13	886	7.99	97.2
7/21/2010	12:00	24.2	8.17	882	8.27	101.2
7/21/2010	13:00	24.58	8.2	875	8.57	105.5
7/21/2010	14:00	25.28	8.24	867	8.68	108.4
7/21/2010	15:00	25.91	8.26	859	8.72	110.1
7/21/2010	16:00	26.6	8.28	851	8.63	110.4
7/21/2010	17:00	26.83	8.26	847	8.21	105.4
7/21/2010	18:00	26.9	8.24	844	7.84	100.8
7/21/2010	19:00	26.78	8.21	842	7.57	97.1
7/21/2010	20:00	26.44	8.17	842	7.29	92.9
7/21/2010	21:00	26.01	8.13	843	7.1	89.8
7/21/2010	22:00	25.6	8.09	845	6.99	87.8
7/21/2010	23:00	25.24	8.07	849	6.99	87.1
7/22/2010	0:00	24.92	8.06	854	7	86.8
7/22/2010	1:00	24.62	8.05	856	7.02	86.5
7/22/2010	2:00	24.34	8.04	857	7.05	86.5
7/22/2010	3:00	24.06	8.04	855	7.1	86.6
7/22/2010	4:00	23.81	8.03	853	7.14	86.7
7/22/2010	5:00	23.54	8.03	850	7.19	86.8
7/22/2010	6:00	23.29	8.02	848	7.24	87.1
7/22/2010	7:00	23.05	8.02	847	7.33	87.7
7/22/2010	8:00	23	8.03	845	7.52	89.9
7/22/2010	9:00	23.24	8.06	844	7.88	94.7
7/22/2010	10:00	23.43	8.09	844	8.07	97.3
7/22/2010	11:00	23.76	8.12	843	8.16	99
7/22/2010	12:00	24.44	8.18	840	8.51	104.5
7/22/2010	13:00	25.14	8.23	838	8.75	108.9
7/22/2010	14:00	25.92	8.27	837	8.96	113.1
7/22/2010	15:00	26.56	8.29	837	8.94	114.2

Appendix Table X - 10. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Dry Run at Holton Park

River Mile:	1.4	Local Substrate:	Grave, sand
Storet:	V03K04	Local Velocity (ft/s):	0.7 to 0.25
Flow Regime:	Low	Local Depth (ft):	0.8 to 0.5
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	14:00	25.28	8.12	1090	9.15	114.2
7/20/2010	15:00	25.84	8.16	1090	9.32	117.5
7/20/2010	16:00	26.43	8.21	1095	9.51	121.3
7/20/2010	17:00	26.05	8.2	1103	9.26	117.3
7/20/2010	18:00	26.21	8.2	1112	9.03	114.7
7/20/2010	19:00	25.89	8.18	1120	8.57	108.3
7/20/2010	20:00	25.48	8.11	1130	7.57	94.9
7/20/2010	21:00	25.21	8.05	1140	7.16	89.4
7/20/2010	22:00	24.91	8.01	1150	6.94	86.1
7/20/2010	23:00	24.61	7.99	1160	6.91	85.3
7/21/2010	0:00	24.28	7.97	1170	6.94	85.1
7/21/2010	1:00	23.96	7.97	1179	6.99	85.2
7/21/2010	2:00	23.64	7.96	1186	7.02	85.1
7/21/2010	3:00	23.36	7.95	1193	7.06	85.1
7/21/2010	4:00	23.19	7.95	1202	7.1	85.4
7/21/2010	5:00	23.05	7.94	1212	7.11	85.2
7/21/2010	6:00	22.94	7.95	1221	7.14	85.4
7/21/2010	7:00	22.87	7.95	1224	7.23	86.3
7/21/2010	8:00	22.84	7.98	1223	7.79	93
7/21/2010	9:00	22.96	8.03	1223	8.29	99.2
7/21/2010	10:00	23.25	8.08	1221	9.01	108.4
7/21/2010	11:00	23.28	8.07	1222	8.62	103.7
7/21/2010	12:00	23.94	8.15	1218	9.94	121.1
7/21/2010	13:00	24.3	8.18	1217	10.25	125.7
7/21/2010	14:00	25.95	8.23	1217	10.61	134.1
7/21/2010	15:00	26.74	8.24	1218	10.33	132.6
7/21/2010	16:00	26.92	8.25	1216	10.34	133.1
7/21/2010	17:00	27.22	8.27	1214	10.2	132
7/21/2010	18:00	26.94	8.25	1214	9.49	122.2
7/21/2010	19:00	26.42	8.2	1216	8.62	109.9
7/21/2010	20:00	26.13	8.15	1221	7.88	100
7/21/2010	21:00	25.72	8.08	1227	7.11	89.5
7/21/2010	22:00	25.32	8.02	1234	6.72	84
7/21/2010	23:00	25.01	7.99	1239	6.67	82.9
7/22/2010	0:00	24.75	7.97	1245	6.65	82.2
7/22/2010	1:00	24.46	7.96	1252	6.67	82.1
7/22/2010	2:00	24.16	7.94	1260	6.71	82.1
7/22/2010	3:00	23.81	7.93	1268	6.77	82.3
7/22/2010	4:00	23.47	7.93	1276	6.83	82.6
7/22/2010	5:00	23.18	7.93	1285	6.89	82.8
7/22/2010	6:00	22.86	7.92	1289	6.92	82.7
7/22/2010	7:00	22.58	7.92	1293	7.06	83.9
7/22/2010	8:00	22.48	7.96	1292	7.55	89.5
7/22/2010	9:00	22.66	8.02	1289	8.27	98.4
7/22/2010	10:00	23.15	8.08	1285	9.14	109.7
7/22/2010	11:00	23.91	8.14	1279	9.84	119.9

Appendix Table X - 11. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Trabue Run @ McKinley Ave.

River Mile: 0.28	Local Substrate: Gravel
Storret: V03P11	Local Velocity (ft/s): >3 to 0.65
Flow Regime: Low	Local Depth (ft): 1.0
Local Rainfall: None	

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	14:00	24.1	8.07	843	8.38	102.3
7/20/2010	15:00	24.29	8.08	846	8.34	102.1
7/20/2010	16:00	24.28	8.05	850	8.2	100.4
7/20/2010	17:00	24.29	8.07	854	8.13	99.7
7/20/2010	18:00	24.2	8.02	861	7.94	97.2
7/20/2010	19:00	24.17	8.02	867	7.85	96
7/20/2010	20:00	24	7.95	874	7.6	92.6
7/20/2010	21:00	23.82	7.92	880	7.52	91.4
7/20/2010	22:00	23.72	7.88	884	7.46	90.4
7/20/2010	23:00	23.56	7.87	888	7.47	90.3
7/21/2010	0:00	23.5	7.88	890	7.48	90.3
7/21/2010	1:00	23.36	7.85	891	7.46	89.8
7/21/2010	2:00	23.22	7.86	894	7.49	90
7/21/2010	3:00	23.12	7.86	896	7.52	90.2
7/21/2010	4:00	23.02	7.85	897	7.52	90
7/21/2010	5:00	22.96	7.87	900	7.53	90
7/21/2010	6:00	22.88	7.86	899	7.55	90.1
7/21/2010	7:00	22.83	7.86	899	7.59	90.5
7/21/2010	8:00	22.71	7.86	902	7.71	91.7
7/21/2010	9:00	22.77	7.89	903	7.85	93.5
7/21/2010	10:00	22.82	7.92	904	8.14	97.1
7/21/2010	11:00	22.79	7.91	906	7.97	94.9
7/21/2010	12:00	23.02	7.97	907	8.47	101.3
7/21/2010	13:00	23.15	8.01	909	8.55	102.6
7/21/2010	14:00	23.66	8.06	915	8.71	105.5
7/21/2010	15:00	23.73	8.05	924	8.47	102.7
7/21/2010	16:00	24.01	8.07	928	8.46	103.2
7/21/2010	17:00	24.01	8.03	926	8.1	98.7
7/21/2010	18:00	23.92	7.99	926	7.9	96.2
7/21/2010	19:00	23.84	7.94	928	7.73	94
7/21/2010	20:00	23.69	7.9	930	7.52	91.1
7/21/2010	21:00	23.43	7.86	935	7.34	88.5
7/21/2010	22:00	23.25	7.82	940	7.27	87.3
7/21/2010	23:00	23	7.8	944	7.28	87.1
7/22/2010	0:00	22.78	7.8	949	7.31	87.1
7/22/2010	1:00	22.57	7.78	952	7.3	86.6
7/22/2010	2:00	22.41	7.78	954	7.3	86.3
7/22/2010	3:00	22.23	7.77	956	7.33	86.5
7/22/2010	4:00	22.05	7.77	959	7.37	86.6
7/22/2010	5:00	22.01	7.78	962	7.39	86.7
7/22/2010	6:00	21.8	7.77	965	7.43	86.9
7/22/2010	7:00	21.65	7.78	966	7.47	87.1
7/22/2010	8:00	21.58	7.79	967	7.62	88.7
7/22/2010	9:00	21.64	7.81	967	7.84	91.4
7/22/2010	10:00	21.81	7.84	966	8.07	94.3
7/22/2010	11:00	22.1	7.87	964	8.32	97.9

Appendix Table X - 12. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Scioto Big Run @ Big Run Rd.

River Mile: 4.4
 Storet: 300968
 Flow Regime: Low
 Local Rainfall: None

Local Substrate: Coarse gravel, sand
 Local Velocity (ft/s): 0.6 to 0.4
 Local Depth (ft): 2 to 1.5

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	15:00	24.72	8.11	669	7.92	97.7
7/20/2010	16:00	24.98	8.13	673	7.96	98.7
7/20/2010	17:00	25.05	8.14	679	7.9	98.1
7/20/2010	18:00	25.09	8.14	682	7.82	97.2
7/20/2010	19:00	25.05	8.13	684	7.69	95.6
7/20/2010	20:00	24.92	8.11	688	7.56	93.7
7/20/2010	21:00	24.81	8.09	691	7.36	91.1
7/20/2010	22:00	24.69	8.07	694	7.29	89.9
7/20/2010	23:00	24.57	8.05	694	7.24	89.1
7/21/2010	0:00	24.43	8.05	695	7.23	88.8
7/21/2010	1:00	24.29	8.05	699	7.22	88.4
7/21/2010	2:00	24.14	8.04	703	7.22	88.2
7/21/2010	3:00	23.98	8.03	706	7.21	87.8
7/21/2010	4:00	23.84	8.03	708	7.23	87.8
7/21/2010	5:00	23.72	8.03	711	7.24	87.8
7/21/2010	6:00	23.62	8.03	722	7.25	87.7
7/21/2010	7:00	23.55	8.03	722	7.28	88
7/21/2010	8:00	23.49	8.03	722	7.34	88.5
7/21/2010	9:00	23.49	8.04	724	7.45	89.9
7/21/2010	10:00	23.54	8.05	727	7.57	91.4
7/21/2010	11:00	23.55	8.06	730	7.61	92
7/21/2010	12:00	23.62	8.07	732	7.72	93.4
7/21/2010	13:00	23.89	8.08	733	7.87	95.7
7/21/2010	14:00	24.35	8.11	734	8.1	99.4
7/21/2010	15:00	24.83	8.13	736	8.14	100.7
7/21/2010	16:00	25.27	8.14	741	8.16	101.8
7/21/2010	17:00	25.52	8.15	747	8.1	101.4
7/21/2010	18:00	25.62	8.14	749	7.94	99.7
7/21/2010	19:00	25.51	8.13	751	7.76	97.3
7/21/2010	20:00	25.35	8.11	753	7.58	94.7
7/21/2010	21:00	25.17	8.1	756	7.43	92.5
7/21/2010	22:00	24.97	8.09	758	7.3	90.6
7/21/2010	23:00	24.79	8.07	761	7.23	89.4
7/22/2010	0:00	24.61	8.06	763	7.16	88.3
7/22/2010	1:00	24.43	8.04	765	7.09	87.1
7/22/2010	2:00	24.25	8.04	767	7.1	86.9
7/22/2010	3:00	24.06	8.03	768	7.16	87.3
7/22/2010	4:00	23.86	8.03	772	7.16	86.9
7/22/2010	5:00	23.66	8.02	772	7.21	87.3
7/22/2010	6:00	23.46	8.02	773	7.23	87.2
7/22/2010	7:00	23.26	8.02	777	7.24	87
7/22/2010	8:00	23.13	8.01	780	7.3	87.5
7/22/2010	9:00	23.14	8.02	782	7.38	88.4
7/22/2010	10:00	23.26	8.03	784	7.52	90.4
7/22/2010	11:00	23.56	8.05	786	7.71	93.2
7/22/2010	12:00	23.98	8.07	787	7.98	97.2
7/22/2010	13:00	24.38	8.11	789	8.23	101
7/22/2010	14:00	24.74	8.13	790	8.4	103.7
7/22/2010	15:00	25.08	8.15	790	8.44	104.9

Appendix Table X - 13. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Scioto Big Run @ Hardy Parkway

River Mile:	2.9	Local Substrate:	Gravel, sand
Storet:	V07K11	Local Velocity (ft/s):	0.5 to 0.2
Flow Regime:	Low	Local Depth (ft):	1.5 to 1.3
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	16:00	25.46	8.16	686	8.52	106.6
7/20/2010	17:00	25.4	8.18	689	8.42	105.2
7/20/2010	18:00	25.45	8.17	692	8.28	103.6
7/20/2010	19:00	25.32	8.16	698	8.07	100.7
7/20/2010	20:00	25.18	8.14	703	7.77	96.8
7/20/2010	21:00	25.09	8.12	707	7.56	94
7/20/2010	22:00	24.98	8.1	710	7.45	92.5
7/20/2010	23:00	24.85	8.09	714	7.39	91.4
7/21/2010	0:00	24.69	8.09	718	7.38	91.1
7/21/2010	1:00	24.53	8.08	722	7.38	90.8
7/21/2010	2:00	24.35	8.08	726	7.39	90.7
7/21/2010	3:00	24.18	8.07	731	7.38	90.2
7/21/2010	4:00	24.08	8.07	734	7.4	90.3
7/21/2010	5:00	23.96	8.07	737	7.43	90.4
7/21/2010	6:00	23.87	8.07	739	7.45	90.6
7/21/2010	7:00	23.78	8.07	741	7.48	90.8
7/21/2010	8:00	23.73	8.08	744	7.62	92.3
7/21/2010	9:00	23.76	8.09	747	7.79	94.5
7/21/2010	10:00	23.86	8.11	752	8.02	97.4
7/21/2010	11:00	23.85	8.12	755	7.95	96.5
7/21/2010	12:00	23.96	8.14	755	8.26	100.5
7/21/2010	13:00	24.35	8.18	756	8.63	105.8
7/21/2010	14:00	25	8.21	759	8.92	110.8
7/21/2010	15:00	25.68	8.23	760	9.07	114.1
7/21/2010	16:00	26.23	8.25	761	9.18	116.5
7/21/2010	17:00	26.25	8.25	761	9.03	114.6
7/21/2010	18:00	26.06	8.23	762	8.74	110.6
7/21/2010	19:00	25.77	8.2	763	8.34	105
7/21/2010	20:00	25.56	8.18	764	8.04	100.8
7/21/2010	21:00	25.4	8.15	764	7.71	96.4
7/21/2010	22:00	25.23	8.13	765	7.46	93
7/21/2010	23:00	25.08	8.1	766	7.36	91.5
7/22/2010	0:00	24.93	8.09	767	7.26	90
7/22/2010	1:00	24.8	8.08	768	7.26	89.7
7/22/2010	2:00	24.64	8.07	771	7.24	89.3
7/22/2010	3:00	24.45	8.06	773	7.24	89
7/22/2010	4:00	24.26	8.05	774	7.26	88.9
7/22/2010	5:00	24.04	8.04	776	7.29	88.9
7/22/2010	6:00	23.8	8.04	778	7.33	89
7/22/2010	7:00	23.57	8.04	780	7.39	89.3
7/22/2010	8:00	23.45	8.04	782	7.49	90.3
7/22/2010	9:00	23.47	8.06	784	7.68	92.7
7/22/2010	10:00	23.63	8.08	785	8	96.8
7/22/2010	11:00	23.9	8.11	788	8.28	100.8
7/22/2010	12:00	24.38	8.15	790	8.79	107.9
7/22/2010	13:00	24.92	8.2	793	9.37	116.2
7/22/2010	14:00	25.19	8.23	795	9.63	120
7/22/2010	15:00	25.48	8.25	796	9.65	120.9
7/22/2010	16:00	25.79	8.25	797	9.52	119.8

Appendix Table X - 14. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Kian Run near mouth

River Mile:	0.1	Local Substrate:	Muck
Storet:	300967	Local Velocity (ft/s):	0.1
Flow Regime:	Normal	Local Depth (ft):	1.5
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	13:00	20.6	7.48	861	7.2	82.3
7/20/2010	14:00	21.11	7.53	858	7.15	82.5
7/20/2010	15:00	21.74	7.55	870	7.09	82.8
7/20/2010	16:00	21.98	7.55	881	7.11	83.4
7/20/2010	17:00	21.89	7.57	884	7.18	84
7/20/2010	18:00	21.69	7.57	915	7.25	84.6
7/20/2010	19:00	21.62	7.55	877	7.22	84.1
7/20/2010	20:00	21.69	7.52	839	7.05	82.2
7/20/2010	21:00	21.76	7.47	845	6.72	78.5
7/20/2010	22:00	21.8	7.43	871	6.35	74.2
7/20/2010	23:00	21.66	7.41	893	6.2	72.3
7/21/2010	0:00	21.51	7.42	921	6.19	71.9
7/21/2010	1:00	21.23	7.42	961	6.19	71.5
7/21/2010	2:00	20.76	7.41	983	6.31	72.3
7/21/2010	3:00	20.43	7.43	956	6.51	74
7/21/2010	4:00	20.22	7.46	939	6.71	76.1
7/21/2010	5:00	20.04	7.5	927	6.94	78.4
7/21/2010	6:00	19.96	7.52	925	7.05	79.5
7/21/2010	7:00	19.85	7.52	949	7.12	80.2
7/21/2010	8:00	19.63	7.53	914	7.32	82
7/21/2010	9:00	19.67	7.52	874	7.43	83.3
7/21/2010	10:00	19.94	7.5	840	7.44	83.9
7/21/2010	11:00	19.96	7.5	827	7.56	85.2
7/21/2010	12:00	19.91	7.51	822	7.66	86.3
7/21/2010	13:00	20.18	7.52	814	7.62	86.3
7/21/2010	14:00	20.61	7.5	795	7.56	86.3
7/21/2010	15:00	21.23	7.5	785	7.45	86.1
7/21/2010	16:00	21.49	7.51	787	7.47	86.8
7/21/2010	17:00	21.77	7.54	845	7.36	86
7/21/2010	18:00	21.7	7.55	872	7.29	85
7/21/2010	19:00	21.73	7.5	919	6.82	79.7
7/21/2010	20:00	21.71	7.47	928	6.71	78.3
7/21/2010	21:00	21.63	7.47	892	6.71	78.1
7/21/2010	22:00	21.46	7.46	860	6.68	77.6
7/21/2010	23:00	21.27	7.45	857	6.77	78.4
7/22/2010	0:00	21.03	7.46	891	6.84	78.7
7/22/2010	1:00	20.74	7.46	875	6.84	78.3
7/22/2010	2:00	20.42	7.46	858	6.95	79
7/22/2010	3:00	20.15	7.47	900	7.07	80
7/22/2010	4:00	19.92	7.48	910	7.18	80.9
7/22/2010	5:00	19.8	7.49	878	7.18	80.6
7/22/2010	6:00	19.69	7.5	859	7.19	80.6
7/22/2010	7:00	19.6	7.49	880	7.15	80.1
7/22/2010	8:00	19.58	7.49	902	7.06	79
7/22/2010	9:00	19.57	7.49	885	7.11	79.6
7/22/2010	10:00	19.65	7.5	874	7.16	80.2
7/22/2010	11:00	19.74	7.5	893	7.17	80.5
7/22/2010	12:00	20.03	7.52	930	7.2	81.2
7/22/2010	13:00	20.29	7.51	922	7.2	81.7

Appendix Table X - 15. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Republican Run @ Buckeye Parkway

River Mile: 1.38	Local Substrate: Sand
Storet: 300969	Local Velocity (ft/s): 0.3 to 0.1
Flow Regime: Low	Local Depth (ft): 2
Local Rainfall: None	

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	17:00	25.15	8.1	715	7.84	97.6
7/20/2010	18:00	25.06	8.11	714	7.74	96.1
7/20/2010	19:00	24.95	8.11	717	7.61	94.4
7/20/2010	20:00	24.76	8.09	722	7.33	90.6
7/20/2010	21:00	24.59	8.06	726	7.09	87.3
7/20/2010	22:00	24.45	8.04	732	6.91	84.9
7/20/2010	23:00	24.32	8.01	740	6.78	83.1
7/21/2010	0:00	24.2	7.99	746	6.68	81.7
7/21/2010	1:00	24.09	7.98	754	6.65	81.2
7/21/2010	2:00	23.98	7.97	763	6.67	81.3
7/21/2010	3:00	23.85	7.96	771	6.69	81.3
7/21/2010	4:00	23.79	7.96	766	6.69	81.2
7/21/2010	5:00	23.81	7.96	757	6.75	82
7/21/2010	6:00	23.61	7.96	775	6.67	80.7
7/21/2010	7:00	23.52	7.95	809	6.68	80.7
7/21/2010	8:00	23.48	7.95	876	6.78	81.9
7/21/2010	9:00	23.55	7.97	853	6.94	83.9
7/21/2010	10:00	23.63	7.99	816	7.13	86.3
7/21/2010	11:00	23.65	8.01	816	7.25	87.7
7/21/2010	12:00	23.75	8.01	827	7.31	88.6
7/21/2010	13:00	24.18	8.03	839	7.58	92.7
7/21/2010	14:00	24.75	8.05	865	7.92	97.9
7/21/2010	15:00	25.17	8.08	875	8.02	99.9
7/21/2010	16:00	25.47	8.09	868	8.05	100.9
7/21/2010	17:00	25.71	8.1	874	8.14	102.4
7/21/2010	18:00	25.87	8.11	898	8.15	102.8
7/21/2010	19:00	25.69	8.1	893	7.86	98.8
7/21/2010	20:00	25.49	8.09	883	7.55	94.6
7/21/2010	21:00	25.25	8.06	880	7.08	88.4
7/21/2010	22:00	24.99	8.03	883	6.72	83.4
7/21/2010	23:00	24.71	8	890	6.42	79.3
7/22/2010	0:00	24.48	7.97	893	6.32	77.7
7/22/2010	1:00	24.3	7.96	888	6.24	76.5
7/22/2010	2:00	24.1	7.94	887	6.12	74.7
7/22/2010	3:00	23.92	7.93	886	6.09	74.1
7/22/2010	4:00	23.73	7.91	886	6.06	73.5
7/22/2010	5:00	23.54	7.9	886	6.06	73.2
7/22/2010	6:00	23.35	7.89	888	6.06	73
7/22/2010	7:00	23.17	7.88	890	6.08	72.9
7/22/2010	8:00	23.07	7.88	892	6.14	73.6
7/22/2010	9:00	23.15	7.88	892	6.24	74.9
7/22/2010	10:00	23.32	7.9	893	6.4	77
7/22/2010	11:00	23.76	7.93	895	7.08	85.9
7/22/2010	12:00	24.13	7.98	898	7.65	93.4
7/22/2010	13:00	24.57	8	899	7.97	98.2
7/22/2010	14:00	24.94	8.04	903	8.3	103
7/22/2010	15:00	25.24	8.07	911	8.71	108.7
7/22/2010	16:00	25.52	8.09	924	9.05	113.5
7/22/2010	17:00	25.72	8.09	932	8.86	111.5

Appendix Table X - 16. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Grant Run @ Buckeye Parkway

River Mile:	2.0	Local Substrate:	Gravel
Storet:	300803	Local Velocity (ft/s):	0.1
Flow Regime:	Normal/low	Local Depth (ft):	0.9
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	11:00	23.5	8.01	647	7.75	93.5
7/20/2010	12:00	24.04	8.09	657	8.44	102.8
7/20/2010	13:00	24.76	8.15	664	8.78	108.4
7/20/2010	14:00	24.65	8.16	671	8.57	105.7
7/20/2010	15:00	25.11	8.21	672	8.93	111
7/20/2010	16:00	25.36	8.24	674	8.95	111.8
7/20/2010	17:00	25.52	8.24	675	8.69	108.9
7/20/2010	18:00	25.56	8.23	677	8.32	104.3
7/20/2010	19:00	25.52	8.2	680	7.87	98.6
7/20/2010	20:00	25.39	8.15	685	7.28	91
7/20/2010	21:00	25.25	8.1	689	6.81	84.9
7/20/2010	22:00	25.13	8.05	693	6.46	80.3
7/20/2010	23:00	24.97	8.02	696	6.28	78
7/21/2010	0:00	24.81	8	698	6.13	75.8
7/21/2010	1:00	24.66	7.98	700	5.97	73.6
7/21/2010	2:00	24.5	7.96	702	6.02	74
7/21/2010	3:00	24.31	7.95	705	5.99	73.3
7/21/2010	4:00	24.17	7.94	707	5.98	73
7/21/2010	5:00	24.03	7.93	710	5.98	72.9
7/21/2010	6:00	23.92	7.92	712	5.96	72.4
7/21/2010	7:00	23.82	7.92	715	6.02	73.1
7/21/2010	8:00	23.82	7.93	717	6.29	76.3
7/21/2010	9:00	23.83	7.95	718	6.57	79.8
7/21/2010	10:00	23.95	7.97	719	6.89	83.8
7/21/2010	11:00	23.9	7.99	720	6.95	84.5
7/21/2010	12:00	24	8	720	7.08	86.2
7/21/2010	13:00	24.84	8.06	718	8.1	100.2
7/21/2010	14:00	25.65	8.12	716	8.64	108.5
7/21/2010	15:00	26.06	8.16	717	8.92	112.8
7/21/2010	16:00	25.86	8.16	722	8.63	108.8
7/21/2010	17:00	26.03	8.17	723	8.49	107.4
7/21/2010	18:00	26.18	8.17	724	8.26	104.7
7/21/2010	19:00	26.04	8.15	725	7.95	100.5
7/21/2010	20:00	25.76	8.1	729	7.26	91.4
7/21/2010	21:00	25.47	8.04	731	6.67	83.4
7/21/2010	22:00	25.18	7.99	733	6.21	77.3
7/21/2010	23:00	24.94	7.95	734	5.85	72.5
7/22/2010	0:00	24.73	7.93	734	5.67	70
7/22/2010	1:00	24.55	7.91	735	5.36	66
7/22/2010	2:00	24.38	7.89	735	5.26	64.6
7/22/2010	3:00	24.19	7.88	736	5.32	65
7/22/2010	4:00	23.95	7.87	736	5.23	63.7
7/22/2010	5:00	23.71	7.86	737	5.27	63.9
7/22/2010	6:00	23.49	7.85	737	5.27	63.6
7/22/2010	7:00	23.26	7.84	738	5.29	63.6
7/22/2010	8:00	23.21	7.84	738	5.29	63.5
7/22/2010	9:00	23.4	7.84	739	5.66	68.2
7/22/2010	10:00	23.79	7.91	739	6.48	78.6
7/22/2010	11:00	24.48	7.97	739	7.27	89.3

Appendix Table X - 17. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Grant Run near mouth

River Mile:	0.2	Local Substrate:	Sand, muck
Storet:	300970	Local Velocity (ft/s):	0.5
Flow Regime:	Normal	Local Depth (ft):	1.0
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	15:00	25.24	8.09	609	8.88	110.7
7/20/2010	16:00	25.69	8.15	613	9.08	114.1
7/20/2010	17:00	25.91	8.18	615	9.01	113.6
7/20/2010	18:00	26.08	8.18	617	8.81	111.5
7/20/2010	19:00	26.23	8.19	619	8.61	109.2
7/20/2010	20:00	26.21	8.17	622	8.24	104.5
7/20/2010	21:00	26.09	8.15	625	7.95	100.6
7/20/2010	22:00	25.95	8.12	628	7.69	97.1
7/20/2010	23:00	25.77	8.09	631	7.51	94.5
7/21/2010	0:00	25.57	8.06	634	7.32	91.7
7/21/2010	1:00	25.32	8.03	638	7.14	89.1
7/21/2010	2:00	25.04	8.01	641	7.02	87.2
7/21/2010	3:00	24.79	7.98	645	6.95	86
7/21/2010	4:00	24.58	7.97	648	6.92	85.2
7/21/2010	5:00	24.36	7.96	651	6.9	84.6
7/21/2010	6:00	24.15	7.94	654	6.9	84.3
7/21/2010	7:00	23.95	7.94	657	6.9	84
7/21/2010	8:00	23.83	7.93	659	6.97	84.7
7/21/2010	9:00	23.78	7.94	662	7.06	85.7
7/21/2010	10:00	23.78	7.94	664	7.21	87.4
7/21/2010	11:00	23.71	7.93	667	7.15	86.6
7/21/2010	12:00	23.8	7.96	669	7.52	91.2
7/21/2010	13:00	24.14	7.99	671	7.83	95.7
7/21/2010	14:00	24.69	8.01	673	8.03	99.1
7/21/2010	15:00	25.21	8.04	675	8.27	103
7/21/2010	16:00	26.01	8.07	676	8.6	108.7
7/21/2010	17:00	26	8.1	677	8.62	108.9
7/21/2010	18:00	26.13	8.11	677	8.57	108.6
7/21/2010	19:00	26.19	8.12	677	8.51	108
7/21/2010	20:00	26.14	8.12	677	8.31	105.3
7/21/2010	21:00	26.05	8.11	677	8.06	101.9
7/21/2010	22:00	25.88	8.09	677	7.84	98.8
7/21/2010	23:00	25.7	8.09	680	7.68	96.5
7/22/2010	0:00	25.51	8.07	679	7.48	93.6
7/22/2010	1:00	25.35	8.06	680	7.35	91.8
7/22/2010	2:00	25.17	8.05	681	7.23	90
7/22/2010	3:00	24.97	8.03	686	7.13	88.4
7/22/2010	4:00	24.72	8.02	682	7.06	87.1
7/22/2010	5:00	24.48	8.01	684	6.98	85.8
7/22/2010	6:00	24.26	7.99	684	6.89	84.3
7/22/2010	7:00	24.02	7.99	687	6.88	83.8
7/22/2010	8:00	23.84	7.99	686	6.94	84.3
7/22/2010	9:00	23.82	7.98	686	7	84.9
7/22/2010	10:00	23.95	7.98	686	6.79	82.6
7/22/2010	11:00	24	7.96	686	6.61	80.5
7/22/2010	12:00	24.14	7.96	687	6.72	82.1
7/22/2010	13:00	24.35	7.96	688	6.73	82.5
7/22/2010	14:00	24.58	7.93	689	6.54	80.5
7/22/2010	15:00	24.74	7.94	689	6.68	82.5

Appendix Table X - 18. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Plum Creek @ State Route 665						
River Mile:	0.72	Local Substrate:	Gravel			
Storet:	V07P23	Local Velocity (ft/s):	0.1			
Flow Regime:	Low	Local Depth (ft):	1.0			
Local Rainfall:	None					
Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	10:00	17.89	7.33	850	4.57	49.4
7/20/2010	11:00	17.93	7.4	850	4.73	51.2
7/20/2010	12:00	18.13	7.41	852	4.61	50.1
7/20/2010	13:00	18.41	7.43	853	5.03	55
7/20/2010	14:00	18.62	7.44	852	5.25	57.7
7/20/2010	15:00	19.08	7.45	851	5.54	61.4
7/20/2010	16:00	19.27	7.46	852	5.78	64.3
7/20/2010	17:00	19.46	7.48	851	5.67	63.2
7/20/2010	18:00	19.57	7.48	852	6.18	69.1
7/20/2010	19:00	19.48	7.47	854	5.85	65.3
7/20/2010	20:00	19.37	7.47	855	5.81	64.8
7/20/2010	21:00	19.22	7.47	856	5.63	62.5
7/20/2010	22:00	18.96	7.45	855	5.18	57.2
7/20/2010	23:00	18.77	7.42	855	4.77	52.5
7/21/2010	0:00	18.58	7.42	859	4.68	51.4
7/21/2010	1:00	18.4	7.42	858	4.56	49.8
7/21/2010	2:00	18.22	7.41	859	4.26	46.4
7/21/2010	3:00	18.06	7.42	861	4.49	48.7
7/21/2010	4:00	17.94	7.42	860	4.5	48.7
7/21/2010	5:00	17.87	7.43	861	4.5	48.6
7/21/2010	6:00	17.79	7.4	862	4.07	43.9
7/21/2010	7:00	17.73	7.41	860	4.33	46.6
7/21/2010	8:00	17.68	7.42	861	4.54	48.8
7/21/2010	9:00	17.69	7.43	861	4.64	49.9
7/21/2010	10:00	17.77	7.44	861	4.86	52.4
7/21/2010	11:00	17.85	7.45	861	5.03	54.3
7/21/2010	12:00	17.96	7.46	861	5.2	56.3
7/21/2010	13:00	18.11	7.45	861	4.83	52.4
7/21/2010	14:00	18.35	7.45	861	5.16	56.4
7/21/2010	15:00	19.08	7.47	857	5.53	61.3
7/21/2010	16:00	19.02	7.47	862	5.56	61.5
7/21/2010	17:00	19.24	7.48	862	5.61	62.4
7/21/2010	18:00	19.39	7.48	862	5.81	64.8
7/21/2010	19:00	19.57	7.49	861	5.73	64.1
7/21/2010	20:00	19.55	7.49	862	5.72	64
7/21/2010	21:00	19.33	7.48	863	5.54	61.6
7/21/2010	22:00	19.06	7.47	863	5.22	57.8
7/21/2010	23:00	18.8	7.45	860	5.03	55.4
7/22/2010	0:00	18.54	7.45	861	4.9	53.7
7/22/2010	1:00	18.3	7.44	863	4.79	52.2
7/22/2010	2:00	18.15	7.43	864	4.5	48.9
7/22/2010	3:00	17.98	7.42	870	4.38	47.5
7/22/2010	4:00	17.8	7.41	870	4.32	46.6
7/22/2010	5:00	17.66	7.44	866	4.52	48.6
7/22/2010	6:00	17.5	7.44	866	4.57	49
7/22/2010	7:00	17.36	7.44	864	4.6	49.2
7/22/2010	8:00	17.27	7.44	865	4.74	50.6
7/22/2010	9:00	17.23	7.44	864	4.8	51.2
7/22/2010	10:00	17.27	7.45	864	4.93	52.6
7/22/2010	11:00	17.45	7.45	864	4.58	49

Appendix Table X - 19. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Peters Run @ State Route 762

River Mile:	1.75	Local Substrate:	Silt
Storet:	300972	Local Velocity (ft/s):	0.1
Flow Regime:	Normal/low	Local Depth (ft):	0.7
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	12:00	22.36	7.75	648	6.75	79.6
7/20/2010	13:00	22.56	7.77	648	7.1	84.1
7/20/2010	14:00	22.65	7.77	649	7.25	86.1
7/20/2010	15:00	23.05	7.8	649	7.53	90.1
7/20/2010	16:00	23.27	7.82	650	7.72	92.8
7/20/2010	17:00	23.38	7.82	651	7.72	92.9
7/20/2010	18:00	23.35	7.79	656	7.42	89.3
7/20/2010	19:00	23.27	7.78	659	7.07	84.9
7/20/2010	20:00	23.07	7.74	663	6.61	79.2
7/20/2010	21:00	22.94	7.74	664	6.33	75.6
7/20/2010	22:00	22.82	7.73	668	6.09	72.5
7/20/2010	23:00	22.72	7.73	670	5.91	70.3
7/21/2010	0:00	22.6	7.73	671	5.78	68.6
7/21/2010	1:00	22.46	7.74	672	5.76	68.2
7/21/2010	2:00	22.34	7.75	673	5.71	67.4
7/21/2010	3:00	22.13	7.74	673	5.64	66.3
7/21/2010	4:00	22.04	7.75	673	5.67	66.5
7/21/2010	5:00	21.91	7.74	673	5.61	65.6
7/21/2010	6:00	21.82	7.74	673	5.57	65
7/21/2010	7:00	21.77	7.73	672	5.5	64.2
7/21/2010	8:00	21.75	7.73	671	5.54	64.7
7/21/2010	9:00	21.7	7.72	671	5.56	64.8
7/21/2010	10:00	21.81	7.72	670	5.66	66.1
7/21/2010	11:00	21.78	7.72	669	5.72	66.7
7/21/2010	12:00	21.94	7.75	668	5.87	68.7
7/21/2010	13:00	22.29	7.77	668	6.33	74.7
7/21/2010	14:00	22.89	7.83	664	6.97	83.1
7/21/2010	15:00	23.22	7.81	664	7.3	87.6
7/21/2010	16:00	23.41	7.81	661	7.36	88.7
7/21/2010	17:00	23.55	7.82	663	7.46	90.1
7/21/2010	18:00	23.54	7.81	661	7.23	87.3
7/21/2010	19:00	23.44	7.79	664	6.91	83.3
7/21/2010	20:00	23.21	7.75	670	6.5	78.1
7/21/2010	21:00	23.09	7.75	672	6.24	74.7
7/21/2010	22:00	22.78	7.73	676	5.92	70.5
7/21/2010	23:00	22.54	7.72	677	5.72	67.8
7/22/2010	0:00	22.4	7.74	679	5.7	67.4
7/22/2010	1:00	22.16	7.73	683	5.59	65.8
7/22/2010	2:00	21.95	7.72	681	5.52	64.7
7/22/2010	3:00	21.84	7.73	683	5.54	64.8
7/22/2010	4:00	21.6	7.73	685	5.5	64
7/22/2010	5:00	21.37	7.74	684	5.55	64.3
7/22/2010	6:00	21.11	7.73	684	5.53	63.7
7/22/2010	7:00	20.88	7.72	684	5.5	63.1
7/22/2010	8:00	20.81	7.72	684	5.5	63
7/22/2010	9:00	20.96	7.74	683	5.59	64.2
7/22/2010	10:00	21.21	7.75	683	5.83	67.4
7/22/2010	11:00	21.58	7.76	683	6.06	70.5
7/22/2010	12:00	21.9	7.77	679	6.33	74.1

Appendix Table X - 20. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Grove Run @ Gibson Rd.

River Mile:	1.58	Local Substrate:	Sand, gravel, boulders
Storet:	300973	Local Velocity (ft/s):	0.3
Flow Regime:	Normal, low	Local Depth (ft):	0.4
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	12:00	24.12	8.01	666	7.43	90.7
7/20/2010	13:00	24.23	8.02	659	7.63	93.4
7/20/2010	14:00	24.38	8.02	654	7.63	93.6
7/20/2010	15:00	24.69	8.04	648	8.1	99.9
7/20/2010	16:00	25.03	8.07	641	8.45	104.9
7/20/2010	17:00	25.1	8.07	635	8.24	102.5
7/20/2010	18:00	25.3	8.09	629	8.39	104.7
7/20/2010	19:00	25.27	8.07	624	7.89	98.4
7/20/2010	20:00	25.2	8.04	622	7.42	92.4
7/20/2010	21:00	25.09	8.02	620	6.96	86.5
7/20/2010	22:00	24.98	8	618	6.67	82.7
7/20/2010	23:00	24.87	7.99	616	6.44	79.7
7/21/2010	0:00	24.73	7.98	615	6.27	77.4
7/21/2010	1:00	24.57	7.96	614	5.95	73.2
7/21/2010	2:00	24.4	7.95	612	5.98	73.3
7/21/2010	3:00	24.22	7.94	611	5.87	71.8
7/21/2010	4:00	24.08	7.92	611	5.68	69.3
7/21/2010	5:00	23.99	7.9	609	5.57	67.9
7/21/2010	6:00	23.91	7.89	609	5.44	66.2
7/21/2010	7:00	23.82	7.87	607	5.34	64.8
7/21/2010	8:00	23.79	7.86	607	5.32	64.6
7/21/2010	9:00	23.78	7.86	606	5.39	65.4
7/21/2010	10:00	23.81	7.85	604	5.42	65.7
7/21/2010	11:00	23.81	7.86	602	5.59	67.9
7/21/2010	12:00	23.84	7.85	601	5.5	66.8
7/21/2010	13:00	24.22	7.88	598	6.34	77.5
7/21/2010	14:00	24.69	7.92	596	6.84	84.4
7/21/2010	15:00	25.05	7.93	594	7.13	88.5
7/21/2010	16:00	25.53	7.96	591	7.57	94.8
7/21/2010	17:00	25.8	7.97	590	7.66	96.4
7/21/2010	18:00	25.73	7.97	588	7.55	94.9
7/21/2010	19:00	25.58	7.94	588	7.03	88.1
7/21/2010	20:00	25.45	7.93	588	6.62	82.8
7/21/2010	21:00	25.32	7.89	588	6.16	76.8
7/21/2010	22:00	25.12	7.9	587	6.05	75.2
7/21/2010	23:00	24.9	7.88	588	5.86	72.6
7/22/2010	0:00	24.69	7.87	588	5.78	71.3
7/22/2010	1:00	24.53	7.86	588	5.59	68.7
7/22/2010	2:00	24.4	7.84	589	5.37	65.8
7/22/2010	3:00	24.28	7.83	589	5.16	63.2
7/22/2010	4:00	24.08	7.83	589	5.23	63.7
7/22/2010	5:00	23.85	7.82	589	5.15	62.6
7/22/2010	6:00	23.59	7.8	589	4.99	60.3
7/22/2010	7:00	23.36	7.78	590	4.85	58.4
7/22/2010	8:00	23.27	7.78	591	4.88	58.6
7/22/2010	9:00	23.31	7.78	592	4.87	58.5
7/22/2010	10:00	23.48	7.77	592	4.97	60
7/22/2010	11:00	23.97	7.81	591	5.58	67.9
7/22/2010	12:00	24.4	7.82	590	5.84	71.7
7/22/2010	13:00	24.64	7.85	589	6.46	79.6

Appendix Table X - 21. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Van Meter Run @ State Route 104						
River Mile:	1.0	Local Substrate:	Silt, gravel	Local Velocity (ft/s):	0.7 to 0.5	
Storet:	300974	Local Depth (ft):	0.4 to 0.3			
Flow Regime:	Normal, low					
Local Rainfall:	None					
Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	13:00	22.8	8.11	650	8.87	105.7
7/20/2010	14:00	23.39	8.19	647	9.23	111.2
7/20/2010	15:00	24.24	8.23	644	9.46	115.8
7/20/2010	16:00	24.72	8.24	642	9.46	116.8
7/20/2010	17:00	25.07	8.25	639	9.14	113.5
7/20/2010	18:00	25.46	8.24	637	8.81	110.3
7/20/2010	19:00	25.63	8.22	636	8.38	105.2
7/20/2010	20:00	25.56	8.19	637	7.8	97.8
7/20/2010	21:00	25.36	8.15	639	7.37	92.1
7/20/2010	22:00	25.12	8.12	641	7.12	88.6
7/20/2010	23:00	24.82	8.09	645	6.94	85.8
7/21/2010	0:00	24.48	8.08	649	6.8	83.5
7/21/2010	1:00	24.15	8.07	653	6.71	82
7/21/2010	2:00	23.81	8.06	657	6.71	81.4
7/21/2010	3:00	23.49	8.05	661	6.71	81
7/21/2010	4:00	23.25	8.04	664	6.71	80.6
7/21/2010	5:00	23.03	8.04	667	6.76	80.8
7/21/2010	6:00	22.83	8.03	669	6.79	80.9
7/21/2010	7:00	22.67	8.04	671	6.83	81.1
7/21/2010	8:00	22.59	8.04	673	7.01	83.2
7/21/2010	9:00	22.56	8.05	674	7.22	85.6
7/21/2010	10:00	22.55	8.07	676	7.38	87.4
7/21/2010	11:00	22.53	8.07	676	7.47	88.5
7/21/2010	12:00	22.62	8.09	677	7.76	92.1
7/21/2010	13:00	23.03	8.13	677	8.44	100.9
7/21/2010	14:00	23.68	8.17	676	8.97	108.6
7/21/2010	15:00	24.09	8.19	674	9.09	110.9
7/21/2010	16:00	24.5	8.2	672	9.03	111
7/21/2010	17:00	24.94	8.21	668	9.11	112.9
7/21/2010	18:00	25.2	8.22	664	8.85	110.2
7/21/2010	19:00	25.31	8.2	662	8.3	103.6
7/21/2010	20:00	25.38	8.18	660	7.81	97.5
7/21/2010	21:00	25.34	8.14	659	7.27	90.8
7/21/2010	22:00	25.15	8.12	659	6.94	86.4
7/21/2010	23:00	24.89	8.08	659	6.78	83.9
7/22/2010	0:00	24.56	8.07	661	6.7	82.4
7/22/2010	1:00	24.29	8.06	663	6.6	80.9
7/22/2010	2:00	24.02	8.04	665	6.56	80
7/22/2010	3:00	23.74	8.03	668	6.54	79.2
7/22/2010	4:00	23.44	8.02	670	6.55	78.9
7/22/2010	5:00	23.11	8.02	672	6.57	78.7
7/22/2010	6:00	22.81	8.01	675	6.63	78.9
7/22/2010	7:00	22.58	8	678	6.67	79.1
7/22/2010	8:00	22.44	8.01	680	6.84	80.9
7/22/2010	9:00	22.41	8.03	682	7.16	84.7
7/22/2010	10:00	22.56	8.06	684	7.59	90
7/22/2010	11:00	22.85	8.08	685	7.93	94.5
7/22/2010	12:00	23.26	8.1	685	8.28	99.5
7/22/2010	13:00	23.73	8.13	684	8.83	107
7/22/2010	14:00	24.08	8.17	681	9.35	114.1

Appendix Table X - 22. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Dry Run @ Belles Station Road

River Mile: 3.70	Local Substrate: Silt, sand, gravel
Storet: 300975	Local Velocity (ft/s): 1.0 to 0.4
Flow Regime: Normal/low	Local Depth (ft): 0.6 to 0.3
Local Rainfall: None	

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	15:00	24.05	8.08	565	8.46	103.1
7/20/2010	16:00	24.4	8.1	567	8.41	103.1
7/20/2010	17:00	24.44	8.09	569	8.11	99.5
7/20/2010	18:00	24.67	8.1	570	8.04	99
7/20/2010	19:00	24.77	8.1	571	7.97	98.4
7/20/2010	20:00	24.76	8.09	572	7.85	96.9
7/20/2010	21:00	24.69	8.08	574	7.8	96.1
7/20/2010	22:00	24.61	8.06	577	7.72	95
7/20/2010	23:00	24.42	8.05	579	7.72	94.7
7/21/2010	0:00	24.28	8.05	581	7.74	94.6
7/21/2010	1:00	24.13	8.04	583	7.75	94.6
7/21/2010	2:00	23.93	8.03	583	7.8	94.8
7/21/2010	3:00	23.72	8.03	582	7.86	95.1
7/21/2010	4:00	23.53	8.04	583	7.91	95.4
7/21/2010	5:00	23.36	8.03	584	7.94	95.5
7/21/2010	6:00	23.22	8.04	585	7.96	95.5
7/21/2010	7:00	23.12	8.04	585	8	95.8
7/21/2010	8:00	23.08	8.04	586	8.04	96.2
7/21/2010	9:00	23.06	8.05	586	8.08	96.6
7/21/2010	10:00	23.07	8.04	586	8.08	96.7
7/21/2010	11:00	23.08	8.05	586	8.09	96.8
7/21/2010	12:00	23.16	8.05	587	8.15	97.7
7/21/2010	13:00	23.5	8.07	587	8.34	100.5
7/21/2010	14:00	23.93	8.08	588	8.41	102.2
7/21/2010	15:00	24.53	8.11	589	8.45	103.9
7/21/2010	16:00	24.91	8.11	589	8.37	103.5
7/21/2010	17:00	24.96	8.12	590	8.25	102.2
7/21/2010	18:00	25.05	8.13	590	8.15	101.2
7/21/2010	19:00	25.07	8.13	590	8.03	99.6
7/21/2010	20:00	25.11	8.11	591	7.87	97.8
7/21/2010	21:00	25.05	8.08	593	7.67	95.2
7/21/2010	22:00	24.87	8.08	593	7.68	95
7/21/2010	23:00	24.64	8.06	594	7.67	94.5
7/22/2010	0:00	24.39	8.04	595	7.66	93.9
7/22/2010	1:00	24.22	8.05	595	7.71	94.2
7/22/2010	2:00	24.06	8.03	596	7.72	94.1
7/22/2010	3:00	23.85	8.02	597	7.75	94.1
7/22/2010	4:00	23.62	8.01	597	7.75	93.7
7/22/2010	5:00	23.37	8	598	7.81	93.9
7/22/2010	6:00	23.12	8	598	7.87	94.1
7/22/2010	7:00	22.95	8	598	7.89	94.2
7/22/2010	8:00	22.92	8.01	599	7.97	95.1
7/22/2010	9:00	22.99	8.02	599	8.08	96.5
7/22/2010	10:00	23.16	8.03	600	8.14	97.5
7/22/2010	11:00	23.55	8.05	601	8.31	100.3
7/22/2010	12:00	24	8.06	601	8.36	101.8
7/22/2010	13:00	24.35	8.07	601	8.46	103.6
7/22/2010	14:00	24.67	8.09	601	8.54	105.2
7/22/2010	15:00	25.01	8.11	601	8.52	105.7

Appendix Table X - 23. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Dry Run @ Island Rd.

River Mile:	0.5	Local Substrate:	Silt, sand, gravel
Storet:	300976	Local Velocity (ft/s):	1.0 to 0.5
Flow Regime:	Normal	Local Depth (ft):	0.7 to 0.4
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	16:00	23.23	7.81	637	8.03	96.4
7/20/2010	17:00	22.91	7.78	640	7.75	92.5
7/20/2010	18:00	22.9	7.79	643	7.65	91.3
7/20/2010	19:00	22.68	7.78	646	7.57	89.9
7/20/2010	20:00	22.4	7.76	650	7.37	87.1
7/20/2010	21:00	22.17	7.73	652	7.16	84.2
7/20/2010	22:00	22.02	7.72	654	7.06	82.8
7/20/2010	23:00	21.88	7.72	656	7.01	81.9
7/21/2010	0:00	21.66	7.72	658	7.01	81.6
7/21/2010	1:00	21.43	7.72	660	7	81.1
7/21/2010	2:00	21.2	7.72	663	7.06	81.4
7/21/2010	3:00	20.98	7.72	666	7.11	81.7
7/21/2010	4:00	20.82	7.72	669	7.16	82
7/21/2010	5:00	20.69	7.72	670	7.18	82
7/21/2010	6:00	20.55	7.72	670	7.26	82.7
7/21/2010	7:00	20.46	7.71	670	7.27	82.6
7/21/2010	8:00	20.44	7.73	671	7.38	83.9
7/21/2010	9:00	20.46	7.74	672	7.49	85.2
7/21/2010	10:00	20.5	7.74	672	7.54	85.8
7/21/2010	11:00	20.46	7.74	671	7.6	86.4
7/21/2010	12:00	20.63	7.75	672	7.74	88.3
7/21/2010	13:00	21.02	7.77	672	7.95	91.4
7/21/2010	14:00	21.95	7.8	674	8.18	95.8
7/21/2010	15:00	22.71	7.82	675	8.25	98
7/21/2010	16:00	23.35	7.84	675	8.2	98.6
7/21/2010	17:00	23.34	7.84	676	8.12	97.6
7/21/2010	18:00	23.24	7.84	676	8	96
7/21/2010	19:00	22.95	7.82	677	7.76	92.6
7/21/2010	20:00	22.59	7.8	677	7.57	89.8
7/21/2010	21:00	22.23	7.78	678	7.39	87
7/21/2010	22:00	21.91	7.76	679	7.21	84.3
7/21/2010	23:00	21.64	7.74	679	7.1	82.6
7/22/2010	0:00	21.41	7.73	680	7.12	82.5
7/22/2010	1:00	21.23	7.72	681	7.09	81.9
7/22/2010	2:00	21.04	7.72	683	7.11	81.7
7/22/2010	3:00	20.8	7.71	684	7.15	81.9
7/22/2010	4:00	20.57	7.71	686	7.19	81.9
7/22/2010	5:00	20.3	7.69	687	7.22	81.9
7/22/2010	6:00	20.12	7.69	689	7.27	82.1
7/22/2010	7:00	20	7.69	691	7.3	82.3
7/22/2010	8:00	19.96	7.71	692	7.44	83.8
7/22/2010	9:00	20.03	7.73	692	7.67	86.5
7/22/2010	10:00	20.19	7.74	693	7.83	88.5
7/22/2010	11:00	20.68	7.76	694	7.96	90.9
7/22/2010	12:00	21.38	7.79	695	8.17	94.6
7/22/2010	13:00	22.07	7.81	695	8.35	98
7/22/2010	14:00	22.46	7.83	695	8.42	99.6
7/22/2010	15:00	22.77	7.84	695	8.38	99.7

Appendix Table X - 24. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Grippy Run @ Walnut Creek Pike, New Hope Church
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River Mile:	1.1	Local Substrate:	Silt, sand, boulder
Storet:	300977	Local Velocity (ft/s):	1.5 to 0.5
Flow Regime:	Normal/low	Local Depth (ft):	0.6 to 0.3
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	15:00	22.48	7.96	644	7.87	93
7/20/2010	16:00	22.77	8.04	646	7.92	94.1
7/20/2010	17:00	22.87	8.06	663	7.78	92.7
7/20/2010	18:00	23.05	8.06	654	7.71	92.2
7/20/2010	19:00	23.14	8.06	653	7.65	91.6
7/20/2010	20:00	23.1	8.05	654	7.58	90.7
7/20/2010	21:00	23.06	8.05	656	7.52	90
7/20/2010	22:00	23.02	8.05	657	7.5	89.6
7/20/2010	23:00	22.93	8.06	658	7.47	89.2
7/21/2010	0:00	22.82	8.06	658	7.46	88.9
7/21/2010	1:00	22.7	8.06	659	7.45	88.5
7/21/2010	2:00	22.57	8.05	660	7.44	88.2
7/21/2010	3:00	22.45	8.04	662	7.4	87.5
7/21/2010	4:00	22.34	8.04	663	7.43	87.6
7/21/2010	5:00	22.22	8.05	663	7.52	88.5
7/21/2010	6:00	22.11	8.05	664	7.56	88.8
7/21/2010	7:00	22	8.06	665	7.6	89.1
7/21/2010	8:00	21.92	8.06	666	7.65	89.5
7/21/2010	9:00	21.85	8.06	667	7.69	89.8
7/21/2010	10:00	21.81	8.07	668	7.71	90
7/21/2010	11:00	21.76	8.07	669	7.72	90.1
7/21/2010	12:00	21.79	8.07	670	7.76	90.6
7/21/2010	13:00	22.01	8.08	671	7.78	91.2
7/21/2010	14:00	22.29	8.09	672	7.86	92.7
7/21/2010	15:00	22.56	8.1	672	7.88	93.4
7/21/2010	16:00	22.88	8.11	673	7.85	93.5
7/21/2010	17:00	23.11	8.11	674	7.79	93.2
7/21/2010	18:00	23.3	8.12	674	7.71	92.7
7/21/2010	19:00	23.44	8.12	675	7.63	91.9
7/21/2010	20:00	23.46	8.12	677	7.54	90.9
7/21/2010	21:00	23.38	8.1	684	7.47	89.9
7/21/2010	22:00	23.23	8.09	690	7.42	89.1
7/21/2010	23:00	23.08	8.07	690	7.4	88.5
7/22/2010	0:00	22.92	8.07	686	7.39	88.1
7/22/2010	1:00	22.79	8.07	682	7.38	87.8
7/22/2010	2:00	22.68	8.06	679	7.38	87.7
7/22/2010	3:00	22.52	8.06	678	7.37	87.2
7/22/2010	4:00	22.37	8.04	678	7.32	86.4
7/22/2010	5:00	22.21	8.04	678	7.39	87
7/22/2010	6:00	22.05	8.04	678	7.44	87.3
7/22/2010	7:00	21.93	8.05	678	7.48	87.6
7/22/2010	8:00	21.87	8.06	678	7.52	87.9
7/22/2010	9:00	21.84	8.06	679	7.59	88.7
7/22/2010	10:00	21.91	8.07	680	7.64	89.3
7/22/2010	11:00	22.03	8.07	682	7.66	89.9
7/22/2010	12:00	22.3	8.07	684	7.69	90.7
7/22/2010	13:00	22.59	8.08	684	7.75	91.9
7/22/2010	14:00	22.79	8.09	684	7.77	92.5
7/22/2010	15:00	23.09	8.1	684	7.79	93.2
7/22/2010	16:00	23.46	8.12	683	7.76	93.5

Appendix Table X - 25. Hourly data recorded with datasonde continuous monitors in the Middle Scioto River study area during 2010.

Scioto River dst. Jackson Pike WWTP, Upst Kian Run

River Mile:	126.5	Local Substrate:	Not tested
Storet:	V07W08	Local Velocity (ft/s):	0.4
Flow Regime:	Normal	Local Depth (ft):	3.0 (sonde floated)
Local Rainfall:	None		

Date	Time	Temp C	pH (SU)	Specific Conductivity (mS/cm)	Dissolved Oxygen (mg/l)	Dissolved Oxygen (% sat)
7/20/2010	12:00	26.54	8.07	605	8.54	108.9
7/20/2010	13:00	27.06	8.19	595	9.3	119.7
7/20/2010	14:00	26.96	8.17	608	9.66	124.2
7/20/2010	15:00	27.31	8.24	597	9.89	127.9
7/20/2010	16:00	27.34	8.25	596	10.07	130.3
7/20/2010	17:00	27.12	8.23	607	10.3	132.7
7/20/2010	18:00	27.07	8.26	605	10.44	134.4
7/20/2010	19:00	26.69	8.18	623	10.43	133.4
7/20/2010	20:00	26.52	8.12	614	9.95	126.8
7/20/2010	21:00	26.32	8.08	621	9.76	124
7/20/2010	22:00	26.14	8	622	9.29	117.6
7/20/2010	23:00	26.07	7.98	620	9.04	114.3
7/21/2010	0:00	25.92	7.93	626	8.58	108.2
7/21/2010	1:00	25.81	7.92	623	8.14	102.4
7/21/2010	2:00	25.73	7.89	630	7.94	99.8
7/21/2010	3:00	25.51	7.85	643	7.71	96.5
7/21/2010	4:00	25.47	7.83	649	7.49	93.7
7/21/2010	5:00	25.47	7.8	651	7.32	91.5
7/21/2010	6:00	25.38	7.8	650	7.2	89.9
7/21/2010	7:00	25.31	7.78	663	7.05	87.9
7/21/2010	8:00	25.37	7.79	659	7.16	89.5
7/21/2010	9:00	25.48	7.82	655	7.4	92.6
7/21/2010	10:00	25.68	7.89	654	7.85	98.6
7/21/2010	11:00	25.57	7.89	662	7.99	100.1
7/21/2010	12:00	26.19	8.04	627	8.53	108.1
7/21/2010	13:00	26.15	8.05	666	9.31	117.9
7/21/2010	14:00	26.87	8.25	620	9.94	127.6
7/21/2010	15:00	26.88	8.15	682	10.48	134.6
7/21/2010	16:00	27.44	8.24	678	11.02	142.8
7/21/2010	17:00	27.48	8.28	671	11.11	144.1
7/21/2010	18:00	27.32	8.25	672	10.89	140.8
7/21/2010	19:00	26.92	8.19	673	10.43	133.9
7/21/2010	20:00	26.63	8.14	674	10.09	129
7/21/2010	21:00	26.21	8.07	681	9.62	122
7/21/2010	22:00	25.99	8.05	669	9.61	121.3
7/21/2010	23:00	26.05	8.01	653	9.25	117
7/22/2010	0:00	25.94	7.97	649	9.1	114.9
7/22/2010	1:00	25.86	7.9	654	8.75	110.2
7/22/2010	2:00	25.85	7.92	648	8.42	106.1
7/22/2010	3:00	25.73	7.89	652	8.13	102.2
7/22/2010	4:00	25.77	7.92	638	7.83	98.5
7/22/2010	5:00	25.72	7.89	637	7.47	93.9
7/22/2010	6:00	25.68	7.89	637	7.17	90
7/22/2010	7:00	25.69	7.88	631	6.94	87.2
7/22/2010	8:00	25.68	7.87	637	6.89	86.6
7/22/2010	9:00	25.98	7.93	630	7.22	91.2
7/22/2010	10:00	26.35	8.04	624	8	101.7
7/22/2010	11:00	26.9	8.16	621	8.86	113.7
7/22/2010	12:00	27.36	8.31	615	9.78	126.6

Appendix E – Qualitative Habitat Evaluation Index (QHEI) attributes, middle Scioto River watershed, 2009-2010.

WWH Attributes

MWH Attributes

Key
QHEI
Components

- No Channelization/Recreated
- Bank/Channel/Gravel Substrates
- Silt Free Substrates
- Good/Excellent Substrates
- Moderate/Fair Sinuosity
- Extensive/Moderate Cover
- Fast Current/Eddies
- Low/Nominal Overall Embeddedness
- Max Depth > 40 cm
- Low/Nominal Rifle Embeddedness

- High Influence*
- Channelized or No Recovery
 - Silt/Clay Substrates
 - No Sinuosity
 - Sparse/No Cover
 - Max Depth < 40 cm (WD, HW)

- Moderate Influence*
- Total H.L. MWH Attributes
 - Recovering Channel
 - Heavy/Moderate Silt Cover
 - Sand Substrates (Boat)
 - Human Substrate Origin
 - Fair/Poor Development
 - Low Sinuosity
 - Only 1-2 Cover Types
 - Intermittent and Poor Pools
 - No Fast Current
 - High/Med. Overall Embeddedness
 - High/Med. Rifle Embeddedness
 - No Rifle

River Mile	QHEI	Gradient (ft/mile)	WWH Attributes	Total WWH Attributes	High Influence	Moderate Influence	Total M.L. MWH Attributes	(MWH HL+1)/(WWH+1) Ratio	(MWH ML+1)/(MWH+1) Ratio
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(02-001) Scioto River

Year: 2010

127.5	74.5	1.85	■ ■ ■ ■ ■ ■ ■ ■	4	■ ■ ■ ■ ■ ■ ■ ■	1	■ ■ ■ ■ ■ ■ ■ ■	7	0.40	1.80
126.4	83.5	1.85	■ ■ ■ ■ ■ ■ ■ ■	6	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	4	0.14	0.71
109.2	88.3	0.98	■ ■ ■ ■ ■ ■ ■ ■	9	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.10	0.30
102.0	76.8	1.43	■ ■ ■ ■ ■ ■ ■ ■	6	■ ■ ■ ■ ■ ■ ■ ■	1	■ ■ ■ ■ ■ ■ ■ ■	5	0.29	1.00

Year: 2009

174.2	49.0	0.74	■ ■ ■ ■ ■ ■ ■ ■	3	■ ■ ■ ■ ■ ■ ■ ■	2	■ ■ ■ ■ ■ ■ ■ ■	6	0.75	2.25
169.5	75.5	2.62	■ ■ ■ ■ ■ ■ ■ ■	7	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	6	0.13	0.88
163.8	75.0	3.60	■ ■ ■ ■ ■ ■ ■ ■	7	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.13	0.38
157.1	74.0	3.00	■ ■ ■ ■ ■ ■ ■ ■	7	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.13	0.38
145.5	82.0	4.33	■ ■ ■ ■ ■ ■ ■ ■	9	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	1	0.10	0.20
136.2	85.5	1.50	■ ■ ■ ■ ■ ■ ■ ■	9	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	0	0.10	0.10
131.8	45.0	0.10	■ ■ ■ ■ ■ ■ ■ ■	2	■ ■ ■ ■ ■ ■ ■ ■	2	■ ■ ■ ■ ■ ■ ■ ■	5	1.00	2.67
129.1	83.0	1.85	■ ■ ■ ■ ■ ■ ■ ■	8	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.11	0.33
126.0	84.5	1.85	■ ■ ■ ■ ■ ■ ■ ■	9	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	3	0.10	0.40
119.9	84.0	1.40	■ ■ ■ ■ ■ ■ ■ ■	8	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.11	0.33
117.6	73.0	1.40	■ ■ ■ ■ ■ ■ ■ ■	7	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.13	0.38
116.3	79.5	1.40	■ ■ ■ ■ ■ ■ ■ ■	9	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.10	0.30
109.4	79.0	0.98	■ ■ ■ ■ ■ ■ ■ ■	8	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	1	0.11	0.22
105.3	79.5	0.98	■ ■ ■ ■ ■ ■ ■ ■	7	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.13	0.38
100.0	83.5	1.43	■ ■ ■ ■ ■ ■ ■ ■	8	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	1	0.11	0.22

(02-076) Griffy Run

Year: 2010

1.1	58.0	12.50	■ ■ ■ ■ ■ ■ ■ ■	4	■ ■ ■ ■ ■ ■ ■ ■	3	■ ■ ■ ■ ■ ■ ■ ■	4	0.80	1.60
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(02-077) Dry Run

Year: 2010

3.7	54.0	13.33	■ ■ ■ ■ ■ ■ ■ ■	5	■ ■ ■ ■ ■ ■ ■ ■	1	■ ■ ■ ■ ■ ■ ■ ■	3	0.33	0.83
0.5	57.5	13.33	■ ■ ■ ■ ■ ■ ■ ■	4	■ ■ ■ ■ ■ ■ ■ ■	2	■ ■ ■ ■ ■ ■ ■ ■	4	0.60	1.40

(02-088) Van Meter Run

Year: 2010

1.0	66.5	17.86	■ ■ ■ ■ ■ ■ ■ ■	8	■ ■ ■ ■ ■ ■ ■ ■	0	■ ■ ■ ■ ■ ■ ■ ■	2	0.11	0.33
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(02-089) Grove Run

Year: 2010

1.6	60.5	38.46	■ ■ ■ ■ ■ ■ ■ ■	5	■ ■ ■ ■ ■ ■ ■ ■	1	■ ■ ■ ■ ■ ■ ■ ■	3	0.33	0.83
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WWH Attributes

MWH Attributes

Key
QHEI
Components

River Mile	QHEI	Gradient (ft/mile)	WWH Attributes								MWH Attributes										Total M.L. MWH Attributes	(MWH HL+1)/(WWH+1) Ratio	(MWH HL+1)/(MWH+1) Ratio									
			No Channelization/Recreated	Bank/Cobble/Gravel Substrates	Silt Free Substrates	Good/Excellent Substrates	Moderate/Poor Sinuosity	Extensive/Moderate Cover	Fast Current/Eddies	Low/Natural Overall Embeddedness	Max Depth > 40 cm	Low/Natural Rifle Embeddedness	Total WWH Attributes	Channelized or No Recovery	Silt/Clay Substrates	No Sinuosity	Sparse No Cover	Max Depth < 40 cm (WD, HW)	Total H.L. MWH Attributes	Recovering Channel				Heavy/Moderate Silt Cover	Sand Substrates (Boat)	Human Substrate Origin	Fair/Poor Development	Low Sinuosity	Only 1-2 Cover Types	Intermittent and Poor Pools	No Fast Current	High/Med. Overall Embeddedness
(02-090) Plum Run																																
Year: 2010																																
0.7	66.5	55.56	■	■	■	■	■	■	■	6	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	5	0.14	0.86
(02-091) Grant Run																																
Year: 2010																																
2.0	77.0	30.30	■	■	■	■	■	■	■	8	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	4	0.11	0.56
0.2	72.0	24.00	■	■	■	■	■	■	■	8	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	4	0.11	0.56
(02-092) Scioto Big Run																																
Year: 2010																																
4.5	55.8	12.20	■	■	■	■	■	■	■	7	■	■	■	■	■	■	1	■	■	■	■	■	■	■	■	■	■	■	■	1	0.25	0.38
2.9	67.8	25.64	■	■	■	■	■	■	■	8	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	2	0.11	0.33
(02-095) Dry Run																																
Year: 2010																																
1.4	73.0	33.33	■	■	■	■	■	■	■	8	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	2	0.11	0.33
(02-097) Hayden Run																																
Year: 2010																																
0.9	68.8	30.30	■	■	■	■	■	■	■	8	■	■	■	■	■	■	1	■	■	■	■	■	■	■	■	■	■	■	■	1	0.22	0.33
(02-098) North Fork Indian Run																																
Year: 2010																																
5.2	54.3	10.10	■	■	■	■	■	■	■	5	■	■	■	■	■	■	2	■	■	■	■	■	■	■	■	■	■	■	■	2	0.50	0.83
1.8	63.8	12.35	■	■	■	■	■	■	■	7	■	■	■	■	■	■	2	■	■	■	■	■	■	■	■	■	■	■	■	5	0.38	1.00
(02-099) South Fork Indian Run																																
Year: 2010																																
1.3	68.5	19.23	■	■	■	■	■	■	■	8	■	■	■	■	■	■	2	■	■	■	■	■	■	■	■	■	■	■	■	2	0.33	0.56
(02-108) Eversole Run																																
Year: 2010																																
2.2	49.3	45.45	■	■	■	■	■	■	■	4	■	■	■	■	■	■	3	■	■	■	■	■	■	■	■	■	■	■	■	5	0.80	1.80
1.3	59.8	58.82	■	■	■	■	■	■	■	5	■	■	■	■	■	■	1	■	■	■	■	■	■	■	■	■	■	■	■	3	0.33	0.83
(02-138) Bokes Creek																																
Year: 2010																																
27.2	60.3	4.42	■	■	■	■	■	■	■	5	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	5	0.17	1.00
22.2	56.8	3.45	■	■	■	■	■	■	■	6	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	3	0.14	0.57
20.2	74.3	2.33	■	■	■	■	■	■	■	9	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	0	0.10	0.10
14.7	63.0	5.59	■	■	■	■	■	■	■	7	■	■	■	■	■	■	0	■	■	■	■	■	■	■	■	■	■	■	■	2	0.13	0.38

Appendix F – Index of Biotic Integrity (IBI) metrics, middle Scioto River watershed, 2009-2010.

River Mile	Type	Date	Drainage area (sq mi)	Number of						Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	
				Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omni- vores	Pioneering fishes	Insect- ivores	DELT anomalies			
Griffy Run - (02-076)																	
Year: 2010																	
1.10	E	08/03/2010	4.9	13(5)	6(5)	3(3)	2(1)	5(5)	6(5)	63(1)	13(5)	51(3)	17(1)	0.0(5)	1080(5)	44	
Dry Run - (02-077)																	
Year: 2010																	
3.70	E	08/03/2010	4.7	10(3)	4(3)	2(3)	0(1)	2(3)	2(1)	84(1)	7(5)	80(1)	15(1)	0.0(5)	44(1)	28	
0.50	E	08/03/2010	18.4	21(5)	7(5)	2(3)	6(3)	5(5)	9(5)	26(5)	13(5)	17(5)	43(3)	0.0(5)	510(3)	52	
Van Meter Run - (02-088)																	
Year: 2010																	
1.00	E	08/02/2010	5.8	18(5)	7(5)	4(5)	1(1)	4(5)	6(5)	59(1)	4(5)	59(1)	19(3)	0.0(5)	1200(5)	46	
Grove Run - (02-089)																	
Year: 2010																	
1.60	E	08/03/2010	5.6	16(5)	8(5)	3(3)	0(1)	3(3)	5(5)	49(3)	23(3)	45(3)	14(1)	0.1(5)	1878(5)	42	
Plum Run - (02-090)																	
Year: 2010																	
0.70	E	07/16/2010	7.0	18(5)	9(5)	3(3)	2(1)	5(5)	7(5)	67(1)	22(3)	25(5)	13(1)	0.0(5)	1186(5)	44	
Grant Run - (02-091)																	
Year: 2010																	
2.00	E	07/23/2010	7.8	17(5)	7(5)	2(3)	2(1)	4(5)	6(5)	41(3)	12(5)	36(3)	34(3)	0.0(5)	1398(5)	48	
0.20	E	08/17/2010	14.1	11(3)	7(5)	1(1)	2(1)	1(1)	3(1)	56(1)	11(1)	54(3)	13(1)	0.0(5)	77(1) *	24	
Scioto Big Run - (02-092)																	
Year: 2010																	
4.50	E	07/09/2010	11.8	15(5)	9(5)	1(1)	4(3)	2(3)	8(5)	24(5)	3(5)	19(5)	38(3)	2.8(5)	536(3)	48	
2.90	E	08/06/2010	17.6	18(5)	10(5)	2(3)	4(3)	4(3)	7(5)	13(5)	7(5)	13(5)	33(3)	0.0(5)	1280(5)	52	
Dry Run - (02-095)																	
Year: 2010																	
1.40	E	07/14/2010	7.0	5(1)	2(1)	0(1)	0(1)	0(1)	1(1)	43(3)	21(3)	22(5)	2(1)	0.0(5)	354(3)	26	
Hayden Run - (02-097)																	
Year: 2010																	

◆ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of							Percent of Individuals					Rel.No. minus tolerants / (0.3km)	IBI
				Total species	Minnow species	Headwater species	Sensitive species	Darter & Sculpin species	Simple Lithophils	Tolerant fishes	Omnivores	Pioneering fishes	Insectivores	DELT anomalies			
0.90	E	07/16/2010	7.0	5(1)	3(3)	1(1)	0(1)	0(1)	1(1)	99(1)	1(5)	49(3)	1(1)	0.0(5)	12(1)	24	
<i>N. Fk. Indian Run - (02-098)</i>																	
Year: 2010																	
5.20	E	07/14/2010	5.6	14(5)	4(3)	1(1)	1(1)	3(3)	2(1)	44(3)	15(3)	63(1)	35(3)	0.0(5)	408(3)	32	
1.80	E	07/02/2010	10.2	11(3)	4(3)	0(1)	2(1)	2(3)	4(3)	34(3)	12(5)	23(5)	5(1)	0.0(5)	548(3)	36	
<i>S. Fk. Indian Run - (02-099)</i>																	
Year: 2010																	
1.30	E	07/16/2010	5.1	6(3)	1(1)	0(1)	1(1)	1(1)	1(1)	84(1)	0(5)	77(1)	45(5)	0.0(5)	70(1)	26	
<i>Eversole Run - (02-108)</i>																	
Year: 2010																	
2.20	E	07/08/2010	4.3	9(3)	3(3)	1(1)	1(1)	3(5)	2(1)	39(3)	7(5)	74(1)	47(5)	0.0(5)	362(3)	36	
1.30	E	08/17/2010	10.5	18(5)	6(3)	1(1)	3(3)	5(5)	6(3)	26(5)	5(5)	55(1)	77(5)	0.8(3)	544(3)	42	
<i>Powderlick Run - (02-144)</i>																	
Year: 2010																	
3.40	E	07/01/2010	1.8	13(5)	7(5)	0(1)	0(1)	1(3)	1(1)	87(1)	43(1)	90(1)	19(3)	0.0(5)	182(5)	32	
1.20	E	06/30/2010	3.5	14(5)	6(5)	0(1)	1(1)	1(1)	2(1)	53(3)	17(3)	43(3)	39(5)	0.2(5)	371(5)	40	
<i>Kian Run - (02-197)</i>																	
Year: 2010																	
0.50	E	07/14/2010	9.1	11(3)	8(5)	1(1)	2(1)	1(1)	3(3)	84(1)	6(1)	81(1)	14(1)	0.0(5)	34(1)	24 ♦	
<i>Republican Run - (02-243)</i>																	
Year: 2010																	
1.70	E	07/22/2010	5.7	11(3)	5(3)	2(3)	0(1)	1(1)	3(3)	69(1)	16(3)	44(3)	1(1)	0.0(5)	768(5)	32	
<i>Trabue Run - (02-266)</i>																	
Year: 2010																	
0.30	E	08/17/2010	6.6	12(3)	4(3)	1(1)	2(1)	2(3)	2(1)	64(1)	4(5)	61(1)	50(5)	0.0(5)	140(1)	30	
<i>Peters Run - (02-368)</i>																	
Year: 2010																	
1.80	E	08/06/2010	7.2	11(3)	6(5)	3(3)	0(1)	3(3)	5(3)	55(3)	25(3)	44(3)	37(3)	0.0(5)	818(5)	40	

♦ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of					Percent of Individuals					Rel.No. minus tolerants /(0.3km)	IBI	Modified Iwb	
				Total species	Sunfish species	Sucker species	Intolerant species	Darter species	Simple Lithophils	Tolerant fishes	Omni- vores	Top carnivores	Insect- ivores				DELT anomalies
Scioto River - (02001)																	
Year: 2009																	
169.50	D	08/17/2009	566	23(5)	6(5)	4(3)	2(1)	5(3)	9(1)	44(1)	56(1)	6.3(5)	36(3)	0.0(5)	392(3)	36	9.1
Bokes Creek - (02138)																	
Year: 2010																	
27.20	E	07/07/2010	35	20(5)	3(3)	2(3)	0(1)	5(5)	37(5)	29(3)	27(3)	5.7(5)	65(5)	0.0(5)	357(3)	46	7.8
27.20	E	08/18/2010	35	27(5)	4(5)	3(3)	0(1)	6(5)	33(3)	28(3)	17(5)	14.0(5)	68(5)	0.5(3)	728(3)	46	9.5
22.20	E	07/07/2010	45	23(5)	3(3)	3(3)	0(1)	6(5)	27(3)	26(5)	20(3)	6.7(5)	63(5)	0.0(5)	579(3)	46	8.7
22.20	E	08/18/2010	45	25(5)	4(5)	4(5)	0(1)	5(5)	49(5)	30(3)	23(3)	11.1(5)	64(5)	0.0(5)	609(3)	50	8.7
20.20	E	07/08/2010	51	24(5)	4(5)	3(3)	0(1)	7(5)	41(5)	42(3)	9(5)	8.6(5)	71(5)	0.0(5)	414(3)	50	8.1
20.20	E	08/18/2010	51	22(5)	5(5)	3(3)	0(1)	5(5)	44(5)	32(3)	1(5)	6.5(5)	78(5)	0.0(5)	437(3)	50	8.2
14.70	D	07/08/2010	60	25(5)	4(5)	4(5)	0(1)	6(5)	46(5)	39(3)	32(3)	6.8(5)	54(3)	0.2(3)	771(5)	48	8.8
14.70	D	08/18/2010	60	28(5)	4(5)	4(5)	0(1)	6(5)	18(3)	35(3)	29(3)	2.4(3)	32(3)	0.1(3)	1860(5)	44	9.7

na - Qualitative data, Modified Iwb not applicable.

◆ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

● - One or more species excluded from IBI calculation.

River Mile	Type	Date	Drainage area (sq mi)	Number of				Percent of Individuals						DELTA anomalies	Rel.No. minus tolerants /(1.0 km)	Modified IBI	lwb
				Total species	Sunfish species	Sucker species	Intolerant species	Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omnivores	Top carnivores	Insectivores				
Scioto River - (02-001)																	
Year: 2010																	
127.50	A	08/03/2010	1628	28(5)	4(5)	7(5)	3(3)	10(1)	20(3)	10(5)	21(3)	7(3)	61(5)	1.1(3)	646(5)	46	10.7
127.50	A	09/13/2010	1628	34(5)	5(5)	6(5)	4(5)	11(1)	29(3)	3(5)	25(3)	5(3)	59(5)	1.0(3)	786(5)	48	11.0
126.40	A	08/03/2010	1636	28(5)	3(3)	9(5)	3(3)	22(3)	30(3)	4(5)	26(3)	7(3)	63(5)	2.4(3)	496(5)	46	10.4
126.40	A	09/13/2010	1636	31(5)	4(5)	8(5)	5(5)	9(1)	22(3)	5(5)	25(3)	7(3)	57(5)	0.8(3)	508(5)	48	10.7
119.90	A	09/07/2010	1697	30(5)	6(5)	7(5)	1(1)	19(3)	20(3)	4(5)	23(3)	14(5)	60(5)	1.4(3)	564(5)	48	11.1
117.70	A	09/06/2010	1709	26(5)	4(5)	8(5)	1(1)	25(3)	26(3)	11(5)	23(3)	8(3)	60(5)	2.8(3)	640(5)	46	11.3
109.20	A	09/14/2010	2311	33(5)	2(3)	8(5)	7(5)	14(1)	26(3)	8(5)	15(5)	8(3)	74(5)	0.0(5)	732(5)	50	11.1
102.00	A	08/02/2010	2638	32(5)	2(3)	7(5)	6(5)	29(3)	50(5)	1(5)	5(5)	8(3)	71(5)	0.8(3)	466(5)	52	10.2
102.00	A	09/14/2010	2638	36(5)	4(5)	8(5)	6(5)	38(3)	47(5)	4(5)	11(5)	10(5)	72(5)	0.4(5)	480(5)	58	10.4
100.00	A	09/23/2010	3217	38(5)	5(5)	8(5)	6(5)	16(1)	23(3)	5(5)	6(5)	6(3)	62(5)	0.3(5)	1164(5)	52	11.5
99.70	A	09/23/2010	3218	34(5)	3(3)	9(5)	5(5)	24(3)	34(5)	5(5)	10(5)	4(1)	76(5)	0.0(5)	578(5)	52	10.8
Year: 2009																	
174.20	A	08/11/2009	530	16(3)	6(5)	4(3)	0(1)	7(1)	10(1)	66(1)	39(1)	5(1)	57(5)	1.8(3)	112(1)	26	7.1
163.80	A	08/11/2009	660	29(5)	7(5)	4(3)	3(3)	10(1)	19(1)	28(1)	35(1)	9(3)	54(5)	0.3(5)	1026(5)	38	9.9
163.80	A	10/06/2009	660	23(5)	6(5)	5(3)	2(3)	34(3)	38(3)	27(1)	27(3)	18(5)	55(5)	0.0(5)	364(3)	44	9.2
157.10	A	08/12/2009	764	23(5)	7(5)	3(3)	2(3)	28(3)	37(3)	4(5)	4(5)	15(5)	74(5)	0.0(5)	840(5)	52	10.2
145.50	A	08/14/2009	990	23(5)	5(5)	4(3)	5(5)	17(1)	41(3)	4(5)	6(5)	17(5)	67(5)	0.2(5)	1072(5)	52	10.6
136.20	A	08/24/2009	1053	26(5)	6(5)	4(3)	5(5)	24(3)	37(3)	8(5)	8(5)	27(5)	56(5)	0.3(5)	1138(5)	54	10.3
131.80	A	08/13/2009	1611	22(5)	7(5)	4(3)	2(3)	4(1)	6(1)	38(1)	39(1)	3(1)	51(3)	0.0(5)	678(5)	34	8.4
129.10	A	08/25/2009	1621	43(5)	6(5)	11(5)	8(5)	5(1)	20(3)	15(3)	26(3)	11(5)	53(3)	0.4(5)	1196(5)	48	11.7
126.00	A	08/27/2009	1636	35(5)	4(5)	9(5)	7(5)	32(3)	40(5)	4(5)	17(3)	5(1)	71(5)	0.2(5)	1126(5)	52	11.5
119.90	A	09/02/2009	1697	44(5)	4(5)	8(5)	7(5)	17(1)	32(3)	10(5)	17(3)	5(3)	64(5)	0.4(5)	1236(5)	50	11.7
117.60	A	09/03/2009	1709	36(5)	4(5)	7(5)	5(5)	16(1)	27(3)	10(5)	16(5)	8(3)	73(5)	0.2(5)	960(5)	52	11.1
116.30	A	09/03/2009	2267	39(5)	5(5)	8(5)	7(5)	21(3)	33(3)	3(5)	8(5)	4(1)	74(5)	0.2(5)	1130(5)	52	11.6
109.40	A	09/15/2009	2311	40(5)	4(5)	10(5)	8(5)	15(1)	39(5)	2(5)	8(5)	9(3)	69(5)	0.5(5)	840(5)	54	11.6

◆ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

River Mile	Type	Date	Drainage area (sq mi)	Number of				Percent of Individuals							Rel.No. minus tolerants /(1.0 km)	Modified	
				Total species	Sunfish species	Sucker species	Intolerant species	Rnd-bodied suckers	Simple Lithophils	Tolerant fishes	Omni- vores	Top carnivores	Insect- ivores	DELT anomalies		IBI	lwb
105.30	A	09/15/2009	2615	38(5)	4(5)	8(5)	3(3)	16(1)	35(5)	1(5)	17(3)	8(3)	61(5)	0.8(3)	632(5)	48	11.4
100.00	A	08/26/2009	3217	38(5)	4(5)	10(5)	6(5)	19(3)	42(5)	10(5)	18(3)	5(3)	71(5)	0.0(5)	1202(5)	54	11.4

◆ - IBI is low end adjusted.

* - < 200 Total individuals in sample

** - < 50 Total individuals in sample

Appendix G – Fish species, middle Scioto River watershed, 2009-2010.

River Code: 02-001	Stream: Scioto River	Sample Date: 08/11/2009
River Mile: 174.20	Location: St. Rt. 4	Invalid Sample:
Time Fished: 2517 sec	Drainage: 530.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Pike	F	P	M	1	2.00	0.60	0.95	0.76	475.00
Silver Redhorse	R	I	S M	6	12.00	3.61	15.30	12.23	1,274.60
Golden Redhorse	R	I	S M	2	4.00	1.20	2.32	1.86	580.50
White Sucker	W	O	S T	4	8.00	2.41	1.26	1.00	157.00
Spotted Sucker	R	I	S	4	8.00	2.41	2.90	2.32	362.25
Common Carp	G	O	M T	27	54.00	16.27	96.84	77.44	1,793.33
Spotfin Shiner	N	I	M	2	4.00	1.20	0.01	0.01	2.00
Bluntnose Minnow	N	O	C T	33	66.00	19.88	0.13	0.10	1.94
Yellow Bullhead		I	C T	1	2.00	0.60	0.25	0.20	124.00
Black Bullhead		I	C P	6	12.00	3.61	1.89	1.51	157.67
White Crappie	S	I	C	1	2.00	0.60	0.17	0.14	87.00
Rock Bass	S	C	C	5	10.00	3.01	1.17	0.94	117.20
Largemouth Bass	F	C	C	2	4.00	1.20	0.04	0.03	10.00
Green Sunfish	S	I	C T	45	90.00	27.11	1.40	1.12	15.59
Bluegill Sunfish	S	I	C P	1	2.00	0.60	0.10	0.08	50.00
Orangespotted Sunfish	S	I	C	17	34.00	10.24	0.19	0.16	5.71
Longear Sunfish	S	I	C M	9	18.00	5.42	0.14	0.11	7.56
<i>Date Total</i>				166	332.00		125.06		
<i>Number of Species</i>				17					
<i>Number of Hybrids</i>				0					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/17/2009
River Mile: 169.50	Location: upst. Hoskins Rd.	Invalid Sample:
Time Fished: 1718 sec	Drainage: 566.0 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: D
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	85	127.50	18.36	2.35	4.32	18.45
Silver Redhorse	R	I	S M	1	1.50	0.22	2.55	4.68	1,700.00
Golden Redhorse	R	I	S M	15	22.50	3.24	5.25	9.64	233.33
Northern Hog Sucker	R	I	S M	14	21.00	3.02	4.77	8.75	226.92
White Sucker	W	O	S T	3	4.50	0.65	1.13	2.07	250.00
Common Carp	G	O	M T	6	9.00	1.30	19.20	35.25	2,133.33
Spotfin Shiner	N	I	M	52	78.00	11.23	0.24	0.44	3.04
Sand Shiner	N	I	M M	5	7.50	1.08	0.01	0.02	1.60
Bluntnose Minnow	N	O	C T	163	244.50	35.21	0.42	0.78	1.73
Channel Catfish	F		C	8	12.00	1.73	5.11	9.38	425.75
Flathead Catfish	F	P	C	1	1.50	0.22	0.45	0.83	300.00
Stonecat Madtom		I	C I	1	1.50	0.22	0.05	0.10	35.00
White Crappie	S	I	C	6	9.00	1.30	1.78	3.28	198.17
Black Crappie	S	I	C	2	3.00	0.43	0.60	1.10	200.00
Rock Bass	S	C	C	7	10.50	1.51	1.28	2.34	121.43
Smallmouth Bass	F	C	C M	19	28.50	4.10	6.75	12.39	236.84
Green Sunfish	S	I	C T	30	45.00	6.48	0.50	0.92	11.17
Bluegill Sunfish	S	I	C P	7	10.50	1.51	0.57	1.05	54.29
Longear Sunfish	S	I	C M	11	16.50	2.38	0.13	0.24	8.00
Green Sf X Bluegill Sf				1	1.50	0.22	0.02	0.03	11.00
Logperch	D	I	S M	1	1.50	0.22	0.03	0.06	22.00
Johnny Darter	D	I	C	12	18.00	2.59	0.03	0.06	1.75
Greenside Darter	D	I	S M	2	3.00	0.43	0.02	0.03	6.00
Banded Darter	D	I	S I	5	7.50	1.08	0.02	0.03	2.20
Fantail Darter	D	I	C	4	6.00	0.86	0.01	0.01	1.33
Sauger X Walleye	E	P		2	3.00	0.43	1.20	2.20	400.00
<i>Date Total</i>				463	694.50		54.46		
<i>Number of Species</i>				24					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/11/2009
River Mile: 163.80	Location: Mink St.	Invalid Sample:
Time Fished: 1754 sec	Drainage: 660.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	57	114.00	8.02	4.83	3.78	42.33
Northern Pike	F	P	M	1	2.00	0.14	0.09	0.07	45.00
Silver Redhorse	R	I	S M	4	8.00	0.56	9.66	7.56	1,208.00
Golden Redhorse	R	I	S M	35	70.00	4.92	25.66	20.08	366.58
Northern Hog Sucker	R	I	S M	30	60.00	4.22	15.02	11.76	250.38
White Sucker	W	O	S T	5	10.00	0.70	2.69	2.10	268.80
Common Carp	G	O	M T	10	20.00	1.41	36.75	28.76	1,837.50
Golden Shiner	N	I	M T	1	2.00	0.14	0.01	0.00	3.00
Silver Shiner	N	I	S I	3	6.00	0.42	0.09	0.07	14.67
Spotfin Shiner	N	I	M	220	440.00	30.94	1.19	0.93	2.71
Sand Shiner	N	I	M M	1	2.00	0.14	0.00	0.00	2.00
Bluntnose Minnow	N	O	C T	179	358.00	25.18	0.88	0.69	2.45
Central Stoneroller	N	H	N	5	10.00	0.70	0.07	0.05	7.00
Channel Catfish	F		C	3	6.00	0.42	2.92	2.29	486.67
Stonecat Madtom		I	C I	6	12.00	0.84	0.19	0.15	15.67
White Bass	F	P	M	1	2.00	0.14	0.02	0.02	12.00
White Crappie	S	I	C	1	2.00	0.14	0.36	0.28	180.00
Black Crappie	S	I	C	1	2.00	0.14	0.50	0.39	248.00
Rock Bass	S	C	C	14	28.00	1.97	3.14	2.46	112.08
Smallmouth Bass	F	C	C M	45	90.00	6.33	18.90	14.79	209.96
Largemouth Bass	F	C	C	3	6.00	0.42	0.05	0.04	9.00
Green Sunfish	S	I	C T	3	6.00	0.42	0.24	0.19	40.00
Bluegill Sunfish	S	I	C P	1	2.00	0.14	0.18	0.14	90.00
Orangespotted Sunfish	S	I	C	2	4.00	0.28	0.04	0.03	9.00
Longear Sunfish	S	I	C M	13	26.00	1.83	0.64	0.50	24.62
Logperch	D	I	S M	20	40.00	2.81	0.48	0.38	12.10
Johnny Darter	D	I	C	7	14.00	0.98	0.03	0.02	2.00
Greenside Darter	D	I	S M	32	64.00	4.50	0.20	0.16	3.13
Banded Darter	D	I	S I	5	10.00	0.70	0.02	0.01	1.60
Fantail Darter	D	I	C	1	2.00	0.14	0.00	0.00	2.00
Sauger X Walleye	E	P		2	4.00	0.28	2.94	2.30	735.00
<i>Date Total</i>				711	1,422.00		127.78		
<i>Number of Species</i>				30					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 10/06/2009
River Mile: 163.80	Location: Mink St.	Invalid Sample:
Time Fished: 2472 sec	Drainage: 660.0 sq mi	Depth:
Dist Fished: 0.50 km	Basin: Scioto River	Flow: C
		Data Source: 01
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	177	354.00	41.45	15.00	9.68	42.37
Redfin Pickerel		P	M P	1	2.00	0.23	0.05	0.03	25.00
Northern Pike	F	P	M	1	2.00	0.23	0.31	0.20	155.00
Silver Redhorse	R	I	S M	2	4.00	0.47	6.10	3.94	1,525.00
Golden Redhorse	R	I	S M	38	76.00	8.90	35.88	23.15	472.09
Northern Hog Sucker	R	I	S M	43	86.00	10.07	25.28	16.31	293.91
White Sucker	W	O	S T	7	14.00	1.64	5.00	3.23	357.14
Spotted Sucker	R	I	S	1	2.00	0.23	0.02	0.02	12.00
Common Carp	G	O	M T	8	16.00	1.87	40.60	26.19	2,537.50
Silver Shiner	N	I	S I	2	4.00	0.47	0.06	0.04	14.00
Spotfin Shiner	N	I	M	36	72.00	8.43	0.21	0.14	2.94
Bluntnose Minnow	N	O	C T	52	104.00	12.18	0.31	0.20	3.00
Central Stoneroller	N	H	N	2	4.00	0.47	0.02	0.01	5.00
White Crappie	S	I	C	1	2.00	0.23	0.03	0.02	15.00
Rock Bass	S	C	C	6	12.00	1.41	1.56	1.01	130.00
Smallmouth Bass	F	C	C M	33	66.00	7.73	23.79	15.35	360.42
Largemouth Bass	F	C	C	3	6.00	0.70	0.10	0.06	16.00
Green Sunfish	S	I	C T	1	2.00	0.23	0.10	0.06	50.00
Bluegill Sunfish	S	I	C P	1	2.00	0.23	0.20	0.13	98.00
Longear Sunfish	S	I	C M	6	12.00	1.41	0.18	0.12	15.00
Pumpkinseed Sunfish	S	I	C P	1	2.00	0.23	0.20	0.13	99.00
Johnny Darter	D	I	C	1	2.00	0.23	0.00	0.00	2.00
Greenside Darter	D	I	S M	1	2.00	0.23	0.01	0.01	6.00
Banded Darter	D	I	S I	2	4.00	0.47	0.01	0.00	1.50
Fantail Darter	D	I	C	1	2.00	0.23	0.00	0.00	2.00
<i>Date Total</i>				427	854.00		155.01		
<i>Number of Species</i>				25					
<i>Number of Hybrids</i>				0					

Species List

River Code: 02-001	Stream: Scioto River	Sample Date: 08/12/2009
River Mile: 157.10	Location: 1.7 mi. upst. Mill Creek adj. Klondike Rd.	Invalid Sample:
Time Fished: 1683 sec	Drainage: 764.0 sq mi	Depth:
Dist Fished: 0.50 km	Basin: Scioto River	Flow: C
		Data Source: 01
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	520	1,040.00	54.22	15.40	9.92	14.81
Silver Redhorse	R	I	S M	2	4.00	0.21	4.02	2.59	1,004.00
Golden Redhorse	R	I	S M	59	118.00	6.15	29.68	19.12	251.56
Northern Hog Sucker	R	I	S M	60	120.00	6.26	32.22	20.75	268.52
Common Carp	G	O	M T	4	8.00	0.42	19.80	12.75	2,475.00
Golden Shiner	N	I	M T	2	4.00	0.21	0.06	0.04	14.00
Spotfin Shiner	N	I	M	82	164.00	8.55	0.65	0.42	3.96
Bluntnose Minnow	N	O	C T	12	24.00	1.25	0.10	0.07	4.33
Central Stoneroller	N	H	N	4	8.00	0.42	0.08	0.05	10.00
Channel Catfish	F		C	23	46.00	2.40	11.67	7.51	253.64
Stonecat Madtom		I	C I	1	2.00	0.10	0.09	0.06	44.00
White Crappie	S	I	C	1	2.00	0.10	0.02	0.01	10.00
Black Crappie	S	I	C	1	2.00	0.10	0.30	0.19	148.00
Rock Bass	S	C	C	22	44.00	2.29	2.94	1.89	66.71
Smallmouth Bass	F	C	C M	34	68.00	3.55	17.89	11.53	263.13
Largemouth Bass	F	C	C	10	20.00	1.04	9.31	6.00	465.50
Green Sunfish	S	I	C T	1	2.00	0.10	0.08	0.05	38.00
Bluegill Sunfish	S	I	C P	71	142.00	7.40	9.82	6.33	69.16
Orangespotted Sunfish	S	I	C	2	4.00	0.21	0.06	0.04	15.00
Longear Sunfish	S	I	C M	2	4.00	0.21	0.09	0.06	22.50
Green Sf X Bluegill Sf				1	2.00	0.10	0.29	0.19	144.00
Logperch	D	I	S M	18	36.00	1.88	0.39	0.25	10.89
Johnny Darter	D	I	C	1	2.00	0.10	0.00	0.00	2.00
Greenside Darter	D	I	S M	8	16.00	0.83	0.05	0.03	3.00
Banded Darter	D	I	S I	13	26.00	1.36	0.08	0.05	3.15
Rainbow Darter	D	I	S M	3	6.00	0.31	0.01	0.01	2.00
Sauger X Walleye	E	P		2	4.00	0.21	0.15	0.10	38.50
<i>Date Total</i>				959	1,918.00		155.25		
<i>Number of Species</i>				25					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/14/2009
River Mile: 145.50	Location: I-270	Invalid Sample:
Time Fished: 2329 sec	Drainage: 990.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	10	20.00	1.79	4.60	1.77	230.10
Silver Redhorse	R	I	S M	2	4.00	0.36	10.60	4.08	2,650.00
Black Redhorse	R	I	S I	54	108.00	9.66	96.77	37.24	896.00
Golden Redhorse	R	I	S M	23	46.00	4.11	56.96	21.92	1,238.33
Northern Hog Sucker	R	I	S M	18	36.00	3.22	13.87	5.34	385.29
Common Carp	G	O	M T	4	8.00	0.72	44.10	16.97	5,512.50
River Chub	N	I	N I	49	98.00	8.77	5.00	1.93	51.05
Rosyface Shiner	N	I	S I	2	4.00	0.36	0.02	0.01	4.00
Striped Shiner	N	I	S	34	68.00	6.08	2.79	1.07	40.97
Spotfin Shiner	N	I	M	20	40.00	3.58	0.30	0.12	7.60
Bluntnose Minnow	N	O	C T	19	38.00	3.40	0.18	0.07	4.68
Central Stoneroller	N	H	N	48	96.00	8.59	2.72	1.05	28.32
Stonecat Madtom		I	C I	3	6.00	0.54	0.14	0.05	23.00
White Crappie	S	I	C	2	4.00	0.36	0.76	0.29	190.50
Rock Bass	S	C	C	26	52.00	4.65	5.17	1.99	99.33
Smallmouth Bass	F	C	C M	70	140.00	12.52	7.63	2.94	54.50
Largemouth Bass	F	C	C	1	2.00	0.18	0.50	0.19	248.00
Bluegill Sunfish	S	I	C P	64	128.00	11.45	5.54	2.13	43.28
Orangespotted Sunfish	S	I	C	5	10.00	0.89	0.10	0.04	10.00
Longear Sunfish	S	I	C M	4	8.00	0.72	0.15	0.06	18.75
Green Sf X Bluegill Sf				5	10.00	0.89	0.51	0.20	51.00
Logperch	D	I	S M	86	172.00	15.38	1.32	0.51	7.66
Greenside Darter	D	I	S M	6	12.00	1.07	0.08	0.03	7.00
Banded Darter	D	I	S I	2	4.00	0.36	0.01	0.00	3.00
Fantail Darter	D	I	C	2	4.00	0.36	0.01	0.00	2.00
<i>Date Total</i>				559	1,118.00		259.82		
<i>Number of Species</i>				24					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/24/2009
River Mile: 136.20	Location: dst. Fifth Ave.	Invalid Sample:
Time Fished: 2110 sec	Drainage: 1049.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	9	18.00	1.45	3.55	2.41	197.22
Black Redhorse	R	I	S I	69	138.00	11.11	41.45	28.13	300.39
Golden Redhorse	R	I	S M	58	116.00	9.34	42.52	28.85	366.55
River Redhorse [S]	R	I	S I	7	14.00	1.13	23.85	16.18	1,703.57
Northern Hog Sucker	R	I	S M	14	28.00	2.25	4.11	2.79	146.86
River Chub	N	I	N I	31	62.00	4.99	0.98	0.66	15.81
Rosyface Shiner	N	I	S I	4	8.00	0.64	0.02	0.01	2.50
Striped Shiner	N	I	S	56	112.00	9.02	1.16	0.79	10.33
Spotfin Shiner	N	I	M	9	18.00	1.45	0.14	0.10	7.89
Bluntnose Minnow	N	O	C T	38	76.00	6.12	0.46	0.31	6.11
Central Stoneroller	N	H	N	57	114.00	9.18	0.92	0.62	8.04
Channel Catfish	F		C	1	2.00	0.16	3.25	2.21	1,625.00
Yellow Bullhead		I	C T	1	2.00	0.16	0.28	0.19	138.00
White Crappie	S	I	C	1	2.00	0.16	0.29	0.20	146.00
Rock Bass	S	C	C	7	14.00	1.13	2.10	1.42	150.00
Smallmouth Bass	F	C	C M	153	306.00	24.64	15.07	10.23	49.25
Largemouth Bass	F	C	C	4	8.00	0.64	0.17	0.12	21.75
Green Sunfish	S	I	C T	13	26.00	2.09	0.85	0.58	32.85
Bluegill Sunfish	S	I	C P	43	86.00	6.92	2.12	1.44	24.60
Orangespotted Sunfish	S	I	C	1	2.00	0.16	0.02	0.02	12.00
Longear Sunfish	S	I	C M	18	36.00	2.90	0.36	0.24	9.89
Green Sf X Bluegill Sf				4	8.00	0.64	0.55	0.37	69.00
Logperch	D	I	S M	18	36.00	2.90	0.27	0.19	7.61
Greenside Darter	D	I	S M	1	2.00	0.16	0.00	0.00	2.00
Banded Darter	D	I	S I	1	2.00	0.16	0.00	0.00	2.00
Rainbow Darter	D	I	S M	1	2.00	0.16	0.00	0.00	2.00
Fantail Darter	D	I	C	1	2.00	0.16	0.00	0.00	2.00
Sauger X Walleye	E	P		1	2.00	0.16	2.85	1.93	1,425.00
<i>Date Total</i>				621	1,242.00		147.37		
<i>Number of Species</i>				26					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/13/2009
River Mile: 131.80	Location: Broad St.	Invalid Sample:
Time Fished: 1852 sec	Drainage: 1611.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	57	114.00	10.46	2.68	2.03	23.51
Quillback	C	O	M	1	2.00	0.18	2.05	1.56	1,025.00
Black Redhorse	R	I	S I	2	4.00	0.37	1.80	1.37	451.00
Golden Redhorse	R	I	S M	11	22.00	2.02	9.37	7.11	425.91
River Redhorse [S]	R	I	S I	11	22.00	2.02	7.19	5.46	327.00
Common Carp	G	O	M T	15	30.00	2.75	81.92	62.17	2,730.77
Golden Shiner	N	I	M T	23	46.00	4.22	0.60	0.46	13.04
Striped Shiner	N	I	S	1	2.00	0.18	0.01	0.00	3.00
Spotfin Shiner	N	I	M	2	4.00	0.37	0.02	0.02	5.00
Bluntnose Minnow	N	O	C T	141	282.00	25.87	0.75	0.57	2.66
Central Stoneroller	N	H	N	1	2.00	0.18	0.01	0.01	4.00
Brook Silverside		I	M M	7	14.00	1.28	0.02	0.02	1.43
White Crappie	S	I	C	1	2.00	0.18	0.22	0.17	112.00
Black Crappie	S	I	C	1	2.00	0.18	0.34	0.26	172.00
Smallmouth Bass	F	C	C M	5	10.00	0.92	2.77	2.11	277.40
Largemouth Bass	F	C	C	8	16.00	1.47	7.82	5.93	488.75
Green Sunfish	S	I	C T	27	54.00	4.95	1.15	0.87	21.26
Bluegill Sunfish	S	I	C P	49	98.00	8.99	0.78	0.59	7.94
Orangespotted Sunfish	S	I	C	45	90.00	8.26	0.35	0.27	3.91
Longear Sunfish	S	I	C M	88	176.00	16.15	1.12	0.85	6.38
Pumpkinseed Sunfish	S	I	C P	5	10.00	0.92	0.44	0.34	44.40
Hybrid X Sunfish				34	68.00	6.24	2.75	2.08	40.38
Logperch	D	I	S M	5	10.00	0.92	0.10	0.07	9.80
Greenside Darter	D	I	S M	1	2.00	0.18	0.00	0.00	2.00
Sauger X Walleye	E	P		4	8.00	0.73	7.50	5.69	937.50
<i>Date Total</i>				545	1,090.00		131.78		
<i>Number of Species</i>				23					
<i>Number of Hybrids</i>				2					

Species List

Page 9

River Code: 02-001	Stream: Scioto River	Sample Date: 08/25/2009
River Mile: 129.10	Location: 0.4 mi. dst. Greenlawn Ave.	Invalid Sample:
Time Fished: 2786 sec	Drainage: 1621.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	53	106.00	7.53	3.43	1.54	32.35
Bigmouth Buffalo	C	I	M	1	2.00	0.14	8.00	3.60	4,000.00
Black Buffalo	C	I	M	4	8.00	0.57	9.20	4.14	1,150.00
Smallmouth Buffalo	C	I	M	9	18.00	1.28	24.75	11.13	1,375.00
Quillback	C	O	M	4	8.00	0.57	6.10	2.74	762.50
River Carpsucker	C	O	M	22	44.00	3.13	34.34	15.45	780.56
Silver Redhorse	R	I	S M	1	2.00	0.14	5.00	2.25	2,500.00
Golden Redhorse	R	I	S M	4	8.00	0.57	4.15	1.87	518.75
River Redhorse [S]	R	I	S I	5	10.00	0.71	14.60	6.57	1,460.00
Northern Hog Sucker	R	I	S M	7	14.00	0.99	1.52	0.68	108.29
Spotted Sucker	R	I	S	1	2.00	0.14	0.45	0.20	225.00
Smallmouth Redhorse	R	I	S M	16	32.00	2.27	15.85	7.13	495.33
Common Carp	G	O	M T	2	4.00	0.28	18.10	8.14	4,525.00
River Chub	N	I	N I	3	6.00	0.43	0.10	0.04	16.00
Suckermouth Minnow	N	I	S	2	4.00	0.28	0.02	0.01	5.00
Emerald Shiner	N	I	M	1	2.00	0.14	0.01	0.00	5.00
Silver Shiner	N	I	S I	3	6.00	0.43	0.05	0.02	8.33
Rosyface Shiner	N	I	S I	2	4.00	0.28	0.02	0.01	4.00
Steelcolor Shiner	N	I	M P	14	28.00	1.99	0.14	0.06	5.00
Spotfin Shiner	N	I	M	97	194.00	13.78	0.63	0.28	3.24
Sand Shiner	N	I	M M	18	36.00	2.56	0.06	0.03	1.72
Mimic Shiner	N	I	M I	1	2.00	0.14	0.00	0.00	2.00
Bluntnose Minnow	N	O	C T	103	206.00	14.63	0.42	0.19	2.02
Central Stoneroller	N	H	N	19	38.00	2.70	0.25	0.11	6.47
Channel Catfish	F		C	6	12.00	0.85	23.72	10.67	1,976.67
Stonecat Madtom		I	C I	2	4.00	0.28	0.10	0.04	24.00
Brook Silverside		I	M M	12	24.00	1.70	0.03	0.01	1.33
White Bass	F	P	M	1	2.00	0.14	0.90	0.40	450.00
White Crappie	S	I	C	3	6.00	0.43	0.46	0.21	76.00
Rock Bass	S	C	C	2	4.00	0.28	0.11	0.05	27.50
Smallmouth Bass	F	C	C M	51	102.00	7.24	3.29	1.48	32.24
Spotted Bass	F	C	C	8	16.00	1.14	4.40	1.98	275.00
Green Sunfish	S	I	C T	1	2.00	0.14	0.10	0.05	52.00
Bluegill Sunfish	S	I	C P	35	70.00	4.97	2.20	0.99	31.43
Orangespotted Sunfish	S	I	C	9	18.00	1.28	0.08	0.04	4.33
Longear Sunfish	S	I	C M	32	64.00	4.55	0.75	0.34	11.72
Green Sf X Bluegill Sf				19	38.00	2.70	1.77	0.80	46.63
Sauger	F	P	S	15	30.00	2.13	6.54	2.94	217.86
Slenderhead Darter	D	I	S R	5	10.00	0.71	0.03	0.02	3.40
Logperch	D	I	S M	68	136.00	9.66	0.82	0.37	6.03
Greenside Darter	D	I	S M	1	2.00	0.14	0.01	0.00	3.00
Banded Darter	D	I	S I	11	22.00	1.56	0.02	0.01	1.09
Rainbow Darter	D	I	S M	2	4.00	0.28	0.01	0.00	2.00
Fantail Darter	D	I	C	4	8.00	0.57	0.04	0.02	5.00
Freshwater Drum			M P	25	50.00	3.55	29.79	13.40	595.83
<i>Date Total</i>				704	1,408.00		222.35		
<i>Number of Species</i>				44					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/03/2010
River Mile: 127.50	Location: dst. Frank Rd.	Invalid Sample:
Time Fished: 2867 sec	Drainage: 1628.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	15	30.00	4.17	6.32	2.56	210.60
Smallmouth Buffalo	C	I	M	32	64.00	8.89	95.51	38.77	1,492.39
Quillback	C	O	M	13	26.00	3.61	17.30	7.02	665.38
River Carpsucker	C	O	M	8	16.00	2.22	14.20	5.76	887.50
Golden Redhorse	R	I	S M	3	6.00	0.83	1.16	0.47	193.00
Northern Hog Sucker	R	I	S M	13	26.00	3.61	9.22	3.74	354.54
Bm Buffalo X Sm Buffalo	C	I	M	1	2.00	0.28	2.50	1.01	1,250.00
Smallmouth Redhorse	R	I	S M	19	38.00	5.28	19.05	7.73	501.37
Common Carp	G	O	M T	2	4.00	0.56	13.25	5.38	3,312.50
Rosyface Shiner	N	I	S I	2	4.00	0.56	0.01	0.00	1.50
Steelcolor Shiner	N	I	M P	11	22.00	3.06	0.03	0.01	1.27
Spotfin Shiner	N	I	M	52	104.00	14.44	0.21	0.08	2.00
Sand Shiner	N	I	M M	27	54.00	7.50	0.08	0.03	1.56
Mimic Shiner	N	I	M I	6	12.00	1.67	0.02	0.01	1.67
Bullhead Minnow	N	O	C	2	4.00	0.56	0.01	0.00	2.00
Bluntnose Minnow	N	O	C T	34	68.00	9.44	0.07	0.03	1.00
Channel Catfish	F		C	5	10.00	1.39	15.30	6.21	1,530.00
Flathead Catfish	F	P	C	2	4.00	0.56	1.10	0.45	275.50
Rock Bass	S	C	C	2	4.00	0.56	0.08	0.03	19.50
Smallmouth Bass	F	C	C M	15	30.00	4.17	5.94	2.41	198.00
Largemouth Bass	F	C	C	1	2.00	0.28	0.02	0.01	12.00
Green Sunfish	S	I	C T	1	2.00	0.28	0.06	0.03	32.00
Bluegill Sunfish	S	I	C P	5	10.00	1.39	0.44	0.18	43.60
Longear Sunfish	S	I	C M	14	28.00	3.89	0.76	0.31	27.00
Green Sf X Hybrid				8	16.00	2.22	0.97	0.39	60.75
Sauger	F	P	S	3	6.00	0.83	1.29	0.52	214.33
Logperch	D	I	S M	29	58.00	8.06	0.73	0.30	12.66
Greenside Darter	D	I	S M	3	6.00	0.83	0.04	0.02	6.33
Banded Darter	D	I	S I	1	2.00	0.28	0.00	0.00	2.00
Sauger X Walleye	E	P		1	2.00	0.28	0.70	0.28	350.00
Freshwater Drum			M P	30	60.00	8.33	39.98	16.23	666.38
<i>Date Total</i>				360	720.00		246.35		
<i>Number of Species</i>				28					
<i>Number of Hybrids</i>				3					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/13/2010
River Mile: 127.50	Location: dst. Frank Rd.	Invalid Sample:
Time Fished: 2691 sec	Drainage: 1628.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.25	1.10	0.50	550.00
Gizzard Shad		O	M	60	120.00	14.85	14.89	6.82	124.08
Smallmouth Buffalo	C	I	M	20	40.00	4.95	60.85	27.86	1,521.25
Quillback	C	O	M	4	8.00	0.99	6.30	2.88	787.50
River Carpsucker	C	O	M	24	48.00	5.94	33.39	15.29	695.65
Golden Redhorse	R	I	S M	11	22.00	2.72	10.45	4.79	475.00
Northern Hog Sucker	R	I	S M	24	48.00	5.94	10.26	4.70	213.64
Smallmouth Redhorse	R	I	S M	8	16.00	1.98	8.23	3.77	514.29
Golden Shiner	N	I	M T	3	6.00	0.74	0.08	0.03	12.67
River Chub	N	I	N I	2	4.00	0.50	0.05	0.02	13.50
Gravel Chub	N	I	S M	4	8.00	0.99	0.04	0.02	5.00
Emerald Shiner	N	I	M	8	16.00	1.98	0.08	0.04	5.00
Steelcolor Shiner	N	I	M P	13	26.00	3.22	0.13	0.06	4.92
Spotfin Shiner	N	I	M	5	10.00	1.24	0.04	0.02	3.80
Sand Shiner	N	I	M M	3	6.00	0.74	0.01	0.01	2.33
Mimic Shiner	N	I	M I	12	24.00	2.97	0.06	0.03	2.50
Bullhead Minnow	N	O	C	3	6.00	0.74	0.02	0.01	3.67
Bluntnose Minnow	N	O	C T	8	16.00	1.98	0.07	0.03	4.63
Central Stoneroller	N	H	N	8	16.00	1.98	0.22	0.10	13.75
Channel Catfish	F		C	1	2.00	0.25	5.50	2.52	2,750.00
Black Crappie	S	I	C	3	6.00	0.74	0.52	0.24	87.33
Rock Bass	S	C	C	3	6.00	0.74	0.09	0.04	15.00
Smallmouth Bass	F	C	C M	6	12.00	1.49	0.72	0.33	60.00
Spotted Bass	F	C	C	2	4.00	0.50	1.30	0.60	325.00
Largemouth Bass	F	C	C	4	8.00	0.99	0.36	0.16	45.00
Bluegill Sunfish	S	I	C P	23	46.00	5.69	1.89	0.87	41.14
Orangespotted Sunfish	S	I	C	4	8.00	0.99	0.08	0.04	10.00
Longear Sunfish	S	I	C M	30	60.00	7.43	1.20	0.55	20.03
Green Sf X Hybrid				8	16.00	1.98	0.42	0.19	26.25
Sauger	F	P	S	5	10.00	1.24	3.10	1.42	310.00
Slenderhead Darter	D	I	S R	2	4.00	0.50	0.04	0.02	10.00
Logperch	D	I	S M	59	118.00	14.60	1.78	0.82	15.09
Greenside Darter	D	I	S M	2	4.00	0.50	0.04	0.02	10.00
Banded Darter	D	I	S I	2	4.00	0.50	0.02	0.01	6.00
Sauger X Walleye	E	P		1	2.00	0.25	0.60	0.27	300.00
Freshwater Drum			M P	28	56.00	6.93	54.44	24.93	972.12
<i>Date Total</i>				404	808.00		218.38		
<i>Number of Species</i>				34					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/03/2010
River Mile: 126.40	Location: dst. Jackson Pike WWTP	Invalid Sample:
Time Fished: 2855 sec	Drainage: 1636.0 sq mi	Depth:
Dist Fished: 0.50 km	Basin: Scioto River	Flow: C
		Data Source: 01
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Silver Lamprey		P	N	1	2.00	0.39	0.02	0.00	8.00
Gizzard Shad		O	M	4	8.00	1.54	1.79	0.49	223.50
Black Buffalo	C	I	M	5	10.00	1.93	17.70	4.86	1,770.00
Smallmouth Buffalo	C	I	M	46	92.00	17.76	145.84	40.03	1,585.23
Quillback	C	O	M	12	24.00	4.63	23.45	6.44	977.08
River Carpsucker	C	O	M	44	88.00	16.99	74.37	20.41	845.12
Black Redhorse	R	I	S I	1	2.00	0.39	1.70	0.47	850.00
Golden Redhorse	R	I	S M	2	4.00	0.77	1.60	0.44	400.00
Northern Hog Sucker	R	I	S M	9	18.00	3.47	4.92	1.35	273.33
Spotted Sucker	R	I	S	1	2.00	0.39	1.36	0.37	680.00
Smallmouth Redhorse	R	I	S M	45	90.00	17.37	45.22	12.41	502.44
Common Carp	G	O	M T	4	8.00	1.54	27.00	7.41	3,375.00
Streamline Chub	N	I	S R	2	4.00	0.77	0.04	0.01	10.00
Steelcolor Shiner	N	I	M P	2	4.00	0.77	0.01	0.00	2.50
Spotfin Shiner	N	I	M	14	28.00	5.41	0.07	0.02	2.50
Sand Shiner	N	I	M M	1	2.00	0.39	0.00	0.00	2.00
Mimic Shiner	N	I	M I	3	6.00	1.16	0.01	0.00	2.00
Bluntnose Minnow	N	O	C T	4	8.00	1.54	0.01	0.00	1.25
Channel Catfish	F		C	1	2.00	0.39	2.60	0.71	1,300.00
Flathead Catfish	F	P	C	2	4.00	0.77	1.20	0.33	300.00
White Bass	F	P	M	1	2.00	0.39	0.39	0.11	195.00
Smallmouth Bass	F	C	C M	11	22.00	4.25	2.90	0.80	132.00
Green Sunfish	S	I	C T	3	6.00	1.16	0.09	0.02	15.00
Bluegill Sunfish	S	I	C P	6	12.00	2.32	0.36	0.10	29.67
Longear Sunfish	S	I	C M	5	10.00	1.93	0.32	0.09	32.00
Green Sf X Hybrid				5	10.00	1.93	1.06	0.29	106.00
Sauger	F	P	S	1	2.00	0.39	0.55	0.15	275.00
Logperch	D	I	S M	15	30.00	5.79	0.42	0.12	14.00
Greenside Darter	D	I	S M	2	4.00	0.77	0.04	0.01	9.00
Sauger X Walleye	E	P		2	4.00	0.77	2.64	0.72	660.00
Freshwater Drum			M P	5	10.00	1.93	6.66	1.83	666.00
<i>Date Total</i>				259	518.00		364.34		
<i>Number of Species</i>				29					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/13/2010
River Mile: 126.40	Location: dst. Jackson Pike WWTP	Invalid Sample:
Time Fished: 2764 sec	Drainage: 1636.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	3	6.00	1.12	1.02	0.40	170.33
Black Buffalo	C	I	M	2	4.00	0.75	6.00	2.37	1,500.00
Smallmouth Buffalo	C	I	M	27	54.00	10.07	78.60	31.04	1,455.56
Quillback	C	O	M	10	20.00	3.73	14.60	5.77	730.00
River Carpsucker	C	O	M	43	86.00	16.04	65.05	25.69	756.41
Black Redhorse	R	I	S I	1	2.00	0.37	1.60	0.63	800.00
Golden Redhorse	R	I	S M	2	4.00	0.75	3.03	1.20	757.00
Northern Hog Sucker	R	I	S M	11	22.00	4.10	3.99	1.58	181.55
Smallmouth Redhorse	R	I	S M	11	22.00	4.10	12.90	5.09	586.36
Common Carp	G	O	M T	3	6.00	1.12	20.55	8.12	3,425.00
Emerald Shiner	N	I	M	3	6.00	1.12	0.02	0.01	3.67
Silver Shiner	N	I	S I	8	16.00	2.99	0.10	0.04	6.00
Rosyface Shiner	N	I	S I	1	2.00	0.37	0.00	0.00	2.00
Steelcolor Shiner	N	I	M P	5	10.00	1.87	0.03	0.01	3.00
Spotfin Shiner	N	I	M	13	26.00	4.85	0.08	0.03	3.00
Sand Shiner	N	I	M M	1	2.00	0.37	0.00	0.00	2.00
Bluntnose Minnow	N	O	C T	9	18.00	3.36	0.04	0.02	2.22
Channel Catfish	F		C	8	16.00	2.99	17.40	6.87	1,087.50
Brook Silverside		I	M M	5	10.00	1.87	0.03	0.01	2.60
Rock Bass	S	C	C	1	2.00	0.37	0.01	0.00	5.00
Smallmouth Bass	F	C	C M	11	22.00	4.10	5.00	1.98	227.36
Spotted Bass	F	C	C	2	4.00	0.75	1.15	0.45	287.50
Largemouth Bass	F	C	C	2	4.00	0.75	0.08	0.03	20.00
Green Sunfish	S	I	C T	2	4.00	0.75	0.09	0.03	22.00
Bluegill Sunfish	S	I	C P	22	44.00	8.21	0.71	0.28	16.05
Longear Sunfish	S	I	C M	17	34.00	6.34	0.65	0.26	19.24
Green Sf X Hybrid				11	22.00	4.10	1.65	0.65	75.00
Sauger	F	P	S	2	4.00	0.75	0.65	0.26	162.50
Slenderhead Darter	D	I	S R	1	2.00	0.37	0.01	0.00	4.00
Logperch	D	I	S M	14	28.00	5.22	0.50	0.20	17.79
Greenside Darter	D	I	S M	5	10.00	1.87	0.06	0.02	6.00
Banded Darter	D	I	S I	2	4.00	0.75	0.01	0.00	2.00
Sauger X Walleye	E	P		1	2.00	0.37	1.40	0.55	700.00
Freshwater Drum			M P	9	18.00	3.36	16.20	6.40	900.00
<i>Date Total</i>				268	536.00		253.21		
<i>Number of Species</i>				32					
<i>Number of Hybrids</i>				2					

Species List

Page 14

River Code: 02-001	Stream: Scioto River	Sample Date: 08/27/2009
River Mile: 126.00	Location: dst. Jackson Pike WWTP	Invalid Sample:
Time Fished: 2962 sec	Drainage: 1636.0 sq mi	Depth:
Dist Fished: 0.50 km	Basin: Scioto River	Flow: C
		Data Source: 01
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	9	18.00	1.54	2.49	0.51	138.44
Black Buffalo	C	I	M	11	22.00	1.88	28.60	5.81	1,300.00
Smallmouth Buffalo	C	I	M	39	78.00	6.68	139.86	28.42	1,793.06
Quillback	C	O	M	8	16.00	1.37	10.50	2.13	656.25
River Carpsucker	C	O	M	64	128.00	10.96	96.38	19.59	752.94
Silver Redhorse	R	I	S M	3	6.00	0.51	4.46	0.91	743.33
Black Redhorse	R	I	S I	3	6.00	0.51	3.80	0.77	633.67
Golden Redhorse	R	I	S M	8	16.00	1.37	5.82	1.18	363.88
Northern Hog Sucker	R	I	S M	68	136.00	11.64	20.10	4.08	147.79
Smallmouth Redhorse	R	I	S M	105	210.00	17.98	87.26	17.73	415.52
Common Carp	G	O	M T	5	10.00	0.86	35.00	7.11	3,500.00
River Chub	N	I	N I	5	10.00	0.86	0.10	0.02	9.80
Streamline Chub	N	I	S R	1	2.00	0.17	0.02	0.00	10.00
Suckermouth Minnow	N	I	S	2	4.00	0.34	0.01	0.00	3.50
Emerald Shiner	N	I	M	7	14.00	1.20	0.05	0.01	3.86
Rosyface Shiner	N	I	S I	1	2.00	0.17	0.00	0.00	2.00
Steelcolor Shiner	N	I	M P	13	26.00	2.23	0.12	0.02	4.46
Spotfin Shiner	N	I	M	46	92.00	7.88	0.25	0.05	2.73
Sand Shiner	N	I	M M	14	28.00	2.40	0.09	0.02	3.14
Mimic Shiner	N	I	M I	1	2.00	0.17	0.00	0.00	2.00
Bluntnose Minnow	N	O	C T	15	30.00	2.57	0.12	0.03	4.13
Central Stoneroller	N	H	N	12	24.00	2.05	0.16	0.03	6.83
Channel Catfish	F		C	14	28.00	2.40	40.04	8.14	1,430.00
Rock Bass	S	C	C	1	2.00	0.17	0.01	0.00	7.00
Smallmouth Bass	F	C	C M	12	24.00	2.05	2.38	0.48	99.25
Spotted Bass	F	C	C	2	4.00	0.34	0.77	0.16	192.50
Green Sunfish	S	I	C T	1	2.00	0.17	0.03	0.01	15.00
Bluegill Sunfish	S	I	C P	9	18.00	1.54	0.40	0.08	22.00
Longear Sunfish	S	I	C M	44	88.00	7.53	1.13	0.23	12.82
Green Sf X Bluegill Sf				11	22.00	1.88	1.03	0.21	46.82
Sauger	F	P	S	11	22.00	1.88	3.97	0.81	180.64
Slenderhead Darter	D	I	S R	1	2.00	0.17	0.01	0.00	4.00
Logperch	D	I	S M	21	42.00	3.60	0.44	0.09	10.52
Johnny Darter	D	I	C	1	2.00	0.17	0.00	0.00	1.00
Greenside Darter	D	I	S M	9	18.00	1.54	0.14	0.03	7.56
Banded Darter	D	I	S I	1	2.00	0.17	0.00	0.00	1.00
Sauger X Walleye	E	P		1	2.00	0.17	0.36	0.07	181.00
Freshwater Drum			M P	5	10.00	0.86	6.16	1.25	616.00
<i>Date Total</i>				584	1,168.00		492.08		
<i>Number of Species</i>				36					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/02/2009
River Mile: 119.90	Location: St. Rt. 665	Invalid Sample:
Time Fished: 2257 sec	Drainage: 1697.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.15	1.26	0.57	630.00
Skipjack Herring		P	M	1	2.00	0.15	0.07	0.03	33.00
Gizzard Shad		O	M	23	46.00	3.37	6.22	2.81	135.30
Black Buffalo	C	I	M	4	8.00	0.59	16.80	7.60	2,100.00
Smallmouth Buffalo	C	I	M	2	4.00	0.29	5.70	2.58	1,425.00
Quillback	C	O	M	2	4.00	0.29	3.23	1.46	807.50
River Carpsucker	C	O	M	11	22.00	1.61	16.96	7.67	770.91
Golden Redhorse	R	I	S M	3	6.00	0.44	4.46	2.01	742.67
Northern Hog Sucker	R	I	S M	59	118.00	8.64	31.29	14.15	265.15
White Sucker	W	O	S T	1	2.00	0.15	0.07	0.03	37.00
Smallmouth Redhorse	R	I	S M	56	112.00	8.20	41.10	18.59	367.00
Common Carp	G	O	M T	2	4.00	0.29	17.70	8.00	4,425.00
Streamline Chub	N	I	S R	1	2.00	0.15	0.05	0.02	23.00
Gravel Chub	N	I	S M	19	38.00	2.78	0.17	0.08	4.37
Western Blacknose Dace	N	G	S T	1	2.00	0.15	0.00	0.00	2.00
Creek Chub	N	G	N T	2	4.00	0.29	0.02	0.01	6.00
Suckermouth Minnow	N	I	S	36	72.00	5.27	0.26	0.12	3.64
Emerald Shiner	N	I	M	11	22.00	1.61	0.08	0.04	3.82
Silver Shiner	N	I	S I	2	4.00	0.29	0.04	0.02	9.50
Striped Shiner	N	I	S	2	4.00	0.29	0.01	0.00	2.00
Steelcolor Shiner	N	I	M P	7	14.00	1.02	0.07	0.03	5.00
Spotfin Shiner	N	I	M	107	214.00	15.67	0.54	0.24	2.51
Sand Shiner	N	I	M M	43	86.00	6.30	0.15	0.07	1.79
Mimic Shiner	N	I	M I	6	12.00	0.88	0.02	0.01	1.67
Bullhead Minnow	N	O	C	18	36.00	2.64	0.15	0.07	4.17
Bluntnose Minnow	N	O	C T	58	116.00	8.49	0.27	0.12	2.29
Central Stoneroller	N	H	N	56	112.00	8.20	0.53	0.24	4.77
Channel Catfish	F		C	16	32.00	2.34	25.30	11.44	790.75
Flathead Catfish	F	P	C	1	2.00	0.15	0.64	0.29	321.00
Smallmouth Bass	F	C	C M	11	22.00	1.61	4.25	1.92	193.00
Spotted Bass	F	C	C	19	38.00	2.78	4.16	1.88	109.58
Green Sunfish	S	I	C T	1	2.00	0.15	0.10	0.05	52.00
Bluegill Sunfish	S	I	C P	9	18.00	1.32	0.37	0.17	20.67
Orangespotted Sunfish	S	I	C	2	4.00	0.29	0.03	0.01	8.00
Longear Sunfish	S	I	C M	26	52.00	3.81	1.25	0.57	24.12
Green Sf X Bluegill Sf				1	2.00	0.15	0.12	0.05	58.00
Sauger	F	P	S	2	4.00	0.29	0.87	0.39	216.50
Slenderhead Darter	D	I	S R	1	2.00	0.15	0.02	0.01	10.00
Johnny Darter	D	I	C	5	10.00	0.73	0.02	0.01	1.60
Greenside Darter	D	I	S M	15	30.00	2.20	0.14	0.06	4.60
Banded Darter	D	I	S I	12	24.00	1.76	0.03	0.01	1.25
Bluebreast Darter [T]	D	I	S R	1	2.00	0.15	0.00	0.00	2.00
Tippecanoe Darter [T]	D	I	S R	2	4.00	0.29	0.00	0.00	1.00
Rainbow Darter	D	I	S M	7	14.00	1.02	0.02	0.01	1.71
Sauger X Walleye	E	P		1	2.00	0.15	1.70	0.77	850.00
Freshwater Drum			M P	16	32.00	2.34	34.88	15.77	1,090.00
Mottled Sculpin		I	C	1	2.00	0.15	0.02	0.01	8.00
<i>Date Total</i>				683	1,366.00		221.16		
<i>Number of Species</i>				45					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/07/2010
River Mile: 119.90	Location: St. Rt. 665	Invalid Sample:
Time Fished: 2303 sec	Drainage: 1697.0 sq mi	Data Source: 99
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth: 100	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	3	6.00	1.02	1.60	0.81	266.67
Gizzard Shad		O	M	26	52.00	8.84	16.20	8.15	311.54
Smallmouth Buffalo	C	I	M	12	24.00	4.08	43.60	21.94	1,816.67
Quillback	C	O	M	4	8.00	1.36	5.00	2.52	625.00
River Carpsucker	C	O	M	17	34.00	5.78	25.66	12.91	754.71
Golden Redhorse	R	I	S M	16	32.00	5.44	2.84	1.43	88.75
Northern Hog Sucker	R	I	S M	14	28.00	4.76	5.10	2.57	182.14
Spotted Sucker	R	I	S	9	18.00	3.06	0.12	0.06	6.67
Smallmouth Redhorse	R	I	S M	17	34.00	5.78	31.16	15.68	916.35
Common Carp	G	O	M T	3	6.00	1.02	24.00	12.08	4,000.00
Emerald Shiner	N	I	M	13	26.00	4.42	0.06	0.03	2.31
Steelcolor Shiner	N	I	M P	8	16.00	2.72	0.05	0.03	3.13
Spotfin Shiner	N	I	M	27	54.00	9.18	0.15	0.08	2.78
Sand Shiner	N	I	M M	2	4.00	0.68	0.00	0.00	1.00
Mimic Shiner	N	I	M I	1	2.00	0.34	0.00	0.00	1.00
Bullhead Minnow	N	O	C	11	22.00	3.74	0.08	0.04	3.64
Bluntnose Minnow	N	O	C T	7	14.00	2.38	0.03	0.01	2.00
Channel Catfish	F		C	7	14.00	2.38	15.30	7.70	1,092.86
Flathead Catfish	F	P	C	1	2.00	0.34	1.38	0.69	690.00
Black Crappie	S	I	C	1	2.00	0.34	0.28	0.14	140.00
Rock Bass	S	C	C	2	4.00	0.68	0.04	0.02	10.00
Smallmouth Bass	F	C	C M	12	24.00	4.08	0.46	0.23	19.17
Spotted Bass	F	C	C	21	42.00	7.14	4.73	2.38	112.67
Largemouth Bass	F	C	C	1	2.00	0.34	0.15	0.08	75.00
Green Sunfish	S	I	C T	2	4.00	0.68	0.08	0.04	20.00
Bluegill Sunfish	S	I	C P	20	40.00	6.80	1.88	0.95	47.00
Orangespotted Sunfish	S	I	C	9	18.00	3.06	0.08	0.04	4.67
Longear Sunfish	S	I	C M	22	44.00	7.48	1.60	0.81	36.36
Logperch	D	I	S M	1	2.00	0.34	0.04	0.02	20.00
Rainbow Darter	D	I	S M	1	2.00	0.34	0.00	0.00	2.00
Freshwater Drum			M P	4	8.00	1.36	17.02	8.57	2,127.50
<i>Date Total</i>				294	588.00		198.70		
<i>Number of Species</i>				31					
<i>Number of Hybrids</i>				0					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/06/2010
River Mile: 117.70	Location: upst. Big Walnut Creek	Invalid Sample:
Time Fished: 2386 sec	Drainage: 1709.0 sq mi	Data Source: 99
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth: 90 cm	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	7	14.00	1.94	1.72	0.45	122.86
Smallmouth Buffalo	C	I	M	21	42.00	5.83	77.42	20.32	1,843.33
Quillback	C	O	M	4	8.00	1.11	4.28	1.12	535.00
River Carpsucker	C	O	M	24	48.00	6.67	40.74	10.69	848.75
Silver Redhorse	R	I	S M	7	14.00	1.94	21.82	5.73	1,558.57
Golden Redhorse	R	I	S M	39	78.00	10.83	39.22	10.29	502.82
Northern Hog Sucker	R	I	S M	17	34.00	4.72	4.69	1.23	137.94
Spotted Sucker	R	I	S	1	2.00	0.28	0.02	0.01	10.00
Smallmouth Redhorse	R	I	S M	27	54.00	7.50	34.46	9.05	638.15
Common Carp	G	O	M T	9	18.00	2.50	72.20	18.95	4,011.11
Emerald Shiner	N	I	M	8	16.00	2.22	0.02	0.01	1.50
Steelcolor Shiner	N	I	M P	5	10.00	1.39	0.04	0.01	4.40
Spotfin Shiner	N	I	M	37	74.00	10.28	0.25	0.07	3.38
Mimic Shiner	N	I	M I	10	20.00	2.78	0.04	0.01	2.00
Bullhead Minnow	N	O	C	7	14.00	1.94	0.04	0.01	2.86
Fathead Minnow	N	O	C T	1	2.00	0.28	0.02	0.01	10.00
Bluntnose Minnow	N	O	C T	29	58.00	8.06	0.12	0.03	2.07
Channel Catfish	F		C	8	16.00	2.22	27.98	7.34	1,748.75
Flathead Catfish	F	P	C	5	10.00	1.39	16.32	4.28	1,632.00
Rock Bass	S	C	C	1	2.00	0.28	0.40	0.10	200.00
Smallmouth Bass	F	C	C M	8	16.00	2.22	0.98	0.26	61.25
Spotted Bass	F	C	C	12	24.00	3.33	3.01	0.79	125.42
Green Sunfish	S	I	C T	1	2.00	0.28	0.04	0.01	20.00
Bluegill Sunfish	S	I	C P	9	18.00	2.50	0.46	0.12	25.56
Longear Sunfish	S	I	C M	33	66.00	9.17	1.44	0.38	21.82
Sauger	F	P	S	4	8.00	1.11	2.59	0.68	323.75
Freshwater Drum			M P	26	52.00	7.22	30.64	8.04	589.23
<i>Date Total</i>				360	720.00		380.97		
<i>Number of Species</i>				27					
<i>Number of Hybrids</i>				0					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/03/2009
River Mile: 117.60	Location: upst. Big Walnut Creek	Invalid Sample:
Time Fished: 2283 sec	Drainage: 1709.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	19	38.00	3.57	5.20	3.56	136.74
Black Buffalo	C	I	M	2	4.00	0.38	8.25	5.65	2,062.50
Quillback	C	O	M	1	2.00	0.19	1.45	0.99	723.00
River Carpsucker	C	O	M	10	20.00	1.88	18.20	12.46	910.00
Silver Redhorse	R	I	S M	1	2.00	0.19	1.90	1.30	950.00
Golden Redhorse	R	I	S M	10	20.00	1.88	11.79	8.08	589.70
Northern Hog Sucker	R	I	S M	38	76.00	7.14	7.83	5.36	103.05
Smallmouth Redhorse	R	I	S M	35	70.00	6.58	34.58	23.68	494.05
Common Carp	G	O	M T	1	2.00	0.19	5.65	3.87	2,825.00
Streamline Chub	N	I	S R	5	10.00	0.94	0.06	0.04	5.80
Gravel Chub	N	I	S M	26	52.00	4.89	0.14	0.09	2.62
Emerald Shiner	N	I	M	7	14.00	1.32	0.05	0.03	3.67
Silver Shiner	N	I	S I	17	34.00	3.20	0.18	0.12	5.29
Steelcolor Shiner	N	I	M P	27	54.00	5.08	0.14	0.09	2.52
Spotfin Shiner	N	I	M	110	220.00	20.68	0.56	0.38	2.55
Sand Shiner	N	I	M M	8	16.00	1.50	0.03	0.02	1.75
Mimic Shiner	N	I	M I	7	14.00	1.32	0.03	0.02	1.86
Bullhead Minnow	N	O	C	5	10.00	0.94	0.03	0.02	3.40
Bluntnose Minnow	N	O	C T	48	96.00	9.02	0.17	0.11	1.72
Central Stoneroller	N	H	N	1	2.00	0.19	0.01	0.00	3.00
Channel Catfish	F		C	8	16.00	1.50	23.65	16.19	1,478.13
Brook Silverside		I	M M	8	16.00	1.50	0.04	0.03	2.63
White Bass	F	P	M	1	2.00	0.19	0.05	0.03	25.00
Smallmouth Bass	F	C	C M	16	32.00	3.01	4.42	3.03	138.13
Spotted Bass	F	C	C	21	42.00	3.95	3.02	2.07	71.90
Largemouth Bass	F	C	C	3	6.00	0.56	0.07	0.05	11.67
Green Sunfish	S	I	C T	3	6.00	0.56	0.10	0.07	16.00
Bluegill Sunfish	S	I	C P	4	8.00	0.75	0.05	0.03	6.00
Orangespotted Sunfish	S	I	C	4	8.00	0.75	0.08	0.05	9.50
Longear Sunfish	S	I	C M	66	132.00	12.41	1.83	1.25	13.86
Sauger	F	P	S	3	6.00	0.56	1.48	1.01	246.00
Slenderhead Darter	D	I	S R	2	4.00	0.38	0.02	0.01	4.00
Logperch	D	I	S M	3	6.00	0.56	0.03	0.02	4.33
Johnny Darter	D	I	C	2	4.00	0.38	0.01	0.00	1.50
Greenside Darter	D	I	S M	3	6.00	0.56	0.02	0.02	4.00
Banded Darter	D	I	S I	2	4.00	0.38	0.01	0.01	2.00
Sauger X Walleye	E	P		1	2.00	0.19	4.05	2.77	2,025.00
Freshwater Drum			M P	4	8.00	0.75	10.90	7.46	1,362.50
<i>Date Total</i>				532	1,064.00		146.04		
<i>Number of Species</i>				37					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/03/2009
River Mile: 116.30	Location: 1.0 mi. upst. St. Rt. 762	Invalid Sample:
Time Fished: 2186 sec	Drainage: 2267.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.17	1.90	0.45	950.00
Gizzard Shad		O	M	19	38.00	3.26	5.52	1.30	145.21
Black Buffalo	C	I	M	34	68.00	5.83	161.00	37.97	2,367.65
Smallmouth Buffalo	C	I	M	16	32.00	2.74	54.80	12.92	1,712.50
Quillback	C	O	M	1	2.00	0.17	3.60	0.85	1,800.00
River Carpsucker	C	O	M	4	8.00	0.69	6.50	1.53	812.50
Golden Redhorse	R	I	S M	15	30.00	2.57	11.78	2.78	392.80
River Redhorse [S]	R	I	S I	2	4.00	0.34	5.80	1.37	1,450.00
Northern Hog Sucker	R	I	S M	43	86.00	7.38	21.89	5.16	254.56
Smallmouth Redhorse	R	I	S M	65	130.00	11.15	63.05	14.87	485.00
Streamline Chub	N	I	S R	5	10.00	0.86	0.05	0.01	5.00
Gravel Chub	N	I	S M	7	14.00	1.20	0.07	0.02	5.00
Suckermouth Minnow	N	I	S	17	34.00	2.92	0.17	0.04	5.00
Emerald Shiner	N	I	M	9	18.00	1.54	0.06	0.01	3.14
Rosyface Shiner	N	I	S I	5	10.00	0.86	0.02	0.00	2.00
Steelcolor Shiner	N	I	M P	20	40.00	3.43	0.13	0.03	3.15
Spotfin Shiner	N	I	M	91	182.00	15.61	0.58	0.14	3.16
Sand Shiner	N	I	M M	6	12.00	1.03	0.02	0.01	2.00
Mimic Shiner	N	I	M I	2	4.00	0.34	0.01	0.00	2.00
Bullhead Minnow	N	O	C	7	14.00	1.20	0.05	0.01	3.43
Bluntnose Minnow	N	O	C T	16	32.00	2.74	0.08	0.02	2.60
Central Stoneroller	N	H	N	45	90.00	7.72	0.71	0.17	7.93
Channel Catfish	F		C	12	24.00	2.06	18.14	4.28	755.75
Stonecat Madtom		I	C I	1	2.00	0.17	0.06	0.02	32.00
Brook Silverside		I	M M	15	30.00	2.57	0.07	0.02	2.21
White Crappie	S	I	C	1	2.00	0.17	0.45	0.11	226.00
Smallmouth Bass	F	C	C M	12	24.00	2.06	7.54	1.78	314.33
Spotted Bass	F	C	C	6	12.00	1.03	2.46	0.58	204.83
Largemouth Bass	F	C	C	1	2.00	0.17	0.04	0.01	19.00
Green Sunfish	S	I	C T	2	4.00	0.34	0.07	0.02	17.50
Bluegill Sunfish	S	I	C P	8	16.00	1.37	0.84	0.20	52.38
Orangespotted Sunfish	S	I	C	1	2.00	0.17	0.01	0.00	5.00
Longear Sunfish	S	I	C M	38	76.00	6.52	1.36	0.32	17.95
Green Sf X Bluegill Sf				2	4.00	0.34	0.20	0.05	49.00
Sauger	F	P	S	1	2.00	0.17	0.58	0.14	288.00
Logperch	D	I	S M	5	10.00	0.86	0.10	0.02	9.80
Greenside Darter	D	I	S M	8	16.00	1.37	0.10	0.02	6.25
Banded Darter	D	I	S I	15	30.00	2.57	0.07	0.02	2.33
Tippecanoe Darter [T]	D	I	S R	2	4.00	0.34	0.01	0.00	1.50
Sauger X Walleye	E	P		1	2.00	0.17	0.58	0.14	290.00
Freshwater Drum			M P	22	44.00	3.77	53.60	12.64	1,218.18
<i>Date Total</i>				583	1,166.00		424.06		
<i>Number of Species</i>				39					
<i>Number of Hybrids</i>				2					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/15/2009
River Mile: 109.40	Location: St. Rt. 316	Invalid Sample:
Time Fished: 3089 sec	Drainage: 2311.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	14	28.00	3.26	7.60	3.30	271.43
Black Buffalo	C	I	M	9	18.00	2.09	32.20	13.98	1,788.89
Smallmouth Buffalo	C	I	M	7	14.00	1.63	22.98	9.98	1,641.67
Quillback	C	O	M	2	4.00	0.47	3.00	1.30	750.00
River Carpsucker	C	O	M	4	8.00	0.93	5.60	2.43	700.00
Highfin Carpsucker	C	O	M	1	2.00	0.23	0.64	0.28	318.00
Silver Redhorse	R	I	S M	1	2.00	0.23	4.90	2.13	2,450.00
Golden Redhorse	R	I	S M	10	20.00	2.33	8.97	3.90	448.70
River Redhorse [S]	R	I	S I	2	4.00	0.47	6.20	2.69	1,550.00
Northern Hog Sucker	R	I	S M	23	46.00	5.35	14.40	6.25	313.04
Smallmouth Redhorse	R	I	S M	29	58.00	6.74	30.22	13.12	521.05
Common Carp	G	O	M T	4	8.00	0.93	35.00	15.20	4,375.00
Streamline Chub	N	I	S R	1	2.00	0.23	0.01	0.00	5.00
Gravel Chub	N	I	S M	30	60.00	6.98	0.23	0.10	3.80
Suckermouth Minnow	N	I	S	52	104.00	12.09	0.53	0.23	5.10
Emerald Shiner	N	I	M	15	30.00	3.49	0.11	0.05	3.60
Rosyface Shiner	N	I	S I	1	2.00	0.23	0.01	0.00	3.00
Spotfin Shiner	N	I	M	25	50.00	5.81	0.21	0.09	4.28
Sand Shiner	N	I	M M	24	48.00	5.58	0.10	0.04	2.04
Mimic Shiner	N	I	M I	6	12.00	1.40	0.02	0.01	1.50
Bullhead Minnow	N	O	C	3	6.00	0.70	0.02	0.01	3.00
Bluntnose Minnow	N	O	C T	5	10.00	1.16	0.05	0.02	4.80
Central Stoneroller	N	H	N	46	92.00	10.70	0.43	0.19	4.65
Channel Catfish	F		C	9	18.00	2.09	23.50	10.20	1,305.56
Flathead Catfish	F	P	C	1	2.00	0.23	12.00	5.21	6,000.00
Brook Silverside		I	M M	2	4.00	0.47	0.02	0.01	5.00
Rock Bass	S	C	C	1	2.00	0.23	0.03	0.01	17.00
Smallmouth Bass	F	C	C M	4	8.00	0.93	2.45	1.07	306.75
Spotted Bass	F	C	C	29	58.00	6.74	3.91	1.70	67.41
Green Sunfish	S	I	C T	1	2.00	0.23	0.07	0.03	36.00
Bluegill Sunfish	S	I	C P	4	8.00	0.93	0.14	0.06	17.75
Longear Sunfish	S	I	C M	37	74.00	8.60	1.00	0.43	13.51
Sauger	F	P	S	1	2.00	0.23	0.58	0.25	290.00
Slenderhead Darter	D	I	S R	1	2.00	0.23	0.01	0.01	6.00
Johnny Darter	D	I	C	2	4.00	0.47	0.01	0.00	2.00
Greenside Darter	D	I	S M	2	4.00	0.47	0.01	0.01	3.00
Banded Darter	D	I	S I	6	12.00	1.40	0.02	0.01	1.67
Variagate Darter	D	I	S I	1	2.00	0.23	0.01	0.00	3.00
Tippecanoe Darter [T]	D	I	S R	1	2.00	0.23	0.00	0.00	1.00
Rainbow Darter	D	I	S M	5	10.00	1.16	0.03	0.01	3.00
Sauger X Walleye	E	P		1	2.00	0.23	0.31	0.13	154.00
Freshwater Drum			M P	8	16.00	1.86	12.80	5.56	800.00
<i>Date Total</i>				430	860.00		230.33		
<i>Number of Species</i>				41					
<i>Number of Hybrids</i>				1					

Species List

Page 21

River Code: 02-001	Stream: Scioto River	Sample Date: 09/14/2010
River Mile: 109.20	Location: dst. St. Rt. 316	Invalid Sample:
Time Fished: 2761 sec	Drainage: 2311.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.25	1.00	0.70	500.00
Gizzard Shad		O	M	12	24.00	3.02	3.80	2.68	158.50
Black Buffalo	C	I	M	2	4.00	0.50	8.60	6.05	2,150.00
Smallmouth Buffalo	C	I	M	5	10.00	1.26	21.70	15.26	2,170.00
Quillback	C	O	M	3	6.00	0.75	5.20	3.66	866.67
River Carpsucker	C	O	M	9	18.00	2.26	14.40	10.13	800.00
Golden Redhorse	R	I	S M	10	20.00	2.51	9.84	6.92	491.80
River Redhorse [S]	R	I	S I	2	4.00	0.50	3.54	2.49	886.00
Northern Hog Sucker	R	I	S M	26	52.00	6.53	15.74	11.07	302.68
Smallmouth Redhorse	R	I	S M	17	34.00	4.27	21.50	15.12	632.35
Common Carp	G	O	M T	1	2.00	0.25	4.60	3.24	2,300.00
Bigeye Chub	N	I	S I	1	2.00	0.25	0.00	0.00	2.00
Streamline Chub	N	I	S R	1	2.00	0.25	0.01	0.01	4.00
Gravel Chub	N	I	S M	37	74.00	9.30	0.44	0.31	5.95
Suckermouth Minnow	N	I	S	1	2.00	0.25	0.00	0.00	2.00
Emerald Shiner	N	I	M	19	38.00	4.77	0.10	0.07	2.63
Rosyface Shiner	N	I	S I	2	4.00	0.50	0.00	0.00	1.00
Steelcolor Shiner	N	I	M P	42	84.00	10.55	0.27	0.19	3.26
Spotfin Shiner	N	I	M	33	66.00	8.29	0.21	0.15	3.24
Sand Shiner	N	I	M M	62	124.00	15.58	0.20	0.14	1.58
Mimic Shiner	N	I	M I	3	6.00	0.75	0.01	0.01	1.67
Bullhead Minnow	N	O	C	2	4.00	0.50	0.01	0.00	1.50
Bluntnose Minnow	N	O	C T	31	62.00	7.79	0.14	0.10	2.26
Central Stoneroller	N	H	N	3	6.00	0.75	0.03	0.02	5.00
Channel Catfish	F		C	2	4.00	0.50	3.80	2.67	950.00
Smallmouth Bass	F	C	C M	14	28.00	3.52	1.02	0.72	36.43
Spotted Bass	F	C	C	12	24.00	3.02	3.78	2.66	157.67
Bluegill Sunfish	S	I	C P	4	8.00	1.01	0.22	0.16	28.00
Longear Sunfish	S	I	C M	20	40.00	5.03	1.07	0.76	26.85
Green Sf X Hybrid				1	2.00	0.25	0.04	0.03	20.00
Sauger	F	P	S	1	2.00	0.25	0.65	0.46	325.00
Slenderhead Darter	D	I	S R	3	6.00	0.75	0.01	0.01	2.33
Logperch	D	I	S M	3	6.00	0.75	0.05	0.03	8.00
Banded Darter	D	I	S I	1	2.00	0.25	0.00	0.00	2.00
Sauger X Walleye	E	P		2	4.00	0.50	1.15	0.81	287.50
Freshwater Drum			M P	10	20.00	2.51	19.00	13.37	950.00
<i>Date Total</i>				398	796.00		142.16		
<i>Number of Species</i>				34					
<i>Number of Hybrids</i>				2					

Species List

Page 22

River Code: 02-001	Stream: Scioto River	Sample Date: 09/15/2009
River Mile: 105.30	Location: 0.8 mi. dst. Walnut Creek	Invalid Sample:
Time Fished: 2394 sec	Drainage: 2615.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.31	0.90	0.40	450.00
Gizzard Shad		O	M	6	12.00	1.88	3.44	1.53	286.33
Black Buffalo	C	I	M	3	6.00	0.94	15.00	6.69	2,500.00
Smallmouth Buffalo	C	I	M	13	26.00	4.06	53.08	23.66	2,041.67
Quillback	C	O	M	4	8.00	1.25	8.10	3.61	1,012.50
River Carpsucker	C	O	M	8	16.00	2.50	11.40	5.08	712.50
Silver Redhorse	R	I	S M	2	4.00	0.63	3.95	1.76	986.50
Golden Redhorse	R	I	S M	4	8.00	1.25	3.62	1.61	452.50
Northern Hog Sucker	R	I	S M	15	30.00	4.69	4.82	2.15	160.67
Smallmouth Redhorse	R	I	S M	30	60.00	9.38	31.67	14.12	527.78
Common Carp	G	O	M T	1	2.00	0.31	7.60	3.39	3,800.00
Gravel Chub	N	I	S M	29	58.00	9.06	0.28	0.13	4.86
Suckermouth Minnow	N	I	S	2	4.00	0.63	0.02	0.01	6.00
Emerald Shiner	N	I	M	6	12.00	1.88	0.05	0.02	4.00
Steelcolor Shiner	N	I	M P	10	20.00	3.13	0.07	0.03	3.40
Spotfin Shiner	N	I	M	26	52.00	8.13	0.20	0.09	3.88
Sand Shiner	N	I	M M	21	42.00	6.56	0.09	0.04	2.20
Bullhead Minnow	N	O	C	32	64.00	10.00	0.24	0.11	3.81
Bluntnose Minnow	N	O	C T	3	6.00	0.94	0.01	0.01	2.33
Central Stoneroller	N	H	N	1	2.00	0.31	0.01	0.00	4.00
Channel Catfish	F		C	12	24.00	3.75	20.10	8.96	837.50
Flathead Catfish	F	P	C	2	4.00	0.63	19.50	8.69	4,875.00
White Crappie	S	I	C	1	2.00	0.31	0.07	0.03	36.00
Rock Bass	S	C	C	1	2.00	0.31	0.19	0.08	93.00
Smallmouth Bass	F	C	C M	4	8.00	1.25	0.74	0.33	92.75
Spotted Bass	F	C	C	10	20.00	3.13	2.35	1.05	117.60
Largemouth Bass	F	C	C	2	4.00	0.63	0.08	0.04	20.00
Bluegill Sunfish	S	I	C P	3	6.00	0.94	0.25	0.11	41.00
Longear Sunfish	S	I	C M	3	6.00	0.94	0.13	0.06	22.00
Sauger	F	P	S	5	10.00	1.56	2.14	0.95	214.20
Dusky Darter	D	I	S M	2	4.00	0.63	0.01	0.01	3.50
Blackside Darter	D	I	S	1	2.00	0.31	0.01	0.00	5.00
Slenderhead Darter	D	I	S R	9	18.00	2.81	0.13	0.06	7.44
Logperch	D	I	S M	3	6.00	0.94	0.19	0.08	31.67
Greenside Darter	D	I	S M	6	12.00	1.88	0.07	0.03	6.00
Banded Darter	D	I	S I	3	6.00	0.94	0.01	0.00	1.67
Tippecanoe Darter [T]	D	I	S R	1	2.00	0.31	0.00	0.00	1.00
Rainbow Darter	D	I	S M	1	2.00	0.31	0.00	0.00	2.00
Sauger X Walleye	E	P		1	2.00	0.31	1.64	0.73	820.00
Freshwater Drum			M P	33	66.00	10.31	32.13	14.32	486.84
<i>Date Total</i>				320	640.00		224.31		
<i>Number of Species</i>				39					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 08/02/2010
River Mile: 102.00	Location: Commercial Point Rd.	Invalid Sample:
Time Fished: 2505 sec	Drainage: 2638.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	6	12.00	2.54	1.92	1.57	160.00
River Carpsucker	C	O	M	3	6.00	1.27	4.70	3.85	783.33
Silver Redhorse	R	I	S M	3	6.00	1.27	5.20	4.26	866.67
Black Redhorse	R	I	S I	1	2.00	0.42	1.55	1.27	775.00
Golden Redhorse	R	I	S M	5	10.00	2.12	6.00	4.92	600.00
River Redhorse [S]	R	I	S I	2	4.00	0.85	8.70	7.13	2,175.00
Northern Hog Sucker	R	I	S M	17	34.00	7.20	3.78	3.09	111.06
Smallmouth Redhorse	R	I	S M	41	82.00	17.37	41.54	34.04	506.58
Streamline Chub	N	I	S R	2	4.00	0.85	0.05	0.04	12.00
Gravel Chub	N	I	S M	13	26.00	5.51	0.14	0.11	5.25
Suckermouth Minnow	N	I	S	3	6.00	1.27	0.03	0.02	4.33
Emerald Shiner	N	I	M	2	4.00	0.85	0.01	0.00	1.50
Steelcolor Shiner	N	I	M P	11	22.00	4.66	0.08	0.07	3.64
Spotfin Shiner	N	I	M	17	34.00	7.20	0.07	0.06	2.12
Sand Shiner	N	I	M M	17	34.00	7.20	0.05	0.04	1.53
Bullhead Minnow	N	O	C	1	2.00	0.42	0.00	0.00	2.00
Bluntnose Minnow	N	O	C T	2	4.00	0.85	0.01	0.01	2.00
Central Stoneroller	N	H	N	17	34.00	7.20	0.11	0.09	3.14
Channel Catfish	F		C	9	18.00	3.81	10.71	8.78	595.22
Flathead Catfish	F	P	C	1	2.00	0.42	0.00	0.00	2.00
Smallmouth Bass	F	C	C M	4	8.00	1.69	2.65	2.17	331.25
Spotted Bass	F	C	C	6	12.00	2.54	0.52	0.43	43.33
Largemouth Bass	F	C	C	1	2.00	0.42	0.05	0.04	25.00
Green Sunfish	S	I	C T	1	2.00	0.42	0.02	0.02	11.00
Longear Sunfish	S	I	C M	5	10.00	2.12	0.24	0.19	23.60
Sauger	F	P	S	3	6.00	1.27	2.00	1.64	333.33
Slenderhead Darter	D	I	S R	3	6.00	1.27	0.02	0.02	3.33
Logperch	D	I	S M	1	2.00	0.42	0.01	0.00	3.00
Greenside Darter	D	I	S M	14	28.00	5.93	0.13	0.10	4.57
Banded Darter	D	I	S I	4	8.00	1.69	0.01	0.01	1.25
Bluebreast Darter [T]	D	I	S R	5	10.00	2.12	0.04	0.03	3.60
Sauger X Walleye	E	P		4	8.00	1.69	13.60	11.15	1,700.00
Freshwater Drum			M P	12	24.00	5.08	18.10	14.83	754.17
<i>Date Total</i>				236	472.00		122.02		
<i>Number of Species</i>				32					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/14/2010
River Mile: 102.00	Location: Commercial Point Rd.	Invalid Sample:
Time Fished: 2706 sec	Drainage: 2638.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.40	1.00	0.64	500.00
Skipjack Herring		P	M	2	4.00	0.80	1.20	0.77	300.00
Gizzard Shad		O	M	8	16.00	3.20	3.80	2.44	237.50
Black Buffalo	C	I	M	1	2.00	0.40	4.90	3.15	2,450.00
Smallmouth Buffalo	C	I	M	1	2.00	0.40	2.20	1.42	1,100.00
River Carpsucker	C	O	M	8	16.00	3.20	12.57	8.09	785.71
Black Redhorse	R	I	S I	4	8.00	1.60	6.55	4.21	818.75
Golden Redhorse	R	I	S M	17	34.00	6.80	11.72	7.54	344.71
River Redhorse [S]	R	I	S I	1	2.00	0.40	6.00	3.86	3,000.00
Northern Hog Sucker	R	I	S M	5	10.00	2.00	1.40	0.90	140.00
Smallmouth Redhorse	R	I	S M	67	134.00	26.80	69.70	44.84	520.16
Streamline Chub	N	I	S R	1	2.00	0.40	0.02	0.01	10.00
Gravel Chub	N	I	S M	1	2.00	0.40	0.02	0.01	8.00
Emerald Shiner	N	I	M	14	28.00	5.60	0.07	0.05	2.50
Steelcolor Shiner	N	I	M P	13	26.00	5.20	0.07	0.05	2.77
Spotfin Shiner	N	I	M	13	26.00	5.20	0.07	0.05	2.77
Sand Shiner	N	I	M M	5	10.00	2.00	0.02	0.01	2.20
Bullhead Minnow	N	O	C	6	12.00	2.40	0.02	0.01	1.67
Bluntnose Minnow	N	O	C T	6	12.00	2.40	0.02	0.02	2.00
Central Stoneroller	N	H	N	2	4.00	0.80	0.01	0.01	2.50
Channel Catfish	F		C	2	4.00	0.80	8.00	5.15	2,000.00
Flathead Catfish	F	P	C	1	2.00	0.40	0.30	0.19	150.00
White Crappie	S	I	C	1	2.00	0.40	0.15	0.10	75.00
Smallmouth Bass	F	C	C M	9	18.00	3.60	2.87	1.85	159.56
Spotted Bass	F	C	C	7	14.00	2.80	1.25	0.80	89.29
Largemouth Bass	F	C	C	2	4.00	0.80	0.28	0.18	71.00
Green Sunfish	S	I	C T	4	8.00	1.60	0.08	0.05	10.00
Bluegill Sunfish	S	I	C P	6	12.00	2.40	0.58	0.37	48.33
Longear Sunfish	S	I	C M	5	10.00	2.00	0.18	0.12	18.40
Green Sf X Hybrid				1	2.00	0.40	0.02	0.01	8.00
Sauger	F	P	S	2	4.00	0.80	1.10	0.71	275.00
Slenderhead Darter	D	I	S R	8	16.00	3.20	0.03	0.02	2.00
Logperch	D	I	S M	4	8.00	1.60	0.12	0.08	15.00
Greenside Darter	D	I	S M	3	6.00	1.20	0.02	0.01	3.67
Banded Darter	D	I	S I	4	8.00	1.60	0.02	0.01	2.00
Bluebreast Darter [T]	D	I	S R	1	2.00	0.40	0.01	0.00	3.00
Sauger X Walleye	E	P		2	4.00	0.80	7.80	5.02	1,950.00
Freshwater Drum			M P	12	24.00	4.80	11.25	7.24	468.75
<i>Date Total</i>				250	500.00		155.43		
<i>Number of Species</i>				36					
<i>Number of Hybrids</i>				2					

Species List

Page 25

River Code: 02-001	Stream: Scioto River	Sample Date: 08/26/2009
River Mile: 100.00	Location: upst. U.S. Rt. 22 opposite Hargus Creek	Invalid Sample:
Time Fished: 3094 sec	Drainage: 3217.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Depth: Flow: C
		Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	38	76.00	5.70	11.17	6.86	146.97
Black Buffalo	C	I	M	5	10.00	0.75	15.65	9.62	1,565.00
Smallmouth Buffalo	C	I	M	5	10.00	0.75	19.10	11.73	1,910.00
Quillback	C	O	M	1	2.00	0.15	1.12	0.69	560.00
River Carpsucker	C	O	M	3	6.00	0.45	5.10	3.13	850.00
Silver Redhorse	R	I	S M	1	2.00	0.15	5.20	3.19	2,600.00
Black Redhorse	R	I	S I	3	6.00	0.45	2.77	1.70	461.67
Golden Redhorse	R	I	S M	12	24.00	1.80	3.85	2.36	160.25
Northern Hog Sucker	R	I	S M	70	140.00	10.49	30.63	18.82	218.81
Spotted Sucker	R	I	S	2	4.00	0.30	0.08	0.05	20.00
Smallmouth Redhorse	R	I	S M	39	78.00	5.85	36.24	22.27	464.60
Common Carp	G	O	M T	3	6.00	0.45	14.05	8.63	2,341.67
Streamline Chub	N	I	S R	3	6.00	0.45	0.03	0.02	5.33
Gravel Chub	N	I	S M	53	106.00	7.95	0.43	0.26	4.04
Creek Chub	N	G	N T	1	2.00	0.15	0.00	0.00	2.00
Suckermouth Minnow	N	I	S	5	10.00	0.75	0.07	0.04	6.80
Emerald Shiner	N	I	M	28	56.00	4.20	0.15	0.09	2.71
Steelcolor Shiner	N	I	M P	10	20.00	1.50	0.05	0.03	2.30
Spotfin Shiner	N	I	M	84	168.00	12.59	0.45	0.28	2.67
Sand Shiner	N	I	M M	36	72.00	5.40	0.10	0.06	1.44
Bullhead Minnow	N	O	C	12	24.00	1.80	0.14	0.09	6.00
Bluntnose Minnow	N	O	C T	61	122.00	9.15	0.30	0.19	2.49
Central Stoneroller	N	H	N	35	70.00	5.25	0.44	0.27	6.28
Channel Catfish	F		C	2	4.00	0.30	3.75	2.30	937.50
Rock Bass	S	C	C	1	2.00	0.15	0.21	0.13	104.00
Smallmouth Bass	F	C	C M	5	10.00	0.75	1.56	0.96	156.00
Spotted Bass	F	C	C	26	52.00	3.90	2.71	1.66	52.08
Green Sunfish	S	I	C T	1	2.00	0.15	0.10	0.06	48.00
Bluegill Sunfish	S	I	C P	8	16.00	1.20	0.60	0.37	37.25
Longear Sunfish	S	I	C M	16	32.00	2.40	0.50	0.31	15.75
Sauger	F	P	S	1	2.00	0.15	0.47	0.29	235.00
Logperch	D	I	S M	1	2.00	0.15	0.09	0.06	47.00
Greenside Darter	D	I	S M	60	120.00	9.00	0.31	0.19	2.59
Banded Darter	D	I	S I	10	20.00	1.50	0.06	0.04	3.10
Variegated Darter	D	I	S I	5	10.00	0.75	0.03	0.02	2.80
Bluebreast Darter [T]	D	I	S R	3	6.00	0.45	0.02	0.01	3.33
Tippecanoe Darter [T]	D	I	S R	2	4.00	0.30	0.01	0.00	1.50
Rainbow Darter	D	I	S M	10	20.00	1.50	0.03	0.02	1.63
Sauger X Walleye	E	P		1	2.00	0.15	0.44	0.27	220.00
Freshwater Drum			M P	5	10.00	0.75	4.75	2.92	475.00
<i>Date Total</i>				667	1,334.00		162.76		
<i>Number of Species</i>				39					
<i>Number of Hybrids</i>				1					

Species List

Page 26

River Code: 02-001	Stream: Scioto River	Sample Date: 09/23/2010
River Mile: 100.00	Location: upst. U.S. Rt. 22 opposite Hargus Creek	Invalid Sample:
Time Fished: 3691 sec	Drainage: 3217.0 sq mi	Data Source: 99
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M	8	16.00	1.31	3.86	2.06	241.25
Muskellunge [S]	F	P	M	1	2.00	0.16	14.40	7.70	7,200.00
Smallmouth Buffalo	C	I	M	5	10.00	0.82	17.96	9.60	1,796.00
River Carpsucker	C	O	M	1	2.00	0.16	1.12	0.60	560.00
Silver Redhorse	R	I	S M	2	4.00	0.33	10.00	5.35	2,500.00
Golden Redhorse	R	I	S M	18	36.00	2.94	16.82	8.99	467.22
River Redhorse [S]	R	I	S I	2	4.00	0.33	19.40	10.37	4,850.00
Northern Hog Sucker	R	I	S M	47	94.00	7.67	16.62	8.89	176.81
Spotted Sucker	R	I	S	2	4.00	0.33	0.03	0.02	7.50
Smallmouth Redhorse	R	I	S M	26	52.00	4.24	24.78	13.25	476.58
Common Carp	G	O	M T	3	6.00	0.49	18.20	9.73	3,033.33
Bigeye Chub	N	I	S I	1	2.00	0.16	0.00	0.00	2.00
Gravel Chub	N	I	S M	5	10.00	0.82	0.03	0.01	2.60
Suckermouth Minnow	N	I	S	4	8.00	0.65	0.03	0.02	4.25
Emerald Shiner	N	I	M	26	52.00	4.24	0.10	0.05	1.88
Silver Shiner	N	I	S I	2	4.00	0.33	0.04	0.02	9.50
Steelcolor Shiner	N	I	M P	5	10.00	0.82	0.03	0.02	3.20
Spotfin Shiner	N	I	M	107	214.00	17.46	0.18	0.10	0.84
Sand Shiner	N	I	M M	43	86.00	7.01	0.10	0.05	1.16
Bullhead Minnow	N	O	C	8	16.00	1.31	0.02	0.01	1.50
Bluntnose Minnow	N	O	C T	17	34.00	2.77	0.05	0.02	1.35
Central Stoneroller	N	H	N	142	284.00	23.16	1.41	0.75	4.96
Channel Catfish	F		C	6	12.00	0.98	13.58	7.26	1,131.67
White Bass	F	P	M	1	2.00	0.16	0.82	0.44	410.00
White Crappie	S	I	C	5	10.00	0.82	0.95	0.51	95.00
Black Crappie	S	I	C	3	6.00	0.49	1.40	0.75	233.33
Smallmouth Bass	F	C	C M	11	22.00	1.79	6.98	3.73	317.27
Spotted Bass	F	C	C	20	40.00	3.26	5.57	2.98	139.35
Green Sunfish	S	I	C T	11	22.00	1.79	0.28	0.15	12.73
Bluegill Sunfish	S	I	C P	10	20.00	1.63	0.36	0.19	18.00
Longear Sunfish	S	I	C M	30	60.00	4.89	0.74	0.39	12.30
Sauger	F	P	S	3	6.00	0.49	1.98	1.06	330.00
Logperch	D	I	S M	1	2.00	0.16	0.03	0.01	14.00
Greenside Darter	D	I	S M	5	10.00	0.82	0.03	0.02	3.40
Banded Darter	D	I	S I	8	16.00	1.31	0.02	0.01	1.13
Variagate Darter	D	I	S I	10	20.00	1.63	0.05	0.03	2.60
Tippecanoe Darter [T]	D	I	S R	3	6.00	0.49	0.00	0.00	0.67
Rainbow Darter	D	I	S M	1	2.00	0.16	0.00	0.00	1.00
Sauger X Walleye	E	P		2	4.00	0.33	1.78	0.95	445.00
Freshwater Drum			M P	8	16.00	1.31	7.26	3.88	453.75
<i>Date Total</i>				613	1,226.00		187.02		
<i>Number of Species</i>				39					
<i>Number of Hybrids</i>				1					

River Code: 02-001	Stream: Scioto River	Sample Date: 09/23/2010
River Mile: 99.70	Location: upst. Smurfit 002	Invalid Sample:
Time Fished: 3020 sec	Drainage: 3218.0 sq mi	Data Source: 01
Dist Fished: 0.50 km	Basin: Scioto River	Sampler Type: A
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Longnose Gar		P	M	1	2.00	0.33	0.70	0.63	350.00
Gizzard Shad		O	M	7	14.00	2.31	3.25	2.91	232.14
Black Buffalo	C	I	M	2	4.00	0.66	8.30	7.42	2,075.00
Smallmouth Buffalo	C	I	M	3	6.00	0.99	12.55	11.22	2,091.67
Quillback	C	O	M	2	4.00	0.66	3.40	3.04	850.00
River Carpsucker	C	O	M	5	10.00	1.65	6.90	6.17	690.00
Silver Redhorse	R	I	S M	3	6.00	0.99	8.20	7.33	1,366.67
Golden Redhorse	R	I	S M	23	46.00	7.59	14.69	13.14	319.35
River Redhorse [S]	R	I	S I	2	4.00	0.66	3.24	2.90	810.00
Northern Hog Sucker	R	I	S M	20	40.00	6.60	2.80	2.50	70.00
Smallmouth Redhorse	R	I	S M	26	52.00	8.58	15.13	13.53	291.00
Common Carp	G	O	M T	1	2.00	0.33	5.00	4.47	2,500.00
Streamline Chub	N	I	S R	2	4.00	0.66	0.04	0.04	10.00
Gravel Chub	N	I	S M	11	22.00	3.63	0.05	0.05	2.40
Suckermouth Minnow	N	I	S	1	2.00	0.33	0.01	0.01	4.00
Emerald Shiner	N	I	M	64	128.00	21.12	0.34	0.31	2.67
Spotfin Shiner	N	I	M	39	78.00	12.87	0.18	0.16	2.26
Sand Shiner	N	I	M M	7	14.00	2.31	0.01	0.01	1.00
Bullhead Minnow	N	O	C	5	10.00	1.65	0.02	0.02	2.20
Bluntnose Minnow	N	O	C T	10	20.00	3.30	0.02	0.02	1.10
Central Stoneroller	N	H	N	12	24.00	3.96	0.10	0.09	4.00
Channel Catfish	F		C	3	6.00	0.99	6.71	6.00	1,118.67
Smallmouth Bass	F	C	C M	4	8.00	1.32	0.42	0.38	52.50
Spotted Bass	F	C	C	6	12.00	1.98	0.97	0.86	80.50
Largemouth Bass	F	C	C	1	2.00	0.33	0.03	0.03	15.00
Green Sunfish	S	I	C T	3	6.00	0.99	0.09	0.08	14.67
Bluegill Sunfish	S	I	C P	4	8.00	1.32	0.21	0.19	26.75
Longear Sunfish	S	I	C M	5	10.00	1.65	0.30	0.27	30.00
Green Sf X Bluegill Sf				5	10.00	1.65	0.23	0.21	23.40
Slenderhead Darter	D	I	S R	1	2.00	0.33	0.01	0.01	4.00
Logperch	D	I	S M	4	8.00	1.32	0.17	0.15	21.00
Greenside Darter	D	I	S M	6	12.00	1.98	0.02	0.02	1.83
Banded Darter	D	I	S I	3	6.00	0.99	0.00	0.00	0.67
Variegated Darter	D	I	S I	1	2.00	0.33	0.00	0.00	2.00
Rainbow Darter	D	I	S M	1	2.00	0.33	0.00	0.00	2.00
Sauger X Walleye	E	P		1	2.00	0.33	1.20	1.07	600.00
Freshwater Drum			M P	9	18.00	2.97	16.50	14.76	916.67
<i>Date Total</i>				303	606.00		111.81		
<i>Number of Species</i>				35					
<i>Number of Hybrids</i>				2					

Species List

River Code: 02-076	Stream: Griffy Run	Sample Date: 08/03/2010
River Mile: 1.10	Location: Walnut Creek Pike	Invalid Sample:
Time Fished: 1949 sec	Drainage: 4.9 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	67	134.00	4.64			
Western Blacknose Dace	N	G	S	T	296	592.00	20.48			
Creek Chub	N	G	N	T	417	834.00	28.86			
South. Redbelly Dace	N	H	S		109	218.00	7.54			
Spotfin Shiner	N	I	M		11	22.00	0.76			
Bluntnose Minnow	N	O	C	T	125	250.00	8.65			
Central Stoneroller	N	H	N		187	374.00	12.94			
Bluegill Sunfish	S	I	C	P	1	2.00	0.07			
Johnny Darter	D	I	C		122	244.00	8.44			
Greenside Darter	D	I	S	M	1	2.00	0.07			
Rainbow Darter	D	I	S	M	9	18.00	0.62			
Orangethroat Darter	D	I	S		71	142.00	4.91			
Mottled Sculpin		I	C		29	58.00	2.01			
<i>Date Total</i>					1,445	2,890.00				
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

River Code: 02-077	Stream: Dry Run	Sample Date: 08/03/2010
River Mile: 3.70	Location: Bell Station Rd.	Invalid Sample:
Time Fished: 320 sec	Drainage: 4.7 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: I	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	9	18.00	6.57			
Western Blacknose Dace	N	G	S	T	2	4.00	1.46			
Creek Chub	N	G	N	T	100	200.00	72.99			
Bluntnose Minnow	N	O	C	T	1	2.00	0.73			
Central Stoneroller	N	H	N		1	2.00	0.73			
Largemouth Bass	F	C	C		3	6.00	2.19			
Green Sunfish	S	I	C	T	3	6.00	2.19			
Bluegill Sunfish	S	I	C	P	2	4.00	1.46			
Johnny Darter	D	I	C		6	12.00	4.38			
Mottled Sculpin		I	C		10	20.00	7.30			
<i>Date Total</i>					137	274.00				
<i>Number of Species</i>					10					
<i>Number of Hybrids</i>					0					

River Code: 02-077	Stream: Dry Run	Sample Date: 08/03/2010
River Mile: 0.50	Location: Island Rd.	Invalid Sample:
Time Fished: 1060 sec	Drainage: 18.4 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	4	8.00	1.16		
Black Redhorse	R	I	S	I	1	2.00	0.29		
Golden Redhorse	R	I	S	M	4	8.00	1.16		
Northern Hog Sucker	R	I	S	M	20	40.00	5.78		
White Sucker	W	O	S	T	38	76.00	10.98		
Western Blacknose Dace	N	G	S	T	5	10.00	1.45		
Creek Chub	N	G	N	T	33	66.00	9.54		
Striped Shiner	N	I	S		2	4.00	0.58		
Spotfin Shiner	N	I	M		36	72.00	10.40		
Sand Shiner	N	I	M	M	20	40.00	5.78		
Bluntnose Minnow	N	O	C	T	6	12.00	1.73		
Central Stoneroller	N	H	N		104	208.00	30.06		
Rock Bass	S	C	C		1	2.00	0.29		
Largemouth Bass	F	C	C		5	10.00	1.45		
Green Sunfish	S	I	C	T	9	18.00	2.60		
Bluegill Sunfish	S	I	C	P	3	6.00	0.87		
Johnny Darter	D	I	C		6	12.00	1.73		
Greenside Darter	D	I	S	M	2	4.00	0.58		
Rainbow Darter	D	I	S	M	25	50.00	7.23		
Orangethroat Darter	D	I	S		3	6.00	0.87		
Mottled Sculpin		I	C		19	38.00	5.49		
	<i>Date Total</i>			346	692.00				
	<i>Number of Species</i>			21					
	<i>Number of Hybrids</i>			0					

River Code: 02-088	Stream: Van Meter Run	Sample Date: 08/02/2010
River Mile: 1.00	Location: St. Rt. 104	Invalid Sample:
Time Fished: 2509 sec	Drainage: 5.8 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	1	2.00	0.07			
White Sucker	W	O	S	T	25	50.00	1.72			
Western Blacknose Dace	N	G	S	T	133	266.00	9.14			
Creek Chub	N	G	N	T	657	1,314.00	45.15			
South. Redbelly Dace	N	H	S		144	288.00	9.90			
Striped Shiner	N	I	S		46	92.00	3.16			
Spotfin Shiner	N	I	M		5	10.00	0.34			
Bluntnose Minnow	N	O	C	T	37	74.00	2.54			
Central Stoneroller	N	H	N		178	356.00	12.23			
Yellow Bullhead		I	C	T	2	4.00	0.14			
Blackstripe Topminnow		I	M		3	6.00	0.21			
Largemouth Bass	F	C	C		6	12.00	0.41			
Green Sunfish	S	I	C	T	1	2.00	0.07			
Bluegill Sunfish	S	I	C	P	1	2.00	0.07			
Johnny Darter	D	I	C		60	120.00	4.12			
Orangethroat Darter	D	I	S		100	200.00	6.87			
Fantail Darter	D	I	C		1	2.00	0.07			
Mottled Sculpin		I	C		55	110.00	3.78			
	<i>Date Total</i>				1,455	2,910.00				
	<i>Number of Species</i>				18					
	<i>Number of Hybrids</i>				0					

River Code: 02-089	Stream: Grove Run	Sample Date: 08/03/2010
River Mile: 1.60	Location: Gibson Rd.	Invalid Sample:
Time Fished: 1380 sec	Drainage: 5.6 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	132	264.00	7.15			
Western Blacknose Dace	N	G	S	T	34	68.00	1.84			
Creek Chub	N	G	N	T	425	850.00	23.01			
South. Redbelly Dace	N	H	S		18	36.00	0.97			
Striped Shiner	N	I	S		91	182.00	4.93			
Silverjaw Minnow	N	I	M		2	4.00	0.11			
Fathead Minnow	N	O	C	T	1	2.00	0.05			
Bluntnose Minnow	N	O	C	T	295	590.00	15.97			
Central Stoneroller	N	H	N		664	1,328.00	35.95			
Yellow Bullhead		I	C	T	3	6.00	0.16			
Largemouth Bass	F	C	C		14	28.00	0.76			
Green Sunfish	S	I	C	T	18	36.00	0.97			
Bluegill Sunfish	S	I	C	P	9	18.00	0.49			
Johnny Darter	D	I	C		66	132.00	3.57			
Orangethroat Darter	D	I	S		17	34.00	0.92			
Mottled Sculpin		I	C		58	116.00	3.14			
<i>Date Total</i>					1,847	3,694.00				
<i>Number of Species</i>					16					
<i>Number of Hybrids</i>					0					

River Code: 02-090	Stream: Plum Run	Sample Date: 07/16/2010
River Mile: 0.70	Location: St. Rt. 665	Invalid Sample:
Time Fished: 2024 sec	Drainage: 7.0 sq mi	Depth:
Dist Fished: 0.15 km	Basin: Scioto River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	365	730.00	20.44	12.32	40.65	16.88
Common Carp	G	O	M	T	1	2.00	0.06	0.06	0.19	29.00
Western Blacknose Dace	N	G	S	T	422	844.00	23.63	1.70	5.61	2.02
Creek Chub	N	G	N	T	384	768.00	21.50	9.20	30.33	11.97
South. Redbelly Dace	N	H	S		20	40.00	1.12	0.09	0.30	2.31
Striped Shiner	N	I	S		6	12.00	0.34	0.19	0.62	15.75
Spotfin Shiner	N	I	M		1	2.00	0.06	0.00	0.01	2.00
Silverjaw Minnow	N	I	M		1	2.00	0.06	0.00	0.01	2.00
Fathead Minnow	N	O	C	T	7	14.00	0.39	0.02	0.07	1.50
Bluntnose Minnow	N	O	C	T	11	22.00	0.62	0.04	0.15	2.00
Central Stoneroller	N	H	N		338	676.00	18.92	4.25	14.02	6.29
Largemouth Bass	F	C	C		3	6.00	0.17	0.02	0.06	3.00
Green Sunfish	S	I	C	T	3	6.00	0.17	0.07	0.22	11.00
Bluegill Sunfish	S	I	C	P	2	4.00	0.11	0.23	0.77	58.00
Johnny Darter	D	I	C		20	40.00	1.12	0.05	0.16	1.25
Greenside Darter	D	I	S	M	1	2.00	0.06	0.00	0.01	2.00
Rainbow Darter	D	I	S	M	13	26.00	0.73	0.04	0.13	1.46
Orangethroat Darter	D	I	S		28	56.00	1.57	0.11	0.37	2.00
Mottled Sculpin		I	C		160	320.00	8.96	1.91	6.31	5.98
<i>Date Total</i>					1,786	3,572.00		30.32		
<i>Number of Species</i>					19					
<i>Number of Hybrids</i>					0					

River Code: 02-091	Stream: Grant Run	Sample Date: 07/23/2010
River Mile: 2.00	Location: Buckeye Parkway	Invalid Sample:
Time Fished: 2813 sec	Drainage: 7.8 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	4	8.00	0.34			
White Sucker	W	O	S	T	133	266.00	11.31			
Golden Shiner	N	I	M	T	1	2.00	0.09			
Western Blacknose Dace	N	G	S	T	16	32.00	1.36			
Creek Chub	N	G	N	T	128	256.00	10.88			
Striped Shiner	N	I	S		9	18.00	0.77			
Silverjaw Minnow	N	I	M		12	24.00	1.02			
Bluntnose Minnow	N	O	C	T	12	24.00	1.02			
Central Stoneroller	N	H	N		484	968.00	41.16			
Yellow Bullhead		I	C	T	12	24.00	1.02			
Green Sunfish	S	I	C	T	175	350.00	14.88			
Bluegill Sunfish	S	I	C	P	25	50.00	2.13			
Pumpkinseed Sunfish	S	I	C	P	2	4.00	0.17			
Hybrid X Sunfish					1	2.00	0.09			
Johnny Darter	D	I	C		20	40.00	1.70			
Rainbow Darter	D	I	S	M	9	18.00	0.77			
Orangethroat Darter	D	I	S		72	144.00	6.12			
Mottled Sculpin		I	C		61	122.00	5.19			
<i>Date Total</i>					1,176	2,352.00				
<i>Number of Species</i>					17					
<i>Number of Hybrids</i>					1					

River Code: 02-091	Stream: Grant Run	Sample Date: 08/17/2010
River Mile: 0.20	Location: 5683 Paul Talbot Drive	Invalid Sample:
Time Fished: 1045 sec	Drainage: 14.1 sq mi	Data Source: 01
Dist Fished: 0.16 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Western Blacknose Dace	N	G	S	T	2	3.75	2.15			
Creek Chub	N	G	N	T	39	73.13	41.94			
Striped Shiner	N	I	S		1	1.88	1.08			
Spotfin Shiner	N	I	M		1	1.88	1.08			
Sand Shiner	N	I	M	M	4	7.50	4.30			
Bluntnose Minnow	N	O	C	T	10	18.75	10.75			
Central Stoneroller	N	H	N		30	56.25	32.26			
Green Sunfish	S	I	C	T	1	1.88	1.08			
Bluegill Sunfish	S	I	C	P	2	3.75	2.15			
Pumpkinseed Sunfish	S	I	C	P	1	1.88	1.08			
Rainbow Darter	D	I	S	M	2	3.75	2.15			
	<i>Date Total</i>				93	174.38				
	<i>Number of Species</i>				11					
	<i>Number of Hybrids</i>				0					

River Code: 02-092	Stream: Scioto Big Run	Sample Date: 07/09/2010
River Mile: 4.50	Location: upst. U.S. Rt. 62	Invalid Sample:
Time Fished: 3183 sec	Drainage: 11.8 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	2	4.00	0.57			
White Sucker	W	O	S	T	5	10.00	1.42			
Western Blacknose Dace	N	G	S	T	16	32.00	4.56			
Creek Chub	N	G	N	T	42	84.00	11.97			
Suckermouth Minnow	N	I	S		5	10.00	1.42			
Rosyface Shiner	N	I	S	I	8	16.00	2.28			
Striped Shiner	N	I	S		88	176.00	25.07			
Sand Shiner	N	I	M	M	3	6.00	0.85			
Silverjaw Minnow	N	I	M		6	12.00	1.71			
Bluntnose Minnow	N	O	C	T	6	12.00	1.71			
Central Stoneroller	N	H	N		149	298.00	42.45			
Yellow Bullhead		I	C	T	3	6.00	0.85			
Green Sunfish	S	I	C	T	11	22.00	3.13			
Rainbow Darter	D	I	S	M	4	8.00	1.14			
Orangethroat Darter	D	I	S		3	6.00	0.85			
<i>Date Total</i>					351	702.00				
<i>Number of Species</i>					15					
<i>Number of Hybrids</i>					0					

River Code: 02-092	Stream: Scioto Big Run	Sample Date: 08/06/2010
River Mile: 2.90	Location: Hardy Parkway	Invalid Sample:
Time Fished: 1990 sec	Drainage: 17.6 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	27	54.00	3.67			
Western Blacknose Dace	N	G	S	T	7	14.00	0.95			
Creek Chub	N	G	N	T	31	62.00	4.21			
Suckermouth Minnow	N	I	S		5	10.00	0.68			
Rosyface Shiner	N	I	S	I	8	16.00	1.09			
Striped Shiner	N	I	S		35	70.00	4.76			
Spotfin Shiner	N	I	M		5	10.00	0.68			
Sand Shiner	N	I	M	M	40	80.00	5.43			
Silverjaw Minnow	N	I	M		6	12.00	0.82			
Bluntnose Minnow	N	O	C	T	27	54.00	3.67			
Central Stoneroller	N	H	N		402	804.00	54.62			
Yellow Bullhead		I	C	T	2	4.00	0.27			
Green Sunfish	S	I	C	T	2	4.00	0.27			
Bluegill Sunfish	S	I	C	P	2	4.00	0.27			
Johnny Darter	D	I	C		30	60.00	4.08			
Greenside Darter	D	I	S	M	1	2.00	0.14			
Rainbow Darter	D	I	S	M	104	208.00	14.13			
Mottled Sculpin		I	C		2	4.00	0.27			
<i>Date Total</i>					736	1,472.00				
<i>Number of Species</i>					18					
<i>Number of Hybrids</i>					0					

River Code: 02-095	Stream: Dry Run	Sample Date: 07/14/2010
River Mile: 1.40	Location: McKinley Ave.	Invalid Sample:
Time Fished: 1800 sec	Drainage: 7.0 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	65	130.00	20.77			
Creek Chub	N	G	N	T	65	130.00	20.77			
Central Stoneroller	N	H	N		177	354.00	56.55			
Yellow Bullhead		I	C	T	2	4.00	0.64			
Green Sunfish	S	I	C	T	4	8.00	1.28			
	<i>Date Total</i>				313	626.00				
	<i>Number of Species</i>				5					
	<i>Number of Hybrids</i>				0					

River Code: 02-097	Stream: Hayden Run	Sample Date: 07/16/2010
River Mile: 0.90	Location: Hayden Run Rd.	Invalid Sample:
Time Fished: 2411 sec	Drainage: 7.0 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Western Blacknose Dace	N	G	S	T	240	480.00	49.48			
Creek Chub	N	G	N	T	234	468.00	48.25			
Fathead Minnow	N	O	C	T	3	6.00	0.62			
Green Sunfish	S	I	C	T	2	4.00	0.41			
Bluegill Sunfish	S	I	C	P	5	10.00	1.03			
Hybrid X Sunfish					1	2.00	0.21			
	<i>Date Total</i>				485	970.00				
	<i>Number of Species</i>				5					
	<i>Number of Hybrids</i>				1					

River Code: 02-098	Stream: North Fork Indian Run	Sample Date: 07/14/2010
River Mile: 5.20	Location: Highland-Croy Rd., adj high school	Invalid Sample:
Time Fished: 2693 sec	Drainage: 5.6 sq mi	Depth: 01
Dist Fished: 0.15 km	Basin: Scioto River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	22	44.00	6.03			
Creek Chub	N	G	N	T	98	196.00	26.85			
Fathead Minnow	N	O	C	T	24	48.00	6.58			
Bluntnose Minnow	N	O	C	T	10	20.00	2.74			
Central Stoneroller	N	H	N		81	162.00	22.19			
Yellow Bullhead		I	C	T	1	2.00	0.27			
Blackstripe Topminnow		I	M		20	40.00	5.48			
Largemouth Bass	F	C	C		4	8.00	1.10			
Green Sunfish	S	I	C	T	6	12.00	1.64			
Bluegill Sunfish	S	I	C	P	7	14.00	1.92			
Longear Sunfish	S	I	C	M	1	2.00	0.27			
Johnny Darter	D	I	C		2	4.00	0.55			
Orangethroat Darter	D	I	S		88	176.00	24.11			
Fantail Darter	D	I	C		1	2.00	0.27			
	<i>Date Total</i>				365	730.00				
	<i>Number of Species</i>				14					
	<i>Number of Hybrids</i>				0					

River Code: 02-098	Stream: North Fork Indian Run	Sample Date: 07/02/2010
River Mile: 1.80	Location: Coffman Rd.	Invalid Sample:
Time Fished: 1870 sec	Drainage: 10.2 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Northern Hog Sucker	R	I	S	M	1	2.00	0.24	0.04	0.39	21.00
White Sucker	W	O	S	T	43	86.00	10.36	2.31	21.59	26.84
Creek Chub	N	G	N	T	82	164.00	19.76	5.05	47.23	30.78
Fathead Minnow	N	O	C	T	1	2.00	0.24	0.00	0.02	1.00
Bluntnose Minnow	N	O	C	T	7	14.00	1.69	0.09	0.80	6.14
Central Stoneroller	N	H	N		257	514.00	61.93	2.47	23.09	4.80
Yellow Bullhead		I	C	T	6	12.00	1.45	0.28	2.58	23.00
Green Sunfish	S	I	C	T	2	4.00	0.48	0.02	0.22	6.00
Bluegill Sunfish	S	I	C	P	6	12.00	1.45	0.33	3.13	27.80
Hybrid X Sunfish					3	6.00	0.72	0.05	0.45	8.00
Logperch	D	I	S	M	3	6.00	0.72	0.04	0.39	7.00
Orangethroat Darter	D	I	S		4	8.00	0.96	0.01	0.09	1.25
<i>Date Total</i>					415	830.00		10.69		
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					1					

River Code: 02-099	Stream: South Fork Indian Run	Sample Date: 07/16/2010
River Mile: 1.30	Location: Dublin Rec. Center entrance road	Invalid Sample:
Time Fished: 1776 sec	Drainage: 5.1 sq mi	Depth:
Dist Fished: 0.15 km	Basin: Scioto River	Flow: C
		Data Source: 01
		Sampler Type: E

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Creek Chub	N	G	N	T	115	230.00	53.74			
Yellow Bullhead		I	C	T	15	30.00	7.01			
Largemouth Bass	F	C	C		2	4.00	0.93			
Green Sunfish	S	I	C	T	49	98.00	22.90			
Bluegill Sunfish	S	I	C	P	30	60.00	14.02			
Hybrid X Sunfish					1	2.00	0.47			
Rainbow Darter	D	I	S	M	2	4.00	0.93			
	<i>Date Total</i>				214	428.00				
	<i>Number of Species</i>				6					
	<i>Number of Hybrids</i>				1					

River Code: 02-108	Stream: Eversole Run	Sample Date: 07/08/2010
River Mile: 2.20	Location: Concord Rd.	Invalid Sample:
Time Fished: 2525 sec	Drainage: 4.3 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	4	8.00	1.34			
Creek Chub	N	G	N	T	83	166.00	27.76			
Bluntnose Minnow	N	O	C	T	17	34.00	5.69			
Central Stoneroller	N	H	N		55	110.00	18.39			
Smallmouth Bass	F	C	C	M	1	2.00	0.33			
Green Sunfish	S	I	C	T	14	28.00	4.68			
Johnny Darter	D	I	C		22	44.00	7.36			
Orangethroat Darter	D	I	S		84	168.00	28.09			
Fantail Darter	D	I	C		19	38.00	6.35			
	<i>Date Total</i>				299	598.00				
	<i>Number of Species</i>				9					
	<i>Number of Hybrids</i>				0					

River Code: 02-108	Stream: Eversole Run	Sample Date: 08/17/2010
River Mile: 1.30	Location: dst. Cook Rd.	Invalid Sample:
Time Fished: 2008 sec	Drainage: 10.5 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Gizzard Shad		O	M		2	4.00	0.54			
White Sucker	W	O	S	T	4	8.00	1.09			
Creek Chub	N	G	N	T	42	84.00	11.44			
Silver Shiner	N	I	S	I	2	4.00	0.54			
Striped Shiner	N	I	S		11	22.00	3.00			
Spotfin Shiner	N	I	M		1	2.00	0.27			
Bluntnose Minnow	N	O	C	T	11	22.00	3.00			
Central Stoneroller	N	H	N		24	48.00	6.54			
Yellow Bullhead		I	C	T	1	2.00	0.27			
Rock Bass	S	C	C		1	2.00	0.27			
Largemouth Bass	F	C	C		2	4.00	0.54			
Green Sunfish	S	I	C	T	37	74.00	10.08			
Bluegill Sunfish	S	I	C	P	1	2.00	0.27			
Logperch	D	I	S	M	8	16.00	2.18			
Johnny Darter	D	I	C		8	16.00	2.18			
Rainbow Darter	D	I	S	M	25	50.00	6.81			
Orangethroat Darter	D	I	S		104	208.00	28.34			
Fantail Darter	D	I	C		83	166.00	22.62			
	<i>Date Total</i>				367	734.00				
	<i>Number of Species</i>				18					
	<i>Number of Hybrids</i>				0					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 07/07/2010
River Mile: 27.20	Location: Phelps Rd.	Invalid Sample:
Time Fished: 2646 sec	Drainage: 35.0 sq mi	Data Source: 01
Dist Fished: 0.28 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	16	17.14	3.39	0.33	11.78	19.43
White Sucker	W	O	S T	26	27.86	5.51	0.95	33.49	34.00
Creek Chubsucker	R	I	M	10	10.71	2.12	0.06	2.09	5.50
Creek Chub	N	G	N T	6	6.43	1.27	0.21	7.32	32.20
Redfin Shiner	N	I	N	34	36.43	7.20	0.05	1.73	1.35
Scarlet Shiner	N	I	S M	7	7.50	1.48	0.01	0.39	1.43
Striped Shiner	N	I	S	24	25.71	5.08	0.12	4.21	4.64
Bluntnose Minnow	N	O	C T	100	107.14	21.19	0.11	3.85	1.02
Central Stoneroller	N	H	N	5	5.36	1.06	0.08	2.69	14.20
Yellow Bullhead		I	C T	3	3.21	0.64	0.13	4.56	40.00
Tadpole Madtom		I	C	5	5.36	1.06	0.02	0.74	4.00
Blackstripe Topminnow		I	M	3	3.21	0.64	0.01	0.18	1.67
Rock Bass	S	C	C	11	11.79	2.33	0.07	2.51	6.00
Green Sunfish	S	I	C T	4	4.29	0.85	0.06	1.98	13.00
Longear Sunfish	S	I	C M	18	19.29	3.81	0.38	13.40	19.67
Blackside Darter	D	I	S	1	1.07	0.21	0.00	0.11	3.00
Johnny Darter	D	I	C	58	62.14	12.29	0.05	1.87	0.86
Greenside Darter	D	I	S M	25	26.79	5.30	0.08	2.69	2.83
Rainbow Darter	D	I	S M	93	99.64	19.70	0.11	3.75	1.07
Fantail Darter	D	I	C	23	24.64	4.87	0.02	0.60	0.68
<i>Date Total</i>				472	505.71		2.83		
<i>Number of Species</i>				20					
<i>Number of Hybrids</i>				0					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 08/18/2010
River Mile: 27.20	Location: Phelps Rd.	Invalid Sample:
Time Fished: 3006 sec	Drainage: 35.0 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	56	84.00	8.33	3.08	15.66	36.66
Northern Hog Sucker	R	I	S M	3	4.50	0.45	0.30	1.51	66.00
White Sucker	W	O	S T	59	88.50	8.78	6.64	33.76	75.00
Creek Chubsucker	R	I	M	51	76.50	7.59	1.07	5.43	13.96
Common Carp	G	O	M T	2	3.00	0.30	1.28	6.48	425.00
Golden Shiner	N	I	M T	6	9.00	0.89	0.63	3.22	70.33
Creek Chub	N	G	N T	5	7.50	0.74	0.40	2.04	53.60
Redfin Shiner	N	I	N	11	16.50	1.64	0.03	0.17	2.00
Striped Shiner	N	I	S	24	36.00	3.57	0.21	1.04	5.70
Bluntnose Minnow	N	O	C T	50	75.00	7.44	0.06	0.31	0.80
Central Stoneroller	N	H	N	1	1.50	0.15	0.01	0.06	8.00
Hybrid X Minnow				1	1.50	0.15	0.01	0.04	5.00
Yellow Bullhead		I	C T	13	19.50	1.93	0.70	3.54	35.73
Black Bullhead		I	C P	3	4.50	0.45	0.25	1.26	55.00
Tadpole Madtom		I	C	8	12.00	1.19	0.06	0.31	5.00
Blackstripe Topminnow		I	M	19	28.50	2.83	0.07	0.35	2.37
Rock Bass	S	C	C	31	46.50	4.61	1.08	5.50	23.26
Smallmouth Bass	F	C	C M	1	1.50	0.15	0.09	0.47	62.00
Spotted Bass	F	C	C	1	1.50	0.15	0.03	0.17	22.00
Largemouth Bass	F	C	C	5	7.50	0.74	0.12	0.59	15.40
Green Sunfish	S	I	C T	52	78.00	7.74	1.34	6.82	17.20
Bluegill Sunfish	S	I	C P	4	6.00	0.60	0.23	1.14	37.50
Longear Sunfish	S	I	C M	62	93.00	9.23	1.62	8.25	17.46
Blackside Darter	D	I	S	3	4.50	0.45	0.01	0.07	3.00
Johnny Darter	D	I	C	50	75.00	7.44	0.07	0.34	0.89
Greenside Darter	D	I	S M	28	42.00	4.17	0.12	0.62	2.89
Rainbow Darter	D	I	S M	99	148.50	14.73	0.14	0.69	0.91
Orangethroat Darter	D	I	S	4	6.00	0.60	0.01	0.06	2.00
Fantail Darter	D	I	C	20	30.00	2.98	0.02	0.11	0.72
<i>Date Total</i>				672	1,008.00		19.67		
<i>Number of Species</i>				28					
<i>Number of Hybrids</i>				1					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 07/07/2010
River Mile: 22.20	Location: St. Rt. 47	Invalid Sample:
Time Fished: 1666 sec	Drainage: 45.0 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	7	10.50	1.35	0.49	7.00	46.57
Northern Hog Sucker	R	I	S M	5	7.50	0.96	0.47	6.77	63.00
White Sucker	W	O	S T	8	12.00	1.54	0.17	2.39	13.88
Creek Chubsucker	R	I	M	2	3.00	0.38	0.01	0.17	4.00
Creek Chub	N	G	N T	23	34.50	4.42	0.54	7.76	15.71
Redfin Shiner	N	I	N	12	18.00	2.31	0.02	0.30	1.17
Scarlet Shiner	N	I	S M	12	18.00	2.31	0.02	0.30	1.17
Striped Shiner	N	I	S	68	102.00	13.08	0.70	9.98	6.83
Silverjaw Minnow	N	I	M	64	96.00	12.31	0.17	2.43	1.78
Bluntnose Minnow	N	O	C T	98	147.00	18.85	0.24	3.49	1.66
Central Stoneroller	N	H	N	26	39.00	5.00	0.07	1.02	1.83
Redfin Sh X Rosefin Sh		I		5	7.50	0.96	0.01	0.13	1.20
Yellow Bullhead		I	C T	1	1.50	0.19	0.03	0.39	18.00
Blackstripe Topminnow		I	M	1	1.50	0.19	0.00	0.03	1.00
Rock Bass	S	C	C	28	42.00	5.38	1.40	20.10	33.43
Green Sunfish	S	I	C T	4	6.00	0.77	0.06	0.90	10.50
Longear Sunfish	S	I	C M	48	72.00	9.23	2.35	33.57	32.56
Blackside Darter	D	I	S	4	6.00	0.77	0.02	0.34	4.00
Johnny Darter	D	I	C	53	79.50	10.19	0.07	1.06	0.92
Greenside Darter	D	I	S M	25	37.50	4.81	0.10	1.36	2.54
Rainbow Darter	D	I	S M	16	24.00	3.08	0.02	0.21	0.63
Orangethroat Darter	D	I	S	1	1.50	0.19	0.00	0.03	1.00
Fantail Darter	D	I	C	9	13.50	1.73	0.02	0.29	1.50
<i>Date Total</i>				520	780.00		6.99		
<i>Number of Species</i>				22					
<i>Number of Hybrids</i>				1					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 08/18/2010
River Mile: 22.20	Location: St. Rt. 47	Invalid Sample:
Time Fished: 2121 sec	Drainage: 45.0 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	11	16.50	1.90	0.59	3.27	35.67
Golden Redhorse	R	I	S M	15	22.50	2.60	1.82	10.09	80.77
Northern Hog Sucker	R	I	S M	9	13.50	1.56	0.98	5.43	72.50
White Sucker	W	O	S T	115	172.50	19.90	8.44	46.83	48.90
Creek Chubsucker	R	I	M	1	1.50	0.17	0.02	0.10	12.00
Golden Shiner	N	I	M T	1	1.50	0.17	0.01	0.05	6.00
Creek Chub	N	G	N T	11	16.50	1.90	0.68	3.78	41.25
Redfin Shiner	N	I	N	12	18.00	2.08	0.02	0.11	1.08
Scarlet Shiner	N	I	S M	14	21.00	2.42	0.02	0.13	1.07
Striped Shiner	N	I	S	77	115.50	13.32	1.76	9.78	15.25
Silverjaw Minnow	N	I	M	14	21.00	2.42	0.06	0.33	2.79
Bluntnose Minnow	N	O	C T	16	24.00	2.77	0.03	0.19	1.40
Redfin Sh X Rosefin Sh		I		17	25.50	2.94	0.03	0.16	1.12
Yellow Bullhead		I	C T	3	4.50	0.52	0.13	0.74	29.50
Tadpole Madtom		I	C	2	3.00	0.35	0.03	0.17	10.00
Blackstripe Topminnow		I	M	3	4.50	0.52	0.01	0.03	1.33
Rock Bass	S	C	C	53	79.50	9.17	1.32	7.31	16.55
Green Sunfish	S	I	C T	26	39.00	4.50	0.32	1.78	8.20
Bluegill Sunfish	S	I	C P	2	3.00	0.35	0.03	0.17	10.00
Longear Sunfish	S	I	C M	61	91.50	10.55	1.53	8.47	16.68
Blackside Darter	D	I	S	7	10.50	1.21	0.03	0.18	3.00
Johnny Darter	D	I	C	50	75.00	8.65	0.06	0.36	0.85
Greenside Darter	D	I	S M	17	25.50	2.94	0.04	0.21	1.50
Rainbow Darter	D	I	S M	28	42.00	4.84	0.05	0.25	1.07
Fantail Darter	D	I	C	13	19.50	2.25	0.02	0.13	1.25
<i>Date Total</i>				578	867.00		18.02		
<i>Number of Species</i>				24					
<i>Number of Hybrids</i>				1					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 07/08/2010
River Mile: 20.20	Location: adj. St. Rt. 31	Invalid Sample:
Time Fished: 1985 sec	Drainage: 51.0 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	28	42.00	5.88	1.80	14.87	42.86
Northern Hog Sucker	R	I	S M	2	3.00	0.42	0.12	0.97	39.00
White Sucker	W	O	S T	31	46.50	6.51	2.41	19.86	51.71
Creek Chubsucker	R	I	M	4	6.00	0.84	0.02	0.15	3.00
Golden Shiner	N	I	M T	1	1.50	0.21	0.02	0.12	10.00
Creek Chub	N	G	N T	49	73.50	10.29	4.20	34.69	57.14
Redfin Shiner	N	I	N	15	22.50	3.15	0.05	0.37	2.00
Scarlet Shiner	N	I	S M	5	7.50	1.05	0.02	0.12	2.00
Striped Shiner	N	I	S	29	43.50	6.09	0.35	2.85	7.93
Bluntnose Minnow	N	O	C T	14	21.00	2.94	0.03	0.24	1.36
Central Stoneroller	N	H	N	2	3.00	0.42	0.00	0.02	1.00
Yellow Bullhead		I	C T	4	6.00	0.84	0.15	1.21	24.50
Blackstripe Topminnow		I	M	2	3.00	0.42	0.00	0.02	1.00
Rock Bass	S	C	C	13	19.50	2.73	0.86	7.09	44.00
Green Sunfish	S	I	C T	101	151.50	21.22	1.72	14.19	11.34
Bluegill Sunfish	S	I	C P	1	1.50	0.21	0.01	0.05	4.00
Longear Sunfish	S	I	C M	1	1.50	0.21	0.04	0.35	28.00
Blackside Darter	D	I	S	16	24.00	3.36	0.05	0.39	1.94
Logperch	D	I	S M	4	6.00	0.84	0.05	0.40	8.00
Johnny Darter	D	I	C	41	61.50	8.61	0.04	0.32	0.64
Greenside Darter	D	I	S M	69	103.50	14.50	0.15	1.26	1.47
Rainbow Darter	D	I	S M	36	54.00	7.56	0.03	0.27	0.62
Orangethroat Darter	D	I	S	3	4.50	0.63	0.01	0.04	1.00
Fantail Darter	D	I	C	5	7.50	1.05	0.02	0.15	2.40
<i>Date Total</i>				476	714.00		12.11		
<i>Number of Species</i>				24					
<i>Number of Hybrids</i>				0					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 08/18/2010
River Mile: 20.20	Location: adj. St. Rt. 31	Invalid Sample:
Time Fished: 1899 sec	Drainage: 51.0 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	15	22.50	3.48	0.81	12.32	35.79
Golden Redhorse	R	I	S M	1	1.50	0.23	0.04	0.60	26.00
White Sucker	W	O	S T	6	9.00	1.39	0.46	6.96	50.50
Creek Chubsucker	R	I	M	10	15.00	2.32	0.18	2.75	12.00
Golden Shiner	N	I	M T	2	3.00	0.46	0.01	0.12	2.50
Creek Chub	N	G	N T	37	55.50	8.58	0.98	14.98	17.65
Redfin Shiner	N	I	N	2	3.00	0.46	0.01	0.09	2.00
Striped Shiner	N	I	S	37	55.50	8.58	0.31	4.71	5.56
Central Stoneroller	N	H	N	23	34.50	5.34	0.15	2.33	4.39
Yellow Bullhead		I	C T	3	4.50	0.70	0.17	2.52	36.67
Tadpole Madtom		I	C	1	1.50	0.23	0.01	0.18	8.00
Blackstripe Topminnow		I	M	3	4.50	0.70	0.01	0.09	1.33
Rock Bass	S	C	C	13	19.50	3.02	1.06	16.16	54.17
Green Sunfish	S	I	C T	92	138.00	21.35	1.83	27.92	13.22
Bluegill Sunfish	S	I	C P	2	3.00	0.46	0.04	0.63	13.50
Longear Sunfish	S	I	C M	3	4.50	0.70	0.12	1.79	26.00
Pumpkinseed Sunfish	S	I	C P	1	1.50	0.23	0.03	0.50	22.00
Blackside Darter	D	I	S	3	4.50	0.70	0.01	0.18	2.67
Johnny Darter	D	I	C	20	30.00	4.64	0.03	0.46	1.00
Greenside Darter	D	I	S M	72	108.00	16.71	0.20	2.98	1.81
Rainbow Darter	D	I	S M	70	105.00	16.24	0.08	1.25	0.78
Fantail Darter	D	I	C	15	22.50	3.48	0.03	0.47	1.36
<i>Date Total</i>				431	646.50		6.54		
<i>Number of Species</i>				22					
<i>Number of Hybrids</i>				0					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 07/08/2010
River Mile: 14.70	Location: Taylor-Claiborne Rd.	Invalid Sample:
Time Fished: 2632 sec	Drainage: 60.0 sq mi	Data Source: 01
Dist Fished: 0.22 km	Basin: Scioto River	Sampler Type: D
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	13	17.73	1.40	0.98	1.21	55.10
Quillback	C	O	M	1	1.36	0.11	0.06	0.07	42.00
Golden Redhorse	R	I	S M	15	20.46	1.62	3.41	4.22	166.44
Northern Hog Sucker	R	I	S M	17	23.18	1.83	2.30	2.85	99.40
White Sucker	W	O	S T	120	163.64	12.94	18.04	22.35	110.26
Common Carp	G	O	M T	11	15.00	1.19	43.50	53.89	2,900.00
Golden Shiner	N	I	M T	3	4.09	0.32	0.04	0.05	9.00
Creek Chub	N	G	N T	17	23.18	1.83	0.67	0.83	28.94
Redfin Shiner	N	I	N	8	10.91	0.86	0.01	0.01	1.00
Scarlet Shiner	N	I	S M	33	45.00	3.56	0.05	0.06	1.00
Striped Shiner	N	I	S	184	250.91	19.85	0.70	0.87	2.79
Silverjaw Minnow	N	I	M	72	98.18	7.77	0.22	0.27	2.25
Bluntnose Minnow	N	O	C T	166	226.36	17.91	0.41	0.51	1.82
Central Stoneroller	N	H	N	53	72.27	5.72	0.25	0.31	3.46
Yellow Bullhead		I	C T	12	16.36	1.29	1.99	2.46	121.50
Tadpole Madtom		I	C	4	5.46	0.43	0.05	0.07	9.75
Rock Bass	S	C	C	50	68.18	5.39	6.55	8.11	96.00
Green Sunfish	S	I	C T	33	45.00	3.56	0.60	0.74	13.29
Bluegill Sunfish	S	I	C P	7	9.55	0.76	0.32	0.39	33.33
Longear Sunfish	S	I	C M	13	17.73	1.40	0.27	0.33	15.00
Blackside Darter	D	I	S	2	2.73	0.22	0.01	0.01	3.00
Logperch	D	I	S M	10	13.64	1.08	0.14	0.18	10.40
Johnny Darter	D	I	C	16	21.82	1.73	0.03	0.03	1.20
Greenside Darter	D	I	S M	31	42.27	3.34	0.08	0.09	1.81
Rainbow Darter	D	I	S M	14	19.09	1.51	0.03	0.03	1.29
Fantail Darter	D	I	C	22	30.00	2.37	0.05	0.06	1.50
<i>Date Total</i>				927	1,264.09		80.72		
<i>Number of Species</i>				26					
<i>Number of Hybrids</i>				0					

River Code: 02-138	Stream: Bokes Creek	Sample Date: 08/18/2010
River Mile: 14.70	Location: Taylor-Claiborne Rd.	Invalid Sample:
Time Fished: 1790 sec	Drainage: 60.0 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: D
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	5	7.50	0.26	0.52	1.38	68.75
Quillback	C	O	M	2	3.00	0.10	0.18	0.48	60.00
Golden Redhorse	R	I	S M	23	34.50	1.20	2.81	7.52	81.36
Northern Hog Sucker	R	I	S M	13	19.50	0.68	1.63	4.35	83.33
White Sucker	W	O	S T	101	151.50	5.29	13.48	36.10	88.99
Common Carp	G	O	M T	1	1.50	0.05	0.57	1.53	380.00
Creek Chub	N	G	N T	75	112.50	3.93	1.85	4.95	16.45
Redfin Shiner	N	I	N	43	64.50	2.25	0.07	0.18	1.05
Scarlet Shiner	N	I	S M	19	28.50	1.00	0.03	0.08	1.05
Striped Shiner	N	I	S	104	156.00	5.45	1.18	3.16	7.58
Silverjaw Minnow	N	I	M	147	220.50	7.70	1.03	2.75	4.66
Bluntnose Minnow	N	O	C T	441	661.50	23.10	1.03	2.75	1.55
Central Stoneroller	N	H	N	640	960.00	33.53	5.64	15.09	5.87
Redfin Sh X Rosefin Sh		I		6	9.00	0.31	0.01	0.03	1.33
Yellow Bullhead		I	C T	1	1.50	0.05	0.01	0.02	5.00
Tadpole Madtom		I	C	1	1.50	0.05	0.07	0.17	43.00
Blackstripe Topminnow		I	M	3	4.50	0.16	0.01	0.04	3.00
Rock Bass	S	C	C	36	54.00	1.89	4.38	11.74	81.18
Smallmouth Bass	F	C	C M	1	1.50	0.05	0.34	0.90	223.00
Largemouth Bass	F	C	C	3	4.50	0.16	0.14	0.39	32.00
Green Sunfish	S	I	C T	50	75.00	2.62	0.99	2.65	13.20
Bluegill Sunfish	S	I	C P	1	1.50	0.05	0.04	0.10	25.00
Longear Sunfish	S	I	C M	26	39.00	1.36	0.63	1.68	16.04
Blackside Darter	D	I	S	11	16.50	0.58	0.04	0.11	2.55
Logperch	D	I	S M	8	12.00	0.42	0.23	0.60	18.71
Johnny Darter	D	I	C	34	51.00	1.78	0.08	0.21	1.55
Greenside Darter	D	I	S M	45	67.50	2.36	0.17	0.46	2.56
Rainbow Darter	D	I	S M	28	42.00	1.47	0.08	0.22	1.96
Fantail Darter	D	I	C	41	61.50	2.15	0.13	0.35	2.13
<i>Date Total</i>				1,909	2,863.50		37.35		
<i>Number of Species</i>				28					
<i>Number of Hybrids</i>				1					

River Code: 02-144	Stream: Powderlick Run	Sample Date: 07/01/2010
River Mile: 3.40	Location: St. Rt. 739	Invalid Sample:
Time Fished: 1561 sec	Drainage: 1.6 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M	P	4	6.00	0.43	0.08	1.30	13.75
White Sucker	W	O	S	T	1	1.50	0.11	0.05	0.75	32.00
Golden Shiner	N	I	M	T	1	1.50	0.11	0.03	0.52	22.00
Creek Chub	N	G	N	T	338	507.00	36.00	3.16	49.57	6.23
Redfin Shiner	N	I	N		2	3.00	0.21	0.00	0.05	1.00
Silverjaw Minnow	N	I	M		8	12.00	0.85	0.05	0.78	4.13
Fathead Minnow	N	O	C	T	289	433.50	30.78	0.80	12.56	1.84
Bluntnose Minnow	N	O	C	T	117	175.50	12.46	0.35	5.56	2.02
Central Stoneroller	N	H	N		12	18.00	1.28	0.16	2.57	9.09
Blackstripe Topminnow		I	M		75	112.50	7.99	0.51	8.05	4.56
Green Sunfish	S	I	C	T	72	108.00	7.67	1.06	16.56	9.76
Bluegill Sunfish	S	I	C	P	1	1.50	0.11	0.07	1.07	45.00
Johnny Darter	D	I	C		19	28.50	2.02	0.05	0.71	1.58
<i>Date Total</i>					939	1,408.50		6.37		
<i>Number of Species</i>					13					
<i>Number of Hybrids</i>					0					

Species List

Page 54

River Code: 02-144	Stream: Powderlick Run	Sample Date: 06/30/2010
River Mile: 1.20	Location: dst Powderlick Run Rd.	Invalid Sample:
Time Fished: 2779 sec	Drainage: 3.2 sq mi	Data Source: 01
Dist Fished: 0.20 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Redfin Pickerel		P	M P	9	13.50	1.70	0.34	3.54	25.00
White Sucker	W	O	S T	35	52.50	6.62	1.54	16.15	29.41
Common Carp	G	O	M T	5	7.50	0.95	1.03	10.72	136.67
Golden Shiner	N	I	M T	10	15.00	1.89	0.08	0.78	5.00
Creek Chub	N	G	N T	110	165.00	20.79	1.76	18.41	10.67
Scarlet Shiner	N	I	S M	4	6.00	0.76	0.03	0.35	5.50
Fathead Minnow	N	O	C T	7	10.50	1.32	0.03	0.33	3.00
Bluntnose Minnow	N	O	C T	41	61.50	7.75	0.16	1.69	2.63
Central Stoneroller	N	H	N	118	177.00	22.31	2.21	23.09	12.47
Yellow Bullhead		I	C T	15	22.50	2.84	0.94	9.86	41.86
Brown Bullhead		I	C T	5	7.50	0.95	0.18	1.88	24.00
Black Bullhead		I	C P	1	1.50	0.19	0.05	0.50	32.00
Blackstripe Topminnow		I	M	98	147.00	18.53	0.23	2.37	1.55
Green Sunfish	S	I	C T	54	81.00	10.21	0.95	9.97	11.76
Johnny Darter	D	I	C	17	25.50	3.21	0.03	0.35	1.29
<i>Date Total</i>				529	793.50		9.56		
<i>Number of Species</i>				15					
<i>Number of Hybrids</i>				0					

River Code: 02-197	Stream: Kian Run	Sample Date: 07/14/2010
River Mile: 0.50	Location: Castle Rd.	Invalid Sample:
Time Fished: 1125 sec	Drainage: 9.1 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
Silver Redhorse	R	I	S	M	1	2.00	0.93			
Western Blacknose Dace	N	G	S	T	6	12.00	5.56			
Creek Chub	N	G	N	T	76	152.00	70.37			
Suckermouth Minnow	N	I	S		1	2.00	0.93			
Sand Shiner	N	I	M	M	5	10.00	4.63			
Silverjaw Minnow	N	I	M		2	4.00	1.85			
Fathead Minnow	N	O	C	T	2	4.00	1.85			
Bluntnose Minnow	N	O	C	T	4	8.00	3.70			
Central Stoneroller	N	H	N		5	10.00	4.63			
Yellow Bullhead		I	C	T	3	6.00	2.78			
Johnny Darter	D	I	C		3	6.00	2.78			
<i>Date Total</i>					108	216.00				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

River Code: 02-243	Stream: Republican Run	Sample Date: 07/22/2010
River Mile: 1.70	Location: Berry Hill Rd.	Invalid Sample:
Time Fished: 2620 sec	Drainage: 5.7 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	198	396.00	16.10			
Western Blacknose Dace	N	G	S	T	112	224.00	9.11			
Creek Chub	N	G	N	T	527	1,054.00	42.85			
South. Redbelly Dace	N	H	S		7	14.00	0.57			
Fathead Minnow	N	O	C	T	2	4.00	0.16			
Central Stoneroller	N	H	N		370	740.00	30.08			
Yellow Bullhead		I	C	T	1	2.00	0.08			
Largemouth Bass	F	C	C		4	8.00	0.33			
Green Sunfish	S	I	C	T	6	12.00	0.49			
Bluegill Sunfish	S	I	C	P	2	4.00	0.16			
Johnny Darter	D	I	C		1	2.00	0.08			
<i>Date Total</i>					1,230	2,460.00				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

River Code: 02-266	Stream: Trabue Run	Sample Date: 08/17/2010
River Mile: 0.30	Location: McKinley Rd.	Invalid Sample:
Time Fished: 1542 sec	Drainage: 6.6 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	7	14.00	3.55			
River Chub	N	I	N	I	1	2.00	0.51			
Creek Chub	N	G	N	T	46	92.00	23.35			
Striped Shiner	N	I	S		9	18.00	4.57			
Central Stoneroller	N	H	N		42	84.00	21.32			
Yellow Bullhead		I	C	T	1	2.00	0.51			
Smallmouth Bass	F	C	C	M	2	4.00	1.02			
Largemouth Bass	F	C	C		1	2.00	0.51			
Green Sunfish	S	I	C	T	73	146.00	37.06			
Bluegill Sunfish	S	I	C	P	6	12.00	3.05			
Hybrid X Sunfish					1	2.00	0.51			
Johnny Darter	D	I	C		2	4.00	1.02			
Fantail Darter	D	I	C		6	12.00	3.05			
<i>Date Total</i>					197	394.00				
<i>Number of Species</i>					12					
<i>Number of Hybrids</i>					1					

River Code: 02-368	Stream: Peters Run	Sample Date: 08/06/2010
River Mile: 1.80	Location: St. Rt. 762	Invalid Sample:
Time Fished: 1687 sec	Drainage: 7.2 sq mi	Data Source: 01
Dist Fished: 0.15 km	Basin: Scioto River	Sampler Type: E
	Depth:	
	Flow: C	

Species Name / ODNR status	IBI Grp	Feed Guild	Breed Guild	Tol	# of Fish	Relative Number	% by Number	Relative Weight	% by Weight	Ave(gm) Weight
White Sucker	W	O	S	T	190	380.00	20.81			
Western Blacknose Dace	N	G	S	T	25	50.00	2.74			
Creek Chub	N	G	N	T	249	498.00	27.27			
South. Redbelly Dace	N	H	S		3	6.00	0.33			
Striped Shiner	N	I	S		180	360.00	19.72			
Bluntnose Minnow	N	O	C	T	38	76.00	4.16			
Central Stoneroller	N	H	N		75	150.00	8.21			
Yellow Bullhead		I	C	T	2	4.00	0.22			
Johnny Darter	D	I	C		46	92.00	5.04			
Orangethroat Darter	D	I	S		68	136.00	7.45			
Mottled Sculpin		I	C		37	74.00	4.05			
<i>Date Total</i>					913	1,826.00				
<i>Number of Species</i>					11					
<i>Number of Hybrids</i>					0					

Appendix H – Macroinvertebrate summary, 1996-2010.

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW Taxa	Ql.	Ql.	QCTV	ICI	Nar.	Drain	Comments
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.		Tol.	S					
Scioto River (02-001)																
Year: 2010																
127.74	66	33	57	17	10	15	18	16	0	17	0.88	37.6	36		1628.0	
125.50	56	32	47	13	10	11	13	11	0	18	0.61	34.9	28		1636.0	
109.40	62	24	55	26	13	22	20	18	0	14	1.57	39.7	48		2311.0	
102.14	63	24	59	28	12	26	24	24	0	13	2.00	42.6	48		2638.0	

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW Taxa	Ql.	Ql.	QCTV	ICI	Nar.	Drain	Comments
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.		Tol.	S					
Scioto River (02-001)																
Year: 2009																
174.20	41	25	28	2	2	0	3	2	0	13	0.00	28.5	14		530.0	X2,15
169.25	71	34	55	21	10	17	23	20	0	11	1.55	39.9	38		567.0	
163.80	65	41	51	25	18	18	26	22	0	7	2.57	42.6	52		660.0	
157.10	62	36	46	25	16	17	24	20	0	7	2.43	40.0	54		764.0	
145.50	68	30	59	26	13	20	21	18	0	8	2.50	40.5	38		990.0	
136.20	87	47	69	20	11	15	18	16	0	16	0.94	37.0	30		1049.0	
131.80 A	42	28	30	2	1	1	3	0	0	14	0.07	28.0	10		1611.0	X2,8 EDGE
131.80 B	6	5	0	0	0	0	0	0	0	0	*****	0.0	0		1611.0	X2,8 MIDDLE
129.10	57	28	49	15	10	12	14	12	0	11	1.09	37.0	28		1621.0	
126.00	49	20	45	9	4	7	9	7	0	15	0.47	33.7	16		1636.0	
119.90	66	33	60	22	11	19	15	13	0	13	1.46	37.8	36		1697.0	
117.60	72	32	61	18	11	15	15	13	0	14	1.07	36.7	32		1709.0	
116.30	82	32	75	26	11	24	20	19	0	16	1.50	37.0	44		2267.0	
109.40	64	34	56	26	15	22	19	14	0	12	1.83	39.2	54		2311.0	
105.30	54	37	42	20	14	17	18	12	0	5	3.40	40.0	52		2615.0	
100.00	74	34	67	35	19	30	27	24	0	11	2.73	42.5	54		3217.0	
Year: 1997																
100.10	80	35	69	28	15	22	21	15	0	17	1.29	39.2	56		3197.0	
Year: 1996																
144.80	50		50	13		13		15	0	6	2.17	40.9		G	1013.0	
144.54	33		33	5		5		6	0	9	0.56	34.8		F	1016.0	X2
144.52	35		35	6		6		8	0	11	0.55	38.4		F	1016.0	X2
136.30	54	29	43	22	14	17	20	15	0	7	2.43	41.3	48		1053.0	
133.40	53		53	16		16		17	0	11	1.45	38.7		E	1067.0	
129.00	49	27	44	8	5	8	7	6	0	15	0.53	32.2	22		1621.0	X16
128.40 A	26		26	0		0		0	0	18	0.00	23.1		VP	1624.0	X21
128.40 B	29		29	0		0		2	0	17	0.00	25.4		P	1624.0	X21
127.80	41	18	36	8	5	6	7	5	0	12	0.50	31.8	18		1628.0	X16
127.00 A	13		13	0		0		0	0	12	0.00	18.7		VP	1628.0	X21
127.00 B	13		13	0		0		0	0	10	0.00	22.7		VP	1628.0	X21
126.50	48	28	34	8	8	2	7	4	0	14	0.14	31.9	22		1629.0	X15
123.20	56	36	42	12	9	9	10	6	0	18	0.50	32.4	32		1667.0	
119.30	62	32	50	17	13	11	16	9	0	13	0.85	37.3	36		1697.0	
118.30 A	15		15	0		0		0	0	12	0.00	21.9		VP	1708.0	X21
118.30 B	27		27	3		3		3	0	11	0.27	31.7		P	1708.0	X21
117.30	63	34	52	17	12	14	15	11	0	14	1.00	38.4	46		1709.0	

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW Taxa	Ql.	Ql.	QCTV	ICI	Nar.	Drain	Comments
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.		Tol.	S					
Scioto River (02-001)																
116.30	72	38	57	25	11	19	19	13	0	14	1.36	35.9	40		2267.0	
114.00	60	34	49	18	11	16	13	12	0	12	1.33	39.9	44		2275.0	
109.40	70	41	62	22	15	19	19	15	0	15	1.27	38.6	54		2311.0	
106.00	63	30	54	21	12	17	21	17	0	9	1.89	40.6	48		2609.0	
102.00	69	29	61	23	15	19	19	17	0	14	1.36	39.9	54		2638.0	
100.10	60	32	47	26	16	19	23	16	0	10	1.90	40.9	56		3197.0	
Griffy Run (02-076)																
Year: 2010																
1.10	36		36	8		8		13	0	5	1.60	42.6		G	4.9	
Dry Run (02-077)																
Year: 2010																
4.35	44		44	6		6		9	0	10	0.60	38.6		MG	4.1	
0.50	56		56	7		7		14	1	10	0.70	40.6		G	18.4	
Van Meter Run (02-088)																
Year: 2010																
1.00	71		71	10		10		16	0	16	0.63	40.1		G	5.8	
Grove Run (02-089)																
Year: 2010																
1.58	38		38	6		6		10	1	7	0.86	40.5		MG	5.6	
Plum Run (02-090)																
Year: 2010																
0.72	46		46	6		6		6	2	12	0.50	38.6		F	7.0	
Grant Run (02-091)																
Year: 2010																
2.00	43		43	6		6		10	0	10	0.60	38.2		MG	7.8	
0.20	51		51	5		5		11	0	12	0.42	38.3		MG	14.1	
Scioto Big Run (02-092)																
Year: 2010																
4.40	30		30	3		3		5	0	7	0.43	38.2		LF	11.8	
2.90	33		33	1		1		7	0	7	0.14	39.2		F	17.6	
Year: 2008																
11.00	14		14	0		0		1	0	10	0.00	29.2		LF	0.7	X16
10.80	16		16	1		1		1	0	9	0.11	31.4		HF	0.7	X16
Year: 2007																
8.40	18		18	0		0		3	0	5	0.00	34.8		LF	2.9	X16
7.10	30		30	1		1		6	2	6	0.17	37.6		MG	5.8	X16
3.70	21		21	1		1		4	1	5	0.20	35.6		HF	11.9	X16
2.70	22		22	1		1		4	0	6	0.17	39.4		HF	17.6	X16
1.80	27		27	2		2		6	0	4	0.50	39.9		MG	18.5	X16

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW Taxa	Ql.	Ql.	QCTV	ICI	Nar.	Drain	Comments
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.		Taxa	Tol.					
Dry Run (02-095)																
Year: 2010																
1.40	24		24	2		2		6	1	5	0.40	39.1		F		7.0
Hayden Run (02-097)																
Year: 2010																
0.83	39		39	5		5		8	0	11	0.45	38.6		F		7.0
North Fork Indian Run (02-098)																
Year: 2010																
5.20	48		48	1		1		5	0	24	0.04	34.7		LF		5.6
1.80	43		43	1		1		6	0	16	0.06	36.4		LF		10.2
South Fork Indian Run (02-099)																
Year: 2010																
1.30	39		39	2		2		7	0	13	0.15	36.0		LF		6.0
Eversole Run (02-108)																
Year: 2010																
2.20	44		44	8		8		8	1	13	0.62	37.1		MG		4.3
1.30	47		47	11		11		13	0	13	0.85	38.6		G		10.5
Year: 1999																
0.60	14		14	1		1		1	0	8	0.13	24.9				14.1 X2,8
Year: 1994																
1.30	30		30	2		2		3	0	11	0.18	32.6		F		9.8
Bokes Creek (02-138)																
Year: 2010																
27.22	68	28	55	6	3	4	13	12	0	18	0.22	35.5	38			35.0
22.30	64	25	54	14	6	12	16	14	0	9	1.33	39.7	46			45.0
20.20	42	23	29	7	4	6	9	7	0	5	1.20	39.7	38			51.0
14.73	56	24	44	12	6	9	15	13	0	10	0.90	38.6	38			60.0
Powderlick Run (02-144)																
Year: 2010																
3.40	30		30	0		0		3	0	21	0.00	29.6		LF		1.8
1.20	18		18	0		0		0	0	10	0.00	31.8		P		3.5
Kian Run (02-197)																
Year: 2010																
0.45	13		13	0		0		0	1	8	0.00	29.2		VP		9.1
Republican Run (02-243)																
Year: 2010																
1.38	27		27	1		1		4	0	10	0.10	35.7		LF		5.7
Trabue Run (02-266)																
Year: 2010																
0.28	25		25	1		1		5	0	4	0.25	38.3		LF		6.6
Peters Run (02-368)																

River Mile	All Taxa			Sen. Taxa			EPT Taxa		CW Taxa	Ql.	Ql.	QCTV	ICI	Nar.	Drain	Comments
	Total	Qt.	Ql.	Total	Qt.	Ql.	Total	Ql.		Tol.	S					
Year: 2010																
1.75	46		46	8		8	13		0	6	1.33	41.5		G		7.2

Appendix I – Invertebrate Community Index (ICI) metrics, 1996-2010.

River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	Eco-region	ICI
		Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tany-tarsini	Other Dipt/NI	Tolerant Organisms			
Scioto River (02-001)													
Year: 2010													
127.74	1628	33(6)	3(2)	9(6)	12(6)	0.2(2)	39.6(6)	2.3(2)	57.7(0)	4.3(0)	16(6)	5	36
125.50	1636	32(4)	2(0)	9(6)	13(6)	0.7(2)	29.0(4)	7.3(2)	63.0(0)	29.3(0)	11(4)	5	28
109.40	2311	24(4)	6(4)	7(6)	7(4)	19.3(6)	54.4(6)	6.9(2)	18.4(4)	0.8(6)	18(6)	5	48
102.14	2638	24(4)	6(4)	6(4)	10(6)	19.6(6)	54.5(6)	6.9(2)	18.7(4)	0.0(6)	24(6)	5	48

River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	Eco-region	ICI
		Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddisflies	Tanytarsini	Other Dipt/NI	Tolerant Organisms			
Scioto River (02-001)													
Year: 2009													
174.20	530.0	25(4)	1(0)	1(2)	14(4)	3.3(2)	0.8(2)	0.0(0)	95.7(0)	19.0(0)	2(0)	5	14
169.25	567.0	34(4)	7(4)	5(4)	13(4)	8.4(2)	29.5(6)	7.4(2)	54.1(0)	1.4(6)	20(6)	5	38
163.80	660.0	41(6)	10(6)	9(6)	12(4)	26.4(4)	23.4(4)	29.9(6)	19.3(4)	0.3(6)	22(6)	5	52
157.10	764.0	36(6)	8(6)	6(6)	10(4)	12.5(2)	40.5(6)	35.4(6)	10.0(6)	0.6(6)	20(6)	5	54
145.50	990.0	30(4)	8(6)	4(4)	8(2)	29.6(6)	15.1(2)	12.2(2)	42.9(0)	0.8(6)	18(6)	5	38
136.20	1049	47(6)	6(4)	6(4)	25(6)	11.5(2)	11.6(2)	4.7(2)	71.3(0)	7.4(0)	16(4)	5	30
131.80 A	1611	28(4)	1(0)	2(2)	4(2)	0.2(2)	0.2(0)	0.0(0)	99.5(0)	11.1(0)	0(0)	5	10
131.80 B	1611	5(0)	0(0)	0(0)	2(0)	0.0(0)	0.0(0)	0.0(0)	100(0)	31.5(0)	0(0)	5	0
129.10	1621	28(4)	3(2)	8(6)	8(4)	0.5(2)	45.2(6)	0.0(0)	54.2(0)	21.7(0)	12(4)	5	28
126.00	1636	20(2)	1(0)	6(4)	9(4)	0.0(2)	4.9(0)	1.3(2)	93.8(0)	76.3(0)	7(2)	5	16
119.90	1697	33(6)	4(2)	8(6)	14(6)	9.7(2)	56.8(6)	2.3(2)	31.0(2)	4.4(0)	13(4)	5	36
117.60	1709	32(4)	4(2)	9(6)	13(6)	8.5(2)	42.0(6)	9.2(2)	40.2(0)	4.7(0)	13(4)	5	32
116.30	2267	32(4)	5(4)	7(6)	10(6)	7.5(2)	54.9(6)	15.5(4)	21.8(2)	1.8(4)	19(6)	5	44
109.40	2311	34(6)	7(4)	9(6)	12(6)	25.7(6)	39.9(6)	18.3(6)	15.9(4)	0.6(6)	14(4)	5	54
105.30	2615	37(6)	7(4)	11(6)	8(4)	28.4(6)	23.8(4)	36.2(6)	11.4(6)	0.8(6)	12(4)	5	52
100.00	3217	34(6)	9(6)	10(6)	11(6)	26.3(6)	18.2(2)	42.1(6)	13.1(4)	0.0(6)	24(6)	5	54
Year: 1997													
100.10	3197	35(6)	8(6)	8(6)	9(6)	22.6(6)	67.7(6)	4.5(2)	4.8(6)	0.3(6)	15(6)	5	56
Year: 1996													
136.30	1053	29(4)	9(6)	7(6)	7(2)	24.9(6)	34.5(6)	17.4(4)	23.2(4)	0.3(6)	15(4)	5	48
129.00	1621	27(4)	1(0)	6(4)	11(6)	0.0(2)	30.1(4)	0.0(0)	69.8(0)	13.4(0)	6(2)	5	22
127.80	1628	18(2)	0(0)	6(4)	6(2)	0.0(0)	42.4(6)	0.0(0)	57.3(0)	1.8(4)	5(0)	5	18
126.50	1629	28(4)	0(0)	7(6)	11(6)	0.0(0)	21.3(4)	0.6(2)	78.1(0)	24.6(0)	4(0)	5	22
123.20	1667	36(6)	3(2)	7(6)	15(6)	0.2(2)	38.2(6)	8.2(2)	53.3(0)	7.3(0)	6(2)	5	32
119.30	1697	32(4)	5(4)	7(6)	10(4)	1.9(2)	29.2(4)	29.0(6)	39.9(0)	1.5(4)	9(2)	5	36
117.30	1709	34(6)	5(4)	8(6)	11(6)	2.8(2)	36.5(6)	33.1(6)	26.4(2)	1.7(4)	11(4)	5	46
116.30	2267	38(6)	5(4)	7(6)	16(6)	2.7(2)	24.6(4)	22.0(6)	50.5(0)	3.1(2)	13(4)	5	40
114.00	2275	34(6)	5(4)	8(6)	13(6)	8.6(2)	41.4(6)	14.9(4)	34.9(0)	0.5(6)	12(4)	5	44
109.40	2311	41(6)	7(4)	10(6)	11(6)	11.2(4)	49.2(6)	20.6(6)	18.3(4)	1.1(6)	15(6)	5	54
106.00	2609	30(4)	6(4)	9(6)	8(4)	8.2(2)	54.6(6)	17.4(6)	19.4(4)	0.0(6)	17(6)	5	48
102.00	2638	29(4)	9(6)	7(6)	10(6)	17.7(4)	49.5(6)	16.4(6)	16.0(4)	0.0(6)	17(6)	5	54
100.10	3197	32(6)	9(6)	9(6)	9(6)	23.6(6)	53.7(6)	9.3(4)	13.1(4)	0.0(6)	16(6)	5	56
Bokes Creek (02-138)													
Year: 2010													
27.22	35.0	28(4)	4(2)	3(4)	15(4)	26.3(4)	16.7(6)	4.4(2)	50.7(2)	1.3(6)	12(4)	5	38
22.30	45.0	25(4)	6(4)	3(4)	7(2)	46.3(6)	16.2(6)	6.6(2)	26.7(6)	0.0(6)	14(6)	5	46
20.20	51.0	23(2)	6(4)	1(2)	10(2)	57.7(6)	21.2(6)	3.7(2)	16.2(6)	1.6(6)	7(2)	5	38

River Mile	Drainage Area (sq mi)	Number of				Percent:					Qual. EPT	Eco- region	ICI
		Total Taxa	Mayfly Taxa	Caddisfly Taxa	Dipteran Taxa	Mayflies	Caddis- flies	Tany- tarsini	Other Dipt/NI	Tolerant Organisms			
Bokes Creek (02-138)													
Year: 2010													
14.73	60.0	24(2)	7(4)	2(4)	9(2)	48.9(6)	6.8(4)	5.6(2)	38.3(4)	0.4(6)	13(4)	5	38

Appendix J – Macroinvertebrate taxa, 1996-2010.

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/19/2010 River Code: 02-001 RM: 127.74

Frank Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	77130	<i>Ablabesmyia rhamphe group</i>	57 +
01320	<i>Hydra sp</i>	128	77470	<i>Coelotanypus sp</i>	+
01418	<i>Craspedacusta sowerbyi</i>	2	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	113
01801	<i>Turbellaria</i>	67 +	78655	<i>Procladius (Holotanypus) sp</i>	+
03121	<i>Paludicella articulata</i>	+	80410	<i>Cricotopus (C.) sp</i>	57
03360	<i>Plumatella sp</i>	3 +	81240	<i>Nanocladius (N.) distinctus</i>	283 +
03451	<i>Urnatella gracilis</i>	+	83051	<i>Dicrotendipes simpsoni</i>	113
03600	<i>Oligochaeta</i>	128 +	83250	<i>Gillotia alboviridis</i>	+
04615	<i>Actinobdella inequiannulata</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	396 +
04661	<i>Helobdella elongata</i>	+	84020	<i>Parachironomus carinatus</i>	57
04666	<i>Helobdella triserialis</i>	+	84300	<i>Phaenopsectra obediens group</i>	57
04960	<i>Mooreobdella sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	5320 +
05800	<i>Caecidotea sp</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
06201	<i>Hyaella azteca</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	57 +
06700	<i>Crangonyx sp</i>	+	84888	<i>Xenochironomus xenolabis</i>	57 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85625	<i>Rheotanytarsus sp</i>	283 +
11130	<i>Baetis intercalaris</i>	25 +	93200	<i>Hydrobiidae</i>	1 +
11670	<i>Proclaeon viridoculare</i>	+	93900	<i>Elimia sp</i>	68 +
13400	<i>Stenacron sp</i>	+	96900	<i>Ferrissia sp</i>	+
13510	<i>Maccaffertium exiguum</i>	2	97601	<i>Corbicula fluminea</i>	+
13521	<i>Stenonema femoratum</i>	+	98600	<i>Sphaerium sp</i>	+
16700	<i>Tricorythodes sp</i>	2 +	99640	<i>Truncilla donaciformis</i>	+
17200	<i>Caenis sp</i>	+			
18100	<i>Anthopotamus sp</i>	+			
22001	<i>Coenagrionidae</i>	+	No. Quantitative Taxa: 33		Total Taxa: 66
22300	<i>Argia sp</i>	+	No. Qualitative Taxa: 57		ICI: 36
42700	<i>Belostoma sp</i>	+	Number of Organisms: 12063		Qual EPT: 16
43300	<i>Ranatra sp</i>	+			
45300	<i>Sigara sp</i>	+			
49200	<i>Climacia sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	139 +			
52200	<i>Cheumatopsyche sp</i>	2725 +			
52430	<i>Ceratopsyche morosa group</i>	1			
52520	<i>Hydropsyche bidens</i>	300 +			
52560	<i>Hydropsyche orris</i>	1111 +			
52570	<i>Hydropsyche simulans</i>	21 +			
52580	<i>Hydropsyche valanis</i>	303 +			
52801	<i>Potamyia flava</i>	76 +			
53800	<i>Hydroptila sp</i>	98 +			
59160	<i>Ceraclea spongillovorax</i>	+			
59970	<i>Petrophila sp</i>	12 +			
65800	<i>Berosus sp</i>	+			
69400	<i>Stenelmis sp</i>	1 +			
77120	<i>Ablabesmyia mallochi</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/19/2010 River Code: 02-001 RM: 125.50

dst Jackson Pike WWTP, near trailer park

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	32	84300	<i>Phaenopsectra obediens group</i>	+
01801	<i>Turbellaria</i>	21 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	4490 +
03121	<i>Paludicella articulata</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	100 +
03360	<i>Plumatella sp</i>	2	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
03451	<i>Urnatella gracilis</i>	+	85625	<i>Rheotanytarsus sp</i>	1497 +
03600	<i>Oligochaeta</i>	4321 +	87540	<i>Hemerodromia sp</i>	1
04666	<i>Helobdella triserialis</i>	+	93200	<i>Hydrobiidae</i>	69 +
04962	<i>Mooreobdella fervida</i>	+	93900	<i>Elimia sp</i>	329 +
05800	<i>Caecidotea sp</i>	+	94400	<i>Fossaria sp</i>	+
06201	<i>Hyalella azteca</i>	+	96900	<i>Ferrissia sp</i>	19 +
11130	<i>Baetis intercalaris</i>	137 +	97710	<i>Dreissena polymorpha</i>	+
13400	<i>Stenacron sp</i>	+	99240	<i>Lasmigona complanata</i>	+
16700	<i>Tricorythodes sp</i>	1 +			
17200	<i>Caenis sp</i>	+	No. Quantitative Taxa: 32		Total Taxa: 56
22001	<i>Coenagrionidae</i>	+	No. Qualitative Taxa: 47		ICI: 28
22300	<i>Argia sp</i>	+	Number of Organisms: 20620		Qual EPT: 11
24107	<i>Nasiaeschna pentacantha</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	2			
52200	<i>Cheumatopsyche sp</i>	5599 +			
52430	<i>Ceratopsyche morosa group</i>	1			
52520	<i>Hydropsyche bidens</i>	5 +			
52560	<i>Hydropsyche orris</i>	130 +			
52570	<i>Hydropsyche simulans</i>	90 +			
52580	<i>Hydropsyche valanis</i>	91 +			
52801	<i>Potamyia flava</i>	5 +			
53800	<i>Hydroptila sp</i>	67 +			
59970	<i>Petrophila sp</i>	1 +			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	100			
80420	<i>Cricotopus (C.) bicinctus</i>	100 +			
80430	<i>Cricotopus (C.) tremulus group</i>	499 +			
81240	<i>Nanocladius (N.) distinctus</i>	1397 +			
82121	<i>Thienemanniella lobapodema</i>	32			
82130	<i>Thienemanniella similis</i>	384			
82730	<i>Chironomus (C.) decorus group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83050	<i>Dicrotendipes lucifer</i>	499 +			
83051	<i>Dicrotendipes simpsoni</i>	100			
83300	<i>Glyptotendipes (G.) sp</i>	499 +	142		

Ohio EPA/DW/ESW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/20/2010 River Code: 02-001 RM: 109.40

St. Rt. 316

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	17	83250	<i>Gillotia alboviridis</i>	+
03360	<i>Plumatella sp</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	+
03451	<i>Urnatella gracilis</i>	1	84450	<i>Polypedilum (Uresipedilum) flavum</i>	900 +
03600	<i>Oligochaeta</i>	8 +	84460	<i>Polypedilum (P.) fallax group</i>	9
04664	<i>Helobdella stagnalis</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
04666	<i>Helobdella triserialis</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
05800	<i>Caecidotea sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
11121	<i>Labiobaetis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	391 +
11130	<i>Baetis intercalaris</i>	673 +	93900	<i>Elimia sp</i>	+
12200	<i>Isonychia sp</i>	1 +	94400	<i>Fossaria sp</i>	+
13510	<i>Maccaffertium exiguum</i>	332 +	96900	<i>Ferrissia sp</i>	+
13550	<i>Maccaffertium mexicanum integrum</i>	1	97601	<i>Corbicula fluminea</i>	+
13561	<i>Maccaffertium pulchellum</i>	52	97710	<i>Dreissena polymorpha</i>	+
13570	<i>Maccaffertium terminatum</i>	+	98600	<i>Sphaerium sp</i>	+
16700	<i>Tricorythodes sp</i>	35 +	99240	<i>Lasmigona complanata</i>	+
17200	<i>Caenis sp</i>	+	99320	<i>Tritogonia verrucosa</i>	+
22001	<i>Coenagrionidae</i>	+	99640	<i>Truncilla donaciformis</i>	+
22300	<i>Argia sp</i>	+	99680	<i>Leptodea fragilis</i>	+
45100	<i>Palmacorixa sp</i>	+			
45300	<i>Sigara sp</i>	+	No. Quantitative Taxa: 24		Total Taxa: 62
45400	<i>Trichocorixa sp</i>	+	No. Qualitative Taxa: 55		ICI: 48
50315	<i>Chimarra obscura</i>	+	Number of Organisms: 5679		Qual EPT: 18
51300	<i>Neureclipsis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	177 +			
52430	<i>Ceratopsyche morosa group</i>	44 +			
52520	<i>Hydropsyche bidens</i>	348 +			
52560	<i>Hydropsyche orris</i>	1400 +			
52570	<i>Hydropsyche simulans</i>	991 +			
52801	<i>Potamyia flava</i>	130 +			
53400	<i>Protophila sp</i>	+			
54160	<i>Ochrotrichia sp</i>	1 +			
59407	<i>Nectopsyche candida</i>	+			
59970	<i>Petrophila sp</i>	+			
65800	<i>Berosus sp</i>	+			
69400	<i>Stenelmis sp</i>	56 +			
74100	<i>Simulium sp</i>	16 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	45 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
81240	<i>Nanocladius (N.) distinctus</i>	27			
82130	<i>Thienemanniella similis</i>	24			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+	143		

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/21/2010 River Code: 02-001 RM: 102.14

Commercial Point Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	80360	<i>Corynoneura floridaensis</i>	8
01801	<i>Turbellaria</i>	1 +	81240	<i>Nanocladius (N.) distinctus</i>	+
03360	<i>Plumatella sp</i>	+	82130	<i>Thienemanniella similis</i>	8 +
03600	<i>Oligochaeta</i>	+	82220	<i>Tvetenia discoloripes group</i>	20
04666	<i>Helobdella triserialis</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82820	<i>Cryptochironomus sp</i>	+
11119	<i>Plauditus dubius or P. virilis</i>	+	83250	<i>Gillotia alboviridis</i>	+
11130	<i>Baetis intercalaris</i>	695 +	83300	<i>Glyptotendipes (G.) sp</i>	20 +
12200	<i>Isonychia sp</i>	112 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	977 +
13000	<i>Leucrocuta sp</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
13510	<i>Maccaffertium exiguum</i>	601 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	41
13570	<i>Maccaffertium terminatum</i>	1 +	85625	<i>Rheotanytarsus sp</i>	488 +
16700	<i>Tricorythodes sp</i>	32 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	20
17200	<i>Caenis sp</i>	8 +	93900	<i>Elimia sp</i>	+
18100	<i>Anthopotamus sp</i>	+	96900	<i>Ferrissia sp</i>	+
22001	<i>Coenagrionidae</i>	+	97710	<i>Dreissena polymorpha</i>	+
24900	<i>Gomphus sp</i>	+	98600	<i>Sphaerium sp</i>	+
34600	<i>Perlinella sp</i>	+	99640	<i>Truncilla donaciformis</i>	+
45300	<i>Sigara sp</i>	+	99660	<i>Truncilla truncata</i>	+
45400	<i>Trichocorixa sp</i>	+			
50315	<i>Chimarra obscura</i>	+	No. Quantitative Taxa: 24		Total Taxa: 63
51206	<i>Cyrnellus fraternus</i>	+	No. Qualitative Taxa: 59		ICI: 48
51300	<i>Neureclipsis sp</i>	+	Number of Organisms: 7396		Qual EPT: 24
52200	<i>Cheumatopsyche sp</i>	383 +			
52430	<i>Ceratopsyche morosa group</i>	83 +			
52520	<i>Hydropsyche bidens</i>	294 +			
52560	<i>Hydropsyche orris</i>	1172 +			
52570	<i>Hydropsyche simulans</i>	1134 +			
52801	<i>Potamyia flava</i>	966 +			
53400	<i>Protophila sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
54160	<i>Ochrotrichia sp</i>	+			
59160	<i>Ceraclea spongillovorax</i>	+			
59407	<i>Nectopsyche candida</i>	+			
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	27 +			
74100	<i>Simulium sp</i>	40 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	265 +			
78655	<i>Procladius (Holotanypus) sp</i>	+	144		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River
St. Rt. 4

Collection Date: 09/14/2009 River Code: 02-001 RM: 174.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	63			
01801	<i>Turbellaria</i>	9 +			
03360	<i>Plumatella sp</i>	1 +			
03451	<i>Urnatella gracilis</i>	1			
03600	<i>Oligochaeta</i>	145 +			
04666	<i>Helobdella triserialis</i>	+			
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
13400	<i>Stenacron sp</i>	56 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	3 +			
45400	<i>Trichocorixa sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	+			
51600	<i>Polycentropus sp</i>	13			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
69400	<i>Stenelmis sp</i>	+			
74501	<i>Ceratopogonidae</i>	8			
77120	<i>Ablabesmyia mallochi</i>	13			
77130	<i>Ablabesmyia rhamphe group</i>	25 +			
80370	<i>Corynoneura lobata</i>	4			
82141	<i>Thienemanniella xena</i>	4			
82730	<i>Chironomus (C.) decorus group</i>	+			
83002	<i>Dicrotendipes modestus</i>	366			
83040	<i>Dicrotendipes neomodestus</i>	13 +			
83051	<i>Dicrotendipes simpsoni</i>	50			
83158	<i>Endochironomus nigricans</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	518 +			
83840	<i>Microtendipes pedellus group</i>	+			
84000	<i>Parachironomus sp</i>	13			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	13			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	13			
84790	<i>Tribelos fuscicorne</i>	164 +			
84800	<i>Tribelos jucundum</i>	25			
95100	<i>Physella sp</i>	3 +			
96100	<i>Menetus (Micromenetus) sp</i>	31 +			
96900	<i>Ferrissia sp</i>	121 +			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/13/2009 River Code: 02-001 RM: 169.25

Hoskins Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	1408	77500	<i>Conchapelopia sp</i>	26
01801	<i>Turbellaria</i>	1 +	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	181
03360	<i>Plumatella sp</i>	25			
03600	<i>Oligochaeta</i>	+	77800	<i>Helopelopia sp</i>	+
05900	<i>Lirceus sp</i>	1 +	78450	<i>Nilotanypus fimbriatus</i>	104
06201	<i>Hyaella azteca</i>	+	78500	<i>Paramerina fragilis</i>	+
06700	<i>Crangonyx sp</i>	+	78655	<i>Procladius (Holotanypus) sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	80410	<i>Cricotopus (C.) sp</i>	78
08601	<i>Hydrachnidia</i>	+	81240	<i>Nanocladius (N.) distinctus</i>	104
11120	<i>Baetis flavistriga</i>	42 +	82101	<i>Thienemanniella taurocapita</i>	68
11130	<i>Baetis intercalaris</i>	214 +	82730	<i>Chironomus (C.) decorus group</i>	+
11200	<i>Callibaetis sp</i>	+	82820	<i>Cryptochironomus sp</i>	+
11650	<i>Proclaeon sp (w/ hindwing pads)</i>	+	83040	<i>Dicrotendipes neomodestus</i>	104 +
12200	<i>Isonychia sp</i>	1	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	26
13000	<i>Leucrocuta sp</i>	+	83840	<i>Microtendipes pedellus group</i>	+
13400	<i>Stenacron sp</i>	4 +	84040	<i>Parachironomus frequens</i>	52
13521	<i>Stenonema femoratum</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1943 +
13561	<i>Maccaffertium pulchellum</i>	369 +	84470	<i>Polypedilum (P.) illinoense</i>	+
13570	<i>Maccaffertium terminatum</i>	13 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	26 +
16700	<i>Tricorythodes sp</i>	2 +	84800	<i>Tribelos jucundum</i>	+
17200	<i>Caenis sp</i>	+	84960	<i>Pseudochironomus sp</i>	+
18100	<i>Anthopotamus sp</i>	+	85263	<i>Cladotanytarsus vanderwulpi group sp 3</i>	+
18600	<i>Ephemera sp</i>	+	85625	<i>Rheotanytarsus sp</i>	384 +
22001	<i>Coenagrionidae</i>	+	85800	<i>Tanytarsus sp</i>	+
22300	<i>Argia sp</i>	2	85821	<i>Tanytarsus glabrescens group sp 7</i>	181
45400	<i>Trichocorixa sp</i>	+	93900	<i>Elimia sp</i>	4 +
51400	<i>Nyctiophylax sp</i>	+	98600	<i>Sphaerium sp</i>	+
51600	<i>Polycentropus sp</i>	+	99100	<i>Pyganodon grandis</i>	+
52200	<i>Cheumatopsyche sp</i>	268 +			
52430	<i>Ceratopsyche morosa group</i>	584 +	No. Quantitative Taxa: 34		Total Taxa: 71
52520	<i>Hydropsyche bidens</i>	1363 +	No. Qualitative Taxa: 55		ICI: 38
52590	<i>Hydropsyche venularis</i>	49	Number of Organisms: 7672		Qual EPT: 20
53400	<i>Protophila sp</i>	+			
53800	<i>Hydroptila sp</i>	1			
57400	<i>Neophylax sp</i>	+			
59970	<i>Petrophila sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	1 +			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	42 +			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			

146

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/14/2009 River Code: 02-001 RM: 163.80

Mink St.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	18	77120	<i>Ablabesmyia mallochi</i>	26
01801	<i>Turbellaria</i>	36 +	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	79 +
02600	<i>Nematomorpha</i>	+	78450	<i>Nilotanypus fimbriatus</i>	79
03360	<i>Plumatella sp</i>	+	78655	<i>Procladius (Holotanypus) sp</i>	+
03451	<i>Urnatella gracilis</i>	9	78750	<i>Rheopelopia paramaculipennis</i>	53
03600	<i>Oligochaeta</i>	16 +	82101	<i>Thienemanniella taurocapita</i>	16
05900	<i>Lirceus sp</i>	+	82820	<i>Cryptochironomus sp</i>	+
06201	<i>Hyalella azteca</i>	+	83040	<i>Dicrotendipes neomodestus</i>	26
06700	<i>Crangonyx sp</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	53 +
11020	<i>Acerpenna pygmaea</i>	1	83840	<i>Microtendipes pedellus group</i>	79 +
11120	<i>Baetis flavistriga</i>	58 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	553 +
11130	<i>Baetis intercalaris</i>	198 +	84460	<i>Polypedilum (P.) fallax group</i>	+
11600	<i>Paracloeodes fleeki</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	26
12200	<i>Isonychia sp</i>	5	84960	<i>Pseudochironomus sp</i>	+
13000	<i>Leucrocuta sp</i>	19 +	85500	<i>Paratanytarsus sp</i>	+
13400	<i>Stenacron sp</i>	393 +	85625	<i>Rheotanytarsus sp</i>	1632 +
13561	<i>Maccaffertium pulchellum</i>	434 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	26
13570	<i>Maccaffertium terminatum</i>	131	93200	<i>Hydrobiidae</i>	+
16700	<i>Tricorythodes sp</i>	195 +	96900	<i>Ferrissia sp</i>	1
17200	<i>Caenis sp</i>	29 +	98600	<i>Sphaerium sp</i>	+
18100	<i>Anthopotamus sp</i>	+			
18600	<i>Ephemera sp</i>	+			
21300	<i>Hetaerina sp</i>	1 +	No. Quantitative Taxa: 41 Total Taxa: 65		
22001	<i>Coenagrionidae</i>	+	No. Qualitative Taxa: 51 ICI: 52		
22300	<i>Argia sp</i>	4 +	Number of Organisms: 5536 Qual EPT: 22		
34700	<i>Agnatina capitata complex</i>	+			
45100	<i>Palmarcorixa sp</i>	+			
50315	<i>Chimarra obscura</i>	19 +			
50804	<i>Lype diversa</i>	1			
51400	<i>Nyctiophylax sp</i>	1 +			
51600	<i>Polycentropus sp</i>	34 +			
52200	<i>Cheumatopsyche sp</i>	1109 +			
52430	<i>Ceratopsyche morosa group</i>	70 +			
52510	<i>Hydropsyche aerata</i>	34 +			
52560	<i>Hydropsyche orris</i>	22 +			
52590	<i>Hydropsyche venularis</i>	7 +			
53800	<i>Hydroptila sp</i>	+			
57400	<i>Neophylax sp</i>	+			
59970	<i>Petrophila sp</i>	2 +			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	37 +			
69400	<i>Stenelmis sp</i>	4 +			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/14/2009 River Code: 02-001 RM: 157.10

1.7 mi. upst. Mill Creek adj. Klondike Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	8	80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	32
01801	<i>Turbellaria</i>	1 +			
03360	<i>Plumatella sp</i>	1 +	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	22
03451	<i>Urnatella gracilis</i>	1			
03600	<i>Oligochaeta</i>	24	82101	<i>Thienemanniella taurocapita</i>	8
04666	<i>Helobdella triserialis</i>	+	83040	<i>Dicrotendipes neomodestus</i>	+
05900	<i>Lirceus sp</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	22 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
11119	<i>Plauditus dubius or P. virilis</i>	2	83840	<i>Microtendipes pedellus group</i>	+
11120	<i>Baetis flavistriga</i>	33 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	221 +
11130	<i>Baetis intercalaris</i>	166 +	84470	<i>Polypedilum (P.) illinoense</i>	+
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
12200	<i>Isonychia sp</i>	20 +	85625	<i>Rheotanytarsus sp</i>	1462 +
13000	<i>Leucrocuta sp</i>	+	85800	<i>Tanytarsus sp</i>	22 +
13400	<i>Stenacron sp</i>	67 +	87540	<i>Hemerodromia sp</i>	9
13510	<i>Maccaffertium exiguum</i>	2	93200	<i>Hydrobiidae</i>	1 +
13521	<i>Stenonema femoratum</i>	+	93900	<i>Elimia sp</i>	3 +
13561	<i>Maccaffertium pulchellum</i>	209 +	96900	<i>Ferrissia sp</i>	+
13570	<i>Maccaffertium terminatum</i>	+	97601	<i>Corbicula fluminea</i>	+
16700	<i>Tricorythodes sp</i>	26 +	98600	<i>Sphaerium sp</i>	2
17200	<i>Caenis sp</i>	+			
18100	<i>Anthopotamus sp</i>	+			
22001	<i>Coenagrionidae</i>	+	No. Quantitative Taxa: 36		Total Taxa: 62
22300	<i>Argia sp</i>	+	No. Qualitative Taxa: 46		ICI: 54
34700	<i>Agetina capitata complex</i>	34 +	Number of Organisms: 4195		Qual EPT: 20
50315	<i>Chimarra obscura</i>	2 +			
51600	<i>Polycentropus sp</i>	1			
52200	<i>Cheumatopsyche sp</i>	886 +			
52430	<i>Ceratopsyche morosa group</i>	731 +			
52510	<i>Hydropsyche aerata</i>	77 +			
52590	<i>Hydropsyche venularis</i>	2			
57400	<i>Neophylax sp</i>	+			
57900	<i>Pycnopsyche sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59970	<i>Petrophila sp</i>	6			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68901	<i>Macronychus glabratus</i>	7			
69400	<i>Stenelmis sp</i>	19 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	44			
78450	<i>Nilotanytus fimbriatus</i>	22	148		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/16/2009 River Code: 02-001 RM: 145.50

I-270

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	78450	<i>Nilotanypus fimbriatus</i>	45
01320	<i>Hydra sp</i>	1	80310	<i>Cardiocladius obscurus</i>	+
01801	<i>Turbellaria</i>	402 +	80370	<i>Corynoneura lobata</i>	208 +
03121	<i>Paludicella articulata</i>	1	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	267 +
03360	<i>Plumatella sp</i>	1	82220	<i>Tvetenia discoloripes group</i>	133
03451	<i>Urnatella gracilis</i>	1	82820	<i>Cryptochironomus sp</i>	+
03600	<i>Oligochaeta</i>	80 +	83040	<i>Dicrotendipes neomodestus</i>	+
05800	<i>Caecidotea sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	3113 +
05900	<i>Lirceus sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
06201	<i>Hyalella azteca</i>	+	84490	<i>Polypedilum (Cerobregma) ontario</i>	+
06700	<i>Crangonyx sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	45 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84700	<i>Stenochironomus sp</i>	+
11119	<i>Plauditus dubius or P. virilis</i>	18 +	84960	<i>Pseudochironomus sp</i>	+
11120	<i>Baetis flavistriga</i>	177 +	85263	<i>Cladotanytarsus vanderwulpi group sp 3</i>	+
11130	<i>Baetis intercalaris</i>	2414 +	85625	<i>Rheotanytarsus sp</i>	1245 +
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
12200	<i>Isonychia sp</i>	1	93200	<i>Hydrobiidae</i>	+
13000	<i>Leucrocuta sp</i>	12 +	93900	<i>Elimia sp</i>	+
13400	<i>Stenacron sp</i>	92 +	95100	<i>Physella sp</i>	+
13510	<i>Maccaffertium exiguum</i>	38	96900	<i>Ferrissia sp</i>	+
13561	<i>Maccaffertium pulchellum</i>	277 +	97601	<i>Corbicula fluminea</i>	49 +
16700	<i>Tricorythodes sp</i>	+	98600	<i>Sphaerium sp</i>	+
22001	<i>Coenagrionidae</i>	+	99100	<i>Pyganodon grandis</i>	+
22300	<i>Argia sp</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
34700	<i>Agnatina capitata complex</i>	2 +			
42700	<i>Belostoma sp</i>	+	No. Quantitative Taxa: 30		Total Taxa: 68
50315	<i>Chimarra obscura</i>	1243 +	No. Qualitative Taxa: 59		ICI: 38
51400	<i>Nyctiophylax sp</i>	+	Number of Organisms: 10218		Qual EPT: 18
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	135 +			
52430	<i>Ceratopsyche morosa group</i>	165 +			
52510	<i>Hydropsyche aerata</i>	1			
53400	<i>Protophila sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59110	<i>Ceraclea ancyclus</i>	+			
59970	<i>Petrophila sp</i>	2 +			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	17 +			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	33 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77800	<i>Helopelopia sp</i>	+			
78140	<i>Labrundinia pilosella</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/17/2009 River Code: 02-001 RM: 136.20

dst. Fifth Ave.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	77130	<i>Ablabesmyia rhamphe group</i>	207
01320	<i>Hydra sp</i>	+	77500	<i>Conchapelopia sp</i>	103
01801	<i>Turbellaria</i>	962 +	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	103
03121	<i>Paludicella articulata</i>	+	78140	<i>Labrundinia pilosella</i>	+
03360	<i>Plumatella sp</i>	20 +	78450	<i>Nilotanypus fimbriatus</i>	207
03600	<i>Oligochaeta</i>	672 +	78750	<i>Rheopelopia paramaculipennis</i>	103
04664	<i>Helobdella stagnalis</i>	+	80310	<i>Cardiocladius obscurus</i>	+
04935	<i>Erpobdella punctata punctata</i>	1	80370	<i>Corynoneura lobata</i>	224
05800	<i>Caecidotea sp</i>	+	80410	<i>Cricotopus (C.) sp</i>	413 +
06201	<i>Hyaella azteca</i>	+	80420	<i>Cricotopus (C.) bicinctus</i>	+
06700	<i>Crangonyx sp</i>	+	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	827
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	81240	<i>Nanocladius (N.) distinctus</i>	413 +
11120	<i>Baetis flavistriga</i>	156 +	81250	<i>Nanocladius (N.) minimus</i>	413
11130	<i>Baetis intercalaris</i>	1686 +	81270	<i>Nanocladius (N.) spiniplenus</i>	+
13000	<i>Leucrocuta sp</i>	+	82101	<i>Thienemanniella taurocapita</i>	64
13400	<i>Stenacron sp</i>	35 +	82121	<i>Thienemanniella lobapodema</i>	128
13521	<i>Stenonema femoratum</i>	+	82130	<i>Thienemanniella similis</i>	+
13561	<i>Maccaffertium pulchellum</i>	1 +	82730	<i>Chironomus (C.) decorus group</i>	+
13570	<i>Maccaffertium terminatum</i>	16	82820	<i>Cryptochironomus sp</i>	+
16700	<i>Tricorythodes sp</i>	136 +	83002	<i>Dicrotendipes modestus</i>	207
17200	<i>Caenis sp</i>	+	83040	<i>Dicrotendipes neomodestus</i>	207 +
21200	<i>Calopteryx sp</i>	+	83051	<i>Dicrotendipes simpsoni</i>	+
21300	<i>Hetaerina sp</i>	+	83158	<i>Endochironomus nigricans</i>	+
22001	<i>Coenagrionidae</i>	64 +	83300	<i>Glyptotendipes (G.) sp</i>	517 +
22300	<i>Argia sp</i>	+	83310	<i>Glyptotendipes (Heynotendipes) amplus</i>	103
42700	<i>Belostoma sp</i>	1	83840	<i>Microtendipes pedellus group</i>	103
45400	<i>Trichocorixa sp</i>	+	84020	<i>Parachironomus carinatus</i>	207 +
49200	<i>Climacia sp</i>	+	84030	<i>Parachironomus directus</i>	103 +
50315	<i>Chimarra obscura</i>	408 +	84040	<i>Parachironomus frequens</i>	2480 +
51600	<i>Polycentropus sp</i>	128 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	3410 +
52200	<i>Cheumatopsyche sp</i>	1427 +	84470	<i>Polypedilum (P.) illinoense</i>	207 +
52430	<i>Ceratopsyche morosa group</i>	68 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	103 +
52560	<i>Hydropsyche orris</i>	+	84790	<i>Tribelos fuscicorne</i>	+
53400	<i>Protoptila sp</i>	+	84888	<i>Xenochironomus xenolabis</i>	+
53800	<i>Hydroptila sp</i>	1 +	85625	<i>Rheotanytarsus sp</i>	517 +
59160	<i>Ceraclea spongillovorax</i>	1	85800	<i>Tanytarsus sp</i>	+
59310	<i>Mystacides sepulchralis</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	310
59970	<i>Petrophila sp</i>	19 +	93200	<i>Hydrobiidae</i>	+
65800	<i>Berosus sp</i>	+	93900	<i>Elimia sp</i>	+
68075	<i>Psephenus herricki</i>	+	95100	<i>Physella sp</i>	+
69400	<i>Stenelmis sp</i>	68 +	96900	<i>Ferrissia sp</i>	17 +
71300	<i>Limonia sp</i>	+	97601	<i>Corbicula fluminea</i>	+
74100	<i>Simulium sp</i>	+	98600	<i>Sphaerium sp</i>	32 +
77120	<i>Ablabesmyia mallochi</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River
dst. Fifth Ave.

Collection Date: 09/17/2009 River Code: 02-001 RM: 136.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
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No. Quantitative Taxa: 47 Total Taxa: 87
No. Qualitative Taxa: 69 ICI: **30**
Number of Organisms: 17598 Qual EPT: 16

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/18/2009 River Code: 02-001 RM: 131.80 A Broad St.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+			
01320	<i>Hydra sp</i>	2341	No. Quantitative Taxa: 28 Total Taxa: 42		
01801	<i>Turbellaria</i>	898 +	No. Qualitative Taxa: 30 ICI: 10		
03221	<i>Pectinatella magnifica</i>	7 +	Number of Organisms: 19667 Qual EPT: 0		
03360	<i>Plumatella sp</i>	13 +			
03451	<i>Urnatella gracilis</i>	709			
03600	<i>Oligochaeta</i>	1921 +			
04666	<i>Helobdella triserialis</i>	3			
04935	<i>Erpobdella punctata punctata</i>	1 +			
06201	<i>Hyalella azteca</i>	453 +			
08601	<i>Hydrachnidia</i>	64			
17200	<i>Caenis sp</i>	32			
22001	<i>Coenagrionidae</i>	20 +			
22300	<i>Argia sp</i>	19 +			
53800	<i>Hydroptila sp</i>	32			
54200	<i>Orthotrichia sp</i>	2			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	1			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	103			
77130	<i>Ablabesmyia rhamphe group</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	310			
83158	<i>Endochironomus nigricans</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	11772 +			
84000	<i>Parachironomus sp</i>	+			
84020	<i>Parachironomus carinatus</i>	+			
84030	<i>Parachironomus directus</i>	+			
84040	<i>Parachironomus frequens</i>	103			
84060	<i>Parachironomus pectinatellae</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
92615	<i>Cipangopaludina japonica</i>	10 +			
93200	<i>Hydrobiidae</i>	67 +			
94800	<i>Stagnicola sp</i>	1 +			
95100	<i>Physella sp</i>	69 +			
95900	<i>Gyraulus sp</i>	8 +			
96100	<i>Menetus (Micromenetus) sp</i>	515 +			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	1			
96900	<i>Ferrissia sp</i>	192 +			
97601	<i>Corbicula fluminea</i>	+			
97710	<i>Dreissena polymorpha</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/18/2009 River Code: 02-001 RM: 131.80 B Broad St.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	1			
03600	<i>Oligochaeta</i>	129			
83050	<i>Dicrotendipes lucifer</i>	5			
83300	<i>Glyptotendipes (G.) sp</i>	273			
96100	<i>Menetus (Micromenetus) sp</i>	1			
99998	NO QUALITATIVE SAMPLE COLLECTED	+			

No. Quantitative Taxa: 5 Total Taxa: 6

No. Qualitative Taxa: 1 ICI: 0

Number of Organisms: 409 Qual EPT:

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/16/2009 River Code: 02-001 RM: 129.10

0.4 mi. dst. Greenlawn Ave.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01200	<i>Cordylophora lacustris</i>	1	84470	<i>Polypedilum (P.) illinoense</i>	263 +
01320	<i>Hydra sp</i>	17	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
01801	<i>Turbellaria</i>	3 +	84790	<i>Tribelos fuscicorne</i>	+
03121	<i>Paludicella articulata</i>	1 +	84888	<i>Xenochironomus xenolabis</i>	+
03360	<i>Plumatella sp</i>	1 +	85625	<i>Rheotanytarsus sp</i>	+
03451	<i>Urnatella gracilis</i>	1	87501	<i>Empididae</i>	1
03600	<i>Oligochaeta</i>	2656 +	93200	<i>Hydrobiidae</i>	+
04666	<i>Helobdella triserialis</i>	+	93900	<i>Elimia sp</i>	2 +
04960	<i>Mooreobdella sp</i>	+	96900	<i>Ferrissia sp</i>	+
05800	<i>Caecidotea sp</i>	+	97710	<i>Dreissena polymorpha</i>	+
06700	<i>Crangonyx sp</i>	+	98600	<i>Sphaerium sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	99320	<i>Tritogonia verrucosa</i>	+
11130	<i>Baetis intercalaris</i>	37 +	99680	<i>Leptodea fragilis</i>	+
13400	<i>Stenacron sp</i>	1 +			
13521	<i>Stenonema femoratum</i>	+	No. Quantitative Taxa: 28		Total Taxa: 57
13561	<i>Maccaffertium pulchellum</i>	64 +	No. Qualitative Taxa: 49		ICI: 28
16700	<i>Tricorythodes sp</i>	+	Number of Organisms: 20311		Qual EPT: 12
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
49200	<i>Climacia sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	293 +			
51300	<i>Neureclipsis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	8085 +			
52430	<i>Ceratopsyche morosa group</i>	5 +			
52520	<i>Hydropsyche bidens</i>	78			
52560	<i>Hydropsyche orris</i>	484 +			
52570	<i>Hydropsyche simulans</i>	1			
52580	<i>Hydropsyche valanis</i>	240 +			
53800	<i>Hydroptila sp</i>	2 +			
59970	<i>Petrophila sp</i>	18 +			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
80310	<i>Cardiocladius obscurus</i>	+			
80410	<i>Cricotopus (C.) sp</i>	175 +			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81240	<i>Nanocladius (N.) distinctus</i>	1489 +			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	1752 +			
84000	<i>Parachironomus sp</i>	88			
84040	<i>Parachironomus frequens</i>	350			
84300	<i>Phaenopsectra obediens group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	4203 +			

Ohio EPA/DW/NSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/21/2009 River Code: 02-001 RM: 126.00

dst. Jackson Pike WWTP

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	95100	<i>Physella sp</i>	+
01200	<i>Cordylophora lacustris</i>	1 +	96900	<i>Ferrissia sp</i>	196 +
01801	<i>Turbellaria</i>	+	97710	<i>Dreissena polymorpha</i>	+
03360	<i>Plumatella sp</i>	1 +	98600	<i>Sphaerium sp</i>	+
03451	<i>Urnatella gracilis</i>	+	99240	<i>Lasmigona complanata</i>	+
03600	<i>Oligochaeta</i>	22976 +	99680	<i>Leptodea fragilis</i>	+
04666	<i>Helobdella triserialis</i>	+			
04960	<i>Mooreobdella sp</i>	+	No. Quantitative Taxa: 20		Total Taxa: 49
05800	<i>Caecidotea sp</i>	+	No. Qualitative Taxa: 45		ICI: 16
06201	<i>Hyaella azteca</i>	+	Number of Organisms: 37812		Qual EPT: 7
11130	<i>Baetis intercalaris</i>	2 +			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	74 +			
52200	<i>Cheumatopsyche sp</i>	1607 +			
52560	<i>Hydropsyche orris</i>	76			
52570	<i>Hydropsyche simulans</i>	4 +			
52580	<i>Hydropsyche valanis</i>	74 +			
53800	<i>Hydroptila sp</i>	2			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
80410	<i>Cricotopus (C.) sp</i>	883 +			
80420	<i>Cricotopus (C.) bicinctus</i>	1639 +			
81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	+			
81240	<i>Nanocladius (N.) distinctus</i>	3531 +			
82130	<i>Thienemanniella similis</i>	64			
82730	<i>Chironomus (C.) decorus</i> group	+			
83040	<i>Dicrotendipes neomodestus</i>	378			
83051	<i>Dicrotendipes simpsoni</i>	504 +			
83300	<i>Glyptotendipes (G.) sp</i>	2900 +			
84010	<i>Parachironomus "abortivus" (sensu Simpson & Bode, 1980)</i>	+			
84020	<i>Parachironomus carinatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	2396 +			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum</i> group	+			
85625	<i>Rheotanytarsus sp</i>	504 +			
92615	<i>Cipangopaludina japonica</i>	+			
93200	<i>Hydrobiidae</i>	+			
93900	<i>Elimia sp</i>	+			
			155		

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/17/2009 River Code: 02-001 RM: 119.90

St. Rt. 665

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+
01200	<i>Cordylophora lacustris</i>	1	82130	<i>Thienemanniella similis</i>	128 +
01801	<i>Turbellaria</i>	+	83040	<i>Dicrotendipes neomodestus</i>	59 +
03121	<i>Paludicella articulata</i>	+	83050	<i>Dicrotendipes lucifer</i>	117 +
03360	<i>Plumatella sp</i>	2 +	83300	<i>Glyptotendipes (G.) sp</i>	59 +
03451	<i>Urnatella gracilis</i>	+	84040	<i>Parachironomus frequens</i>	+
03600	<i>Oligochaeta</i>	96 +	84300	<i>Phaenopsectra obediens group</i>	+
04666	<i>Helobdella triserialis</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1702 +
05800	<i>Caecidotea sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
06201	<i>Hyaella azteca</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	59 +
06700	<i>Crangonyx sp</i>	+	85625	<i>Rheotanytarsus sp</i>	470 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85800	<i>Tanytarsus sp</i>	+
11130	<i>Baetis intercalaris</i>	1213 +	87540	<i>Hemerodromia sp</i>	1 +
13510	<i>Maccaffertium exiguum</i>	5	93900	<i>Elimia sp</i>	+
13570	<i>Maccaffertium terminatum</i>	36 +	96900	<i>Ferrissia sp</i>	99
16700	<i>Tricorythodes sp</i>	713 +	97601	<i>Corbicula fluminea</i>	+
17200	<i>Caenis sp</i>	+	97710	<i>Dreissena polymorpha</i>	+
22001	<i>Coenagrionidae</i>	+	99400	<i>Quadrula quadrula</i>	+
22300	<i>Argia sp</i>	2 +	99580	<i>Obliquaria reflexa</i>	+
45400	<i>Trichocorixa sp</i>	+	99640	<i>Truncilla donaciformis</i>	+
50315	<i>Chimarra obscura</i>	1	99660	<i>Truncilla truncata</i>	+
51206	<i>Cyrnellus fraternus</i>	+	99680	<i>Leptodea fragilis</i>	+
52200	<i>Cheumatopsyche sp</i>	7054 +	99700	<i>Potamilus alatus</i>	+
52430	<i>Ceratopsyche morosa group</i>	41 +			
52520	<i>Hydropsyche bidens</i>	+	No. Quantitative Taxa: 33		Total Taxa: 66
52560	<i>Hydropsyche orris</i>	3348 +	No. Qualitative Taxa: 60		ICI: 36
52570	<i>Hydropsyche simulans</i>	98 +	Number of Organisms: 20271		Qual EPT: 13
52580	<i>Hydropsyche valanis</i>	389 +			
52801	<i>Potamyia flava</i>	574 +			
53800	<i>Hydroptila sp</i>	1 +			
59970	<i>Petrophila sp</i>	+			
65800	<i>Berosus sp</i>	+			
68901	<i>Macronychus glabratus</i>	1			
69400	<i>Stenelmis sp</i>	35 +			
74100	<i>Simulium sp</i>	32 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	1820 +			
78750	<i>Rheopelopia paramaculipennis</i>	59			
80410	<i>Cricotopus (C.) sp</i>	59 +			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	1292 +			
81240	<i>Nanocladius (N.) distinctus</i>	705 +			
			156		

Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/18/2009 River Code: 02-001 RM: 117.60

upst. Big Walnut Creek

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	80420	<i>Cricotopus (C.) bicinctus</i>	+
01200	<i>Cordylophora lacustris</i>	1	80430	<i>Cricotopus (C.) tremulus group</i>	+
01320	<i>Hydra sp</i>	+	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	590
01801	<i>Turbellaria</i>	+	81240	<i>Nanocladius (N.) distinctus</i>	295
03121	<i>Paludicella articulata</i>	+	82130	<i>Thienemanniella similis</i>	96
03360	<i>Plumatella sp</i>	4 +	82730	<i>Chironomus (C.) decorus group</i>	+
03451	<i>Urnatella gracilis</i>	1 +	82820	<i>Cryptochironomus sp</i>	+
03600	<i>Oligochaeta</i>	192 +	83002	<i>Dicrotendipes modestus</i>	393
04664	<i>Helobdella stagnalis</i>	1	83040	<i>Dicrotendipes neomodestus</i>	+
04666	<i>Helobdella triserialis</i>	+	83051	<i>Dicrotendipes simpsoni</i>	197
04682	<i>Placobdella montifera</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	1081 +
04960	<i>Mooreobdella sp</i>	+	83400	<i>Harnischia sp</i>	+
05800	<i>Caecidotea sp</i>	+	84020	<i>Parachironomus carinatus</i>	98 +
06201	<i>Hyaella azteca</i>	+	84040	<i>Parachironomus frequens</i>	197 +
06700	<i>Crangonyx sp</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
11130	<i>Baetis intercalaris</i>	961 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1966 +
13400	<i>Stenacron sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
13521	<i>Stenonema femoratum</i>	1	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13570	<i>Maccaffertium terminatum</i>	89 +	84888	<i>Xenochironomus xenolabis</i>	+
16700	<i>Tricorythodes sp</i>	308 +	85625	<i>Rheotanytarsus sp</i>	1475 +
22001	<i>Coenagrionidae</i>	+	87540	<i>Hemerodromia sp</i>	64
22300	<i>Argia sp</i>	+	93900	<i>Elimia sp</i>	+
43300	<i>Ranatra sp</i>	+	96900	<i>Ferrissia sp</i>	67 +
45400	<i>Trichocorixa sp</i>	+	97710	<i>Dreissena polymorpha</i>	+
49101	<i>Sisyridae</i>	+	98600	<i>Sphaerium sp</i>	+
51206	<i>Cyrmellus fraternus</i>	8 +	99640	<i>Truncilla donaciformis</i>	+
51300	<i>Neureclipsis sp</i>	66 +	99660	<i>Truncilla truncata</i>	+
52200	<i>Cheumatopsyche sp</i>	3658 +	99680	<i>Leptodea fragilis</i>	+
52430	<i>Ceratopsyche morosa group</i>	538 +			
52520	<i>Hydropsyche bidens</i>	+			
52560	<i>Hydropsyche orris</i>	1755 +	No. Quantitative Taxa: 32	Total Taxa: 72	
52570	<i>Hydropsyche simulans</i>	375 +	No. Qualitative Taxa: 61	ICI: 32	
52580	<i>Hydropsyche valanis</i>	1	Number of Organisms: 15958	Qual EPT: 13	
52801	<i>Potamyia flava</i>	285 +			
53800	<i>Hydroptila sp</i>	16 +			
59970	<i>Petrophila sp</i>	+			
68130	<i>Helichus sp</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	1081 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			
78750	<i>Rheopelopia paramaculipennis</i>	98			
80410	<i>Cricotopus (C.) sp</i>	+	157		

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/18/2009 River Code: 02-001 RM: 116.30

1.0 mi. upst. St. Rt. 762

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	77120	<i>Ablabesmyia mallochi</i>	+
01200	<i>Cordylophora lacustris</i>	1	77750	<i>Hayesomyia senata</i> or <i>Thienemannimyia norena</i>	571 +
01801	<i>Turbellaria</i>	402 +	78140	<i>Labrundinia pilosella</i>	+
03360	<i>Plumatella sp</i>	1 +	78655	<i>Procladius (Holotanypus) sp</i>	+
03600	<i>Oligochaeta</i>	160 +	80410	<i>Cricotopus (C.) sp</i>	+
04601	<i>Glossiphoniidae</i>	+	80430	<i>Cricotopus (C.) tremulus group</i>	+
04664	<i>Helobdella stagnalis</i>	+	81231	<i>Nanocladius (N.) crassicornus</i> or <i>N. (N.) "rectinervis"</i>	317 +
04666	<i>Helobdella triserialis</i>	+	81240	<i>Nanocladius (N.) distinctus</i>	+
04960	<i>Mooreobdella sp</i>	+	82130	<i>Thienemanniella similis</i>	48
05800	<i>Caecidotea sp</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
06700	<i>Crangonyx sp</i>	+	82820	<i>Cryptochironomus sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	83002	<i>Dicrotendipes modestus</i>	127
08601	<i>Hydrachnidia</i>	32	83040	<i>Dicrotendipes neomodestus</i>	+
11130	<i>Baetis intercalaris</i>	653 +	83300	<i>Glyptotendipes (G.) sp</i>	190 +
11155	<i>Iswaeon anoka</i>	+	83400	<i>Harnischia sp</i>	+
13400	<i>Stenacron sp</i>	+	84020	<i>Parachironomus carinatus</i>	127 +
13510	<i>Maccaffertium exiguum</i>	37 +	84040	<i>Parachironomus frequens</i>	+
13561	<i>Maccaffertium pulchellum</i>	23	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+
13570	<i>Maccaffertium terminatum</i>	66 +	84300	<i>Phaenopsectra obediens group</i>	+
16700	<i>Tricorythodes sp</i>	531 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1523 +
18100	<i>Anthopotamus sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
21300	<i>Hetaerina sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
22001	<i>Coenagrionidae</i>	+	84800	<i>Tribelos jucundum</i>	+
22300	<i>Argia sp</i>	22 +	84888	<i>Xenochironomus xenolabis</i>	+
49101	<i>Sisyridae</i>	+	85625	<i>Rheotanytarsus sp</i>	2729 +
51206	<i>Cyrnellus fraternus</i>	21 +	85800	<i>Tanytarsus sp</i>	+
51300	<i>Neureclipsis sp</i>	215 +	87540	<i>Hemerodromia sp</i>	129
51600	<i>Polycentropus sp</i>	+	93900	<i>Elimia sp</i>	43 +
52200	<i>Cheumatopsyche sp</i>	5317 +	96900	<i>Ferrissia sp</i>	162 +
52430	<i>Ceratopsyche morosa group</i>	397 +	97710	<i>Dreissena polymorpha</i>	+
52520	<i>Hydropsyche bidens</i>	+	98600	<i>Sphaerium sp</i>	+
52560	<i>Hydropsyche orris</i>	2662 +	99240	<i>Lasmigona complanata</i>	+
52570	<i>Hydropsyche simulans</i>	783 +	99580	<i>Obliquaria reflexa</i>	+
52801	<i>Potamyia flava</i>	242 +	99640	<i>Truncilla donaciformis</i>	+
53400	<i>Protoptila sp</i>	+	99660	<i>Truncilla truncata</i>	+
53800	<i>Hydroptila sp</i>	+	99680	<i>Leptodea fragilis</i>	+
59407	<i>Nectopsyche candida</i>	+	99700	<i>Potamilus alatus</i>	+
59970	<i>Petrophila sp</i>	+	99880	<i>Lampsilis cardium</i>	+
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	33			
69400	<i>Stenelmis sp</i>	2 +	No. Quantitative Taxa: 32		Total Taxa: 82
71900	<i>Tipula sp</i>	+	No. Qualitative Taxa: 75		ICI: 44
74100	<i>Simulium sp</i>	1 +	Number of Organisms: 17567		Qual EPT: 19
			158		

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/15/2009 River Code: 02-001 RM: 109.40

St. Rt. 316

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	65 +	82820	<i>Cryptochironomus sp</i>	+
03121	<i>Paludicella articulata</i>	+	83250	<i>Gillotia alboviridis</i>	+
03360	<i>Plumatella sp</i>	1 +	83300	<i>Glyptotendipes (G.) sp</i>	51 +
03451	<i>Urnatella gracilis</i>	1	84020	<i>Parachironomus carinatus</i>	25 +
03600	<i>Oligochaeta</i>	32 +	84060	<i>Parachironomus pectinatellae</i>	+
04666	<i>Helobdella triserialis</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
04960	<i>Mooreobdella sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	408 +
05800	<i>Caecidotea sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	26 +
06700	<i>Crangonyx sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	26 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	84800	<i>Tribelos jucundum</i>	+
11130	<i>Baetis intercalaris</i>	1736 +	85625	<i>Rheotanytarsus sp</i>	1632 +
12200	<i>Isonychia sp</i>	1	85821	<i>Tanytarsus glabrescens group sp 7</i>	25 +
13000	<i>Leucrocota sp</i>	+	87540	<i>Hemerodromia sp</i>	32
13400	<i>Stenacron sp</i>	+	89716	<i>Limnophora discreta</i>	+
13510	<i>Maccaffertium exiguum</i>	74 +	93900	<i>Elimia sp</i>	20 +
13550	<i>Maccaffertium mexicanum integrum</i>	1	97710	<i>Dreissena polymorpha</i>	+
13561	<i>Maccaffertium pulchellum</i>	148 +	99580	<i>Obliquaria reflexa</i>	+
13570	<i>Maccaffertium terminatum</i>	107 +	99640	<i>Truncilla donaciformis</i>	+
16700	<i>Tricorythodes sp</i>	262 +	99660	<i>Truncilla truncata</i>	+
21200	<i>Calopteryx sp</i>	+	99680	<i>Leptodea fragilis</i>	+
21300	<i>Hetaerina sp</i>	+	99700	<i>Potamilus alatus</i>	+
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+	No. Quantitative Taxa: 34 Total Taxa: 64		
45400	<i>Trichocorixa sp</i>	+	No. Qualitative Taxa: 56 ICI: 54		
51206	<i>Cyrnellus fraternus</i>	16	Number of Organisms: 9071 Qual EPT: 14		
52200	<i>Cheumatopsyche sp</i>	1553 +			
52430	<i>Ceratopsyche morosa group</i>	47 +			
52520	<i>Hydropsyche bidens</i>	47 +			
52560	<i>Hydropsyche orris</i>	606 +			
52570	<i>Hydropsyche simulans</i>	996 +			
52801	<i>Potamyia flava</i>	306 +			
53501	<i>Hydroptilidae</i>	17			
59100	<i>Ceraclea sp</i>	32			
59407	<i>Nectopsyche candida</i>	+			
69400	<i>Stenelmis sp</i>	25 +			
74100	<i>Simulium sp</i>	370 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	230 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	102			
82130	<i>Thienemanniella similis</i>	+			
82220	<i>Tvetenia discoloripes group</i>	51 +			
			159		

Ohio EPA/DW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/15/2009 River Code: 02-001 RM: 105.30

0.8 mi. dst. Walnut Creek

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01200	<i>Cordylophora lacustris</i>	1	84040	<i>Parachironomus frequens</i>	+
01801	<i>Turbellaria</i>	36 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	313 +
03121	<i>Paludicella articulata</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	45
03360	<i>Plumatella sp</i>	1 +	85625	<i>Rheotanytarsus sp</i>	3621 +
03600	<i>Oligochaeta</i>	48	93900	<i>Elimia sp</i>	2 +
04666	<i>Helobdella triserialis</i>	+	96900	<i>Ferrissia sp</i>	34
04960	<i>Mooreobdella sp</i>	1	97601	<i>Corbicula fluminea</i>	+
05800	<i>Caecidotea sp</i>	1 +	99240	<i>Lasmigona complanata</i>	+
06700	<i>Crangonyx sp</i>	+	99400	<i>Quadrula quadrula</i>	+
11130	<i>Baetis intercalaris</i>	934 +	99660	<i>Truncilla truncata</i>	+
12200	<i>Isonychia sp</i>	1	99680	<i>Leptodea fragilis</i>	+
13510	<i>Maccaffertium exiguum</i>	227 +			
13561	<i>Maccaffertium pulchellum</i>	254 +	No. Quantitative Taxa: 37		Total Taxa: 54
13570	<i>Maccaffertium terminatum</i>	510 +	No. Qualitative Taxa: 42		ICI: 52
16700	<i>Tricorythodes sp</i>	779 +	Number of Organisms: 9996		Qual EPT: 12
17200	<i>Caenis sp</i>	134			
21200	<i>Calopteryx sp</i>	+			
22300	<i>Argia sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
50315	<i>Chimarra obscura</i>	1			
51206	<i>Cyrnellus fraternus</i>	20			
51300	<i>Neureclipsis sp</i>	14 +			
52200	<i>Cheumatopsyche sp</i>	1280 +			
52430	<i>Ceratopsyche morosa group</i>	26 +			
52520	<i>Hydropsyche bidens</i>	41 +			
52560	<i>Hydropsyche orris</i>	243 +			
52570	<i>Hydropsyche simulans</i>	128 +			
52801	<i>Potamyia flava</i>	603 +			
53800	<i>Hydroptila sp</i>	1			
59160	<i>Ceraclea spongillovorax</i>	17			
59970	<i>Petrophila sp</i>	+			
68130	<i>Helichus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	2 +			
68901	<i>Macronychus glabratus</i>	18 +			
69400	<i>Stenelmis sp</i>	5 +			
74100	<i>Simulium sp</i>	74 +			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	268 +			
78140	<i>Labrundinia pilosella</i>	45			
80410	<i>Cricotopus (C.) sp</i>	+			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	89 +			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	179 +			
84020	<i>Parachironomus carinatus</i>	+			
			160		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/16/2009 River Code: 02-001 RM: 100.00

upst. U.S. Rt. 22 opposite Hargus Creek

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	146 +	68601	<i>Ancyronyx variegata</i>	+
02600	<i>Nematomorpha</i>	+	69400	<i>Stenelmis sp</i>	9 +
03121	<i>Paludicella articulata</i>	+	74100	<i>Simulium sp</i>	130 +
03360	<i>Plumatella sp</i>	4 +	77120	<i>Ablabesmyia mallochi</i>	+
03600	<i>Oligochaeta</i>	+	77130	<i>Ablabesmyia rhamphe group</i>	+
04666	<i>Helobdella triserialis</i>	+	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	130 +
05800	<i>Caecidotea sp</i>	+	78750	<i>Rheopelopia paramaculipennis</i>	90
06700	<i>Crangonyx sp</i>	+	80310	<i>Cardiocladius obscurus</i>	90 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	64
11119	<i>Plauditus dubius or P. virilis</i>	7	80410	<i>Cricotopus (C.) sp</i>	180 +
11130	<i>Baetis intercalaris</i>	1287 +	82130	<i>Thienemanniella similis</i>	64
11670	<i>Procloeon viridoculare</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
12200	<i>Isonychia sp</i>	52 +	82820	<i>Cryptochironomus sp</i>	+
13000	<i>Leucrocota sp</i>	+	83040	<i>Dicrotendipes neomodestus</i>	+
13100	<i>Nixe sp</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	540 +
13400	<i>Stenacron sp</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
13510	<i>Maccaffertium exiguum</i>	110 +	84000	<i>Parachironomus sp</i>	90
13550	<i>Maccaffertium mexicanum integrum</i>	1	84020	<i>Parachironomus carinatus</i>	+
13561	<i>Maccaffertium pulchellum</i>	468 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	540 +
13570	<i>Maccaffertium terminatum</i>	257 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
16700	<i>Tricorythodes sp</i>	1677 +	85625	<i>Rheotanytarsus sp</i>	6658 +
17200	<i>Caenis sp</i>	296 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
18100	<i>Anthopotamus sp</i>	+	93900	<i>Elimia sp</i>	+
22300	<i>Argia sp</i>	+	96900	<i>Ferrissia sp</i>	+
34600	<i>Perlinella sp</i>	+	97601	<i>Corbicula fluminea</i>	+
34700	<i>Agnatina capitata complex</i>	+	99240	<i>Lasmigona complanata</i>	+
45400	<i>Trichocorixa sp</i>	+	99400	<i>Quadrula quadrula</i>	+
47600	<i>Sialis sp</i>	+	99640	<i>Truncilla donaciformis</i>	+
50315	<i>Chimarra obscura</i>	36 +	99680	<i>Leptodea fragilis</i>	+
51206	<i>Cyrnellus fraternus</i>	3	99700	<i>Potamilus alatus</i>	+
51300	<i>Neureclipsis sp</i>	10 +			
52200	<i>Cheumatopsyche sp</i>	1334 +			
52430	<i>Ceratopsyche morosa group</i>	61 +			
52520	<i>Hydropsyche bidens</i>	52 +			
52560	<i>Hydropsyche orris</i>	572 +	No. Quantitative Taxa: 34	Total Taxa: 74	
52570	<i>Hydropsyche simulans</i>	204 +	No. Qualitative Taxa: 67	ICI: 54	
52801	<i>Potamyia flava</i>	536 +	Number of Organisms: 15800	Qual EPT: 24	
53400	<i>Protoptila sp</i>	+			
53800	<i>Hydroptila sp</i>	70 +			
59970	<i>Petrophila sp</i>	32 +			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			

161

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/22/1997 River Code: 02-001 RM: 100.10

upst. U.S. Rt. 22 upst. Hargus Creek

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	12 +	68130	<i>Helichus sp</i>	+
03360	<i>Plumatella sp</i>	1 +	68601	<i>Ancyronyx variegata</i>	1 +
03600	<i>Oligochaeta</i>	48 +	68708	<i>Dubiraphia vittata group</i>	+
04615	<i>Actinobdella inequiannulata</i>	+	68901	<i>Macronychus glabratus</i>	12
05900	<i>Lirceus sp</i>	+	69400	<i>Stenelmis sp</i>	39 +
06201	<i>Hyalella azteca</i>	+	71100	<i>Hexatoma sp</i>	+
06700	<i>Crangonyx sp</i>	+	74100	<i>Simulium sp</i>	250 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	77120	<i>Ablabesmyia mallochi</i>	+
08601	<i>Hydrachnidia</i>	8	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	193 +
11130	<i>Baetis intercalaris</i>	1692 +	77800	<i>Helopelopia sp</i>	15
12200	<i>Isonychia sp</i>	1100 +	78655	<i>Procladius (Holotanypus) sp</i>	+
13000	<i>Leucrocuta sp</i>	+	80410	<i>Cricotopus (C.) sp</i>	+
13100	<i>Nixe sp</i>	+	80420	<i>Cricotopus (C.) bicinctus</i>	+
13510	<i>Maccaffertium exiguum</i>	360	80440	<i>Cricotopus (C.) trifascia</i>	+
13550	<i>Maccaffertium mexicanum integrum</i>	111	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	45
13561	<i>Maccaffertium pulchellum</i>	341	82130	<i>Thienemanniella similis</i>	15 +
13570	<i>Maccaffertium terminatum</i>	288 +	82730	<i>Chironomus (C.) decorus group</i>	+
16700	<i>Tricorythodes sp</i>	3 +	82900	<i>Demicryptochironomus sp</i>	+
17200	<i>Caenis sp</i>	28 +	83250	<i>Gillotia albobiridis</i>	+
22300	<i>Argia sp</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	60 +
23909	<i>Boyeria vinosa</i>	+	83410	<i>Harnischia curtilamellata</i>	+
24900	<i>Gomphus sp</i>	+	83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+
34700	<i>Agnatina capitata complex</i>	4 +	84040	<i>Parachironomus frequens</i>	+
45400	<i>Trichocorixa sp</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
47600	<i>Sialis sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	179 +
48410	<i>Corydalus cornutus</i>	1	84470	<i>Polypedilum (P.) illinoense</i>	+
51206	<i>Cyrnellus fraternus</i>	1	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
51300	<i>Neureclipsis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	774 +
52200	<i>Cheumatopsyche sp</i>	2378 +	85800	<i>Tanytarsus sp</i>	+
52430	<i>Ceratopsyche morosa group</i>	96	87540	<i>Hemerodromia sp</i>	8 +
52520	<i>Hydropsyche bidens</i>	664 +	96900	<i>Ferrissia sp</i>	2 +
52560	<i>Hydropsyche orris</i>	2494 +	97601	<i>Corbicula fluminea</i>	+
52570	<i>Hydropsyche simulans</i>	614 +	99680	<i>Leptodea fragilis</i>	+
52580	<i>Hydropsyche valanis</i>	144	99720	<i>Potamilus ohioensis</i>	+
52801	<i>Potamyia flava</i>	5350 +	99830	<i>Lampsilis fasciola</i>	+
53800	<i>Hydroptila sp</i>	+	99880	<i>Lampsilis cardium</i>	+
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
64800	<i>Uvarus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67700	<i>Paracymus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			

No. Quantitative Taxa: 35 Total Taxa: 80
 No. Qualitative Taxa: 69 ICI: 56
 Number of Organisms: 17331 Qual EPT: 15

162

Ohio EPA/DW/ESW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 09/10/1996 River Code: 02-001 RM: 144.80

St. Rt. 161

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	93200	<i>Hydrobiidae</i>	+
01801	<i>Turbellaria</i>	+	93900	<i>Elimia sp</i>	+
03040	<i>Fredericella sp</i>	+	95100	<i>Physella sp</i>	+
03451	<i>Urnatella gracilis</i>	+	96900	<i>Ferrissia sp</i>	+
03600	<i>Oligochaeta</i>	+	97601	<i>Corbicula fluminea</i>	+
06201	<i>Hyalella azteca</i>	+	98600	<i>Sphaerium sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11130	<i>Baetis intercalaris</i>	+	No. Quantitative Taxa: 0		Total Taxa: 50
13000	<i>Leucrocota sp</i>	+	No. Qualitative Taxa: 50		ICI:
13400	<i>Stenacron sp</i>	+	Number of Organisms: 0		Qual EPT: 15
13521	<i>Stenonema femoratum</i>	+			
13561	<i>Maccaffertium pulchellum</i>	+			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
34700	<i>Agnatina capitata complex</i>	+			
43300	<i>Ranatra sp</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
53400	<i>Protoptila sp</i>	+			
57400	<i>Neophylax sp</i>	+			
59001	<i>Leptoceridae</i>	+			
59970	<i>Petrophila sp</i>	+			
60400	<i>Gyrinus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
77800	<i>Helopelopia sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84888	<i>Xenochironomus xenolabis</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85814	<i>Tanytarsus glabrescens group</i>	+			
85840	<i>Tanytarsus sepp</i>	+	163		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/10/1996 River Code: 02-001 RM: 144.54

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23950	<i>Epiaeschna heros</i>	+			
43300	<i>Ranatra sp</i>	+			
43570	<i>Neoplea sp</i>	+			
47600	<i>Sialis sp</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
59970	<i>Petrophila sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84790	<i>Tribelos fuscicorne</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85814	<i>Tanytarsus glabrescens group</i>	+			
93900	<i>Elimia sp</i>	+			
96120	<i>Menetus (Micromenetus) dilatatus</i>	+			
96900	<i>Ferrissia sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 33
No. Qualitative Taxa: 33	ICI:
Number of Organisms: 0	Qual EPT: 6

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 09/10/1996 River Code: 02-001 RM: 144.52

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00675	<i>Heteromeyenia latitenta</i>	+			
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
05800	<i>Caecidotea sp</i>	+			
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyalella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11200	<i>Callibaetis sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
18700	<i>Hexagenia sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23950	<i>Epiaeschna heros</i>	+			
45100	<i>Palmacorixa sp</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
59970	<i>Petrophila sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84700	<i>Stenochironomus sp</i>	+			
84790	<i>Tribelos fuscicorne</i>	+			
85800	<i>Tanytarsus sp</i>	+			
85814	<i>Tanytarsus glabrescens group</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96930	<i>Laevapex fuscus</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 35
 No. Qualitative Taxa: 35 ICI:
 Number of Organisms: 0 Qual EPT: 8

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/26/1996 River Code: 02-001 RM: 136.30

dst. Fifth Ave.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	85840	<i>Tanytarsus sepp</i>	+
01801	<i>Turbellaria</i>	196 +	87540	<i>Hemerodromia sp</i>	17
03360	<i>Plumatella sp</i>	+	93200	<i>Hydrobiidae</i>	+
03600	<i>Oligochaeta</i>	16 +	93900	<i>Elimia sp</i>	1 +
05800	<i>Caecidotea sp</i>	+	95100	<i>Physella sp</i>	+
06201	<i>Hyalella azteca</i>	+	96120	<i>Menetus (Micromenetus) dilatatus</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	96930	<i>Laevapex fuscus</i>	+
08601	<i>Hydrachnidia</i>	8	98600	<i>Sphaerium sp</i>	+
11120	<i>Baetis flavistriga</i>	3	99420	<i>Amblema plicata plicata</i>	+
11130	<i>Baetis intercalaris</i>	740 +	99860	<i>Lampsilis radiata luteola</i>	+
12200	<i>Isonychia sp</i>	309 +			
13000	<i>Leucrocota sp</i>	36 +	No. Quantitative Taxa: 29		Total Taxa: 54
13400	<i>Stenacron sp</i>	61 +	No. Qualitative Taxa: 43		ICI: 48
13510	<i>Maccaffertium exiguum</i>	49	Number of Organisms: 6397		Qual EPT: 15
13561	<i>Maccaffertium pulchellum</i>	377 +			
13570	<i>Maccaffertium terminatum</i>	+			
16324	<i>Teloganopsis deficiens</i>	1			
16700	<i>Tricorythodes sp</i>	18 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
50315	<i>Chimarra obscura</i>	12 +			
52200	<i>Cheumatopsyche sp</i>	948 +			
52430	<i>Ceratopsyche morosa group</i>	1096 +			
52520	<i>Hydropsyche bidens</i>	32 +			
52560	<i>Hydropsyche orris</i>	85			
52570	<i>Hydropsyche simulans</i>	14			
53400	<i>Protoptila sp</i>	+			
53800	<i>Hydroptila sp</i>	17 +			
59100	<i>Ceraclea sp</i>	+			
59310	<i>Mystacides sepulchralis</i>	+			
59970	<i>Petrophila sp</i>	1 +			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	3 +			
78450	<i>Nilotanypus fimbriatus</i>	155			
81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	+			
82141	<i>Thienemanniella xena</i>	31			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	1021 +			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84490	<i>Polypedilum (Cerobregma) ontario</i>	5			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84888	<i>Xenochironomus xenolabis</i>	31			
85625	<i>Rheotanytarsus sp</i>	1114 +			
85720	<i>Stempellinella fimbriata</i>	+	166		

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/26/1996 River Code: 02-001 RM: 133.40

dst. Dublin Rd. WTP dam

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00700	<i>Radiospongilla crateriformis</i>	+	87540	<i>Hemerodromia sp</i>	+
01801	<i>Turbellaria</i>	+	92615	<i>Cipangopaludina japonica</i>	+
03360	<i>Plumatella sp</i>	+	93200	<i>Hydrobiidae</i>	+
03600	<i>Oligochaeta</i>	+	93900	<i>Elimia sp</i>	+
06201	<i>Hyaella azteca</i>	+	95100	<i>Physella sp</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	96900	<i>Ferrissia sp</i>	+
08601	<i>Hydrachnidia</i>	+	96930	<i>Laevapex fuscus</i>	+
11130	<i>Baetis intercalaris</i>	+	98600	<i>Sphaerium sp</i>	+
12200	<i>Isonychia sp</i>	+	99860	<i>Lampsilis radiata luteola</i>	+
13000	<i>Leucrocuta sp</i>	+			
13100	<i>Nixe sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 53
13400	<i>Stenacron sp</i>	+	No. Qualitative Taxa: 53		ICI:
13510	<i>Maccaffertium exiguum</i>	+	Number of Organisms: 0		Qual EPT: 17
13561	<i>Maccaffertium pulchellum</i>	+			
13570	<i>Maccaffertium terminatum</i>	+			
16700	<i>Tricorythodes sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52560	<i>Hydropsyche orris</i>	+			
53800	<i>Hydroptila sp</i>	+			
57400	<i>Neophylax sp</i>	+			
59970	<i>Petrophila sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77800	<i>Helopelopia sp</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81200	<i>Nanocladius sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84030	<i>Parachironomus directus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84490	<i>Polypedilum (Cerobregma) ontario</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84888	<i>Xenochironomus xenolabis</i>	+			
85814	<i>Tanytarsus glabrescens group</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 10/11/1996 River Code: 02-001 RM: 129.00

0.5 mi. dst. Greenlawn Ave.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	96930	<i>Laevapex fuscus</i>	+
01200	<i>Cordylophora lacustris</i>	10 +	97601	<i>Corbicula fluminea</i>	+
01801	<i>Turbellaria</i>	+	98600	<i>Sphaerium sp</i>	+
03121	<i>Paludicella articulata</i>	1 +	99100	<i>Pyganodon grandis</i>	+
03360	<i>Plumatella sp</i>	5 +	99240	<i>Lasmigona complanata</i>	+
03451	<i>Urnatella gracilis</i>	1 +			
03600	<i>Oligochaeta</i>	704	No. Quantitative Taxa: 27		Total Taxa: 49
04666	<i>Helobdella triserialis</i>	+	No. Qualitative Taxa: 44		ICI: 22
05800	<i>Caecidotea sp</i>	8 +	Number of Organisms: 10473		Qual EPT: 6
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
13400	<i>Stenacron sp</i>	1 +			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
26700	<i>Macromia sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	42 +			
52200	<i>Cheumatopsyche sp</i>	2647 +			
52520	<i>Hydropsyche bidens</i>	41 +			
52560	<i>Hydropsyche orris</i>	220 +			
52580	<i>Hydropsyche valanis</i>	184 +			
53800	<i>Hydroptila sp</i>	16			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68700	<i>Dubiraphia sp</i>	+			
68901	<i>Macronychus glabratus</i>	1 +			
69400	<i>Stenelmis sp</i>	8 +			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	1080 +			
77800	<i>Helopelopia sp</i>	+			
80410	<i>Cricotopus (C.) sp</i>	154 +			
80420	<i>Cricotopus (C.) bicinctus</i>	154 +			
81240	<i>Nanocladius (N.) distinctus</i>	232 +			
83040	<i>Dicrotendipes neomodestus</i>	77 +			
83050	<i>Dicrotendipes lucifer</i>	386 +			
83051	<i>Dicrotendipes simpsoni</i>	309 +			
83300	<i>Glyptotendipes (G.) sp</i>	3704 +			
84040	<i>Parachironomus frequens</i>	77			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	386 +			
85625	<i>Rheotanytarsus sp</i>	+			
87540	<i>Hemerodromia sp</i>	16			
93200	<i>Hydrobiidae</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	9	168		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 07/15/1996 River Code: 02-001 RM: 128.40 A 0.6 mi. upst. Frank Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01900	<i>Nemertea</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
22001	<i>Coenagrionidae</i>	+			
43300	<i>Ranatra sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
66500	<i>Enochrus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
70800	<i>Erioptera sp</i>	+			
78702	<i>Psectrotanypus dyari</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
83410	<i>Harnischia curtilamellata</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
87501	<i>Empididae</i>	+			
87601	<i>Dolichopodidae</i>	+			
89501	<i>Ephydriidae</i>	+			
89716	<i>Limnophora discreta</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 26

No. Qualitative Taxa: 26 ICI:

Number of Organisms: 0 Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/26/1996 River Code: 02-001 RM: 128.40 B 0.6 mi. upst. Frank Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
42700	<i>Belostoma sp</i>	+			
43300	<i>Ranatra sp</i>	+			
51206	<i>Cyrnellus fraternus</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
78702	<i>Psectrotanypus dyari</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84040	<i>Parachironomus frequens</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
95100	<i>Physella sp</i>	+			
96930	<i>Laevapex fuscus</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 29
No. Qualitative Taxa: 29	ICI:
Number of Organisms: 0	Qual EPT: 2

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 10/11/1996 River Code: 02-001 RM: 127.80

Frank Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+			
01200	<i>Cordylophora lacustris</i>	5 +			
01801	<i>Turbellaria</i>	+			
03121	<i>Paludicella articulata</i>	1			
03360	<i>Plumatella sp</i>	12 +			
03600	<i>Oligochaeta</i>	144 +			
04666	<i>Helobdella triserialis</i>	+			
17200	<i>Caenis sp</i>	+			
22300	<i>Argia sp</i>	32 +			
24900	<i>Gomphus sp</i>	+			
27404	<i>Neurocordulia molesta</i>	+			
49400	<i>Sisyra sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	2905 +			
52520	<i>Hydropsyche bidens</i>	253			
52560	<i>Hydropsyche orris</i>	536 +			
52570	<i>Hydropsyche simulans</i>	1 +			
52580	<i>Hydropsyche valanis</i>	677 +			
53800	<i>Hydroptila sp</i>	24			
65800	<i>Berosus sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	8			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	2428 +			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81240	<i>Nanocladius (N.) distinctus</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	58			
83050	<i>Dicrotendipes lucifer</i>	173 +			
83051	<i>Dicrotendipes simpsoni</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	2312 +			
84020	<i>Parachironomus carinatus</i>	+			
84040	<i>Parachironomus frequens</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	752 +			
84888	<i>Xenochironomus xenolabis</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	40 +			
96930	<i>Laevapex fuscus</i>	+			
97601	<i>Corbicula fluminea</i>	+			
98600	<i>Sphaerium sp</i>	+			
99100	<i>Pyganodon grandis</i>	+			
99680	<i>Leptodea fragilis</i>	+			
99880	<i>Lampsilis cardium</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 07/15/1996 River Code: 02-001 RM: 127.00 A Jackson Pike mixing zone

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
06700	<i>Crangonyx sp</i>	+			
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82770	<i>Chironomus (C.) riparius group</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
95100	<i>Physella sp</i>	+			
95907	<i>Gyraulus (Torquis) parvus</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 13
No. Qualitative Taxa: 13	ICI:
Number of Organisms: 0	Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/27/1996 River Code: 02-001 RM: 127.00 B Jackson Pike mixing zone

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04615	<i>Actinobdella inequiannulata</i>	+			
22300	<i>Argia sp</i>	+			
65800	<i>Berosus sp</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82770	<i>Chironomus (C.) riparius group</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
95100	<i>Physella sp</i>	+			
96200	<i>Planorbella sp</i>	+			
96930	<i>Laevapex fuscus</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 13
No. Qualitative Taxa: 13	ICI:
Number of Organisms: 0	Qual EPT: 0

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/27/1996 River Code: 02-001 RM: 126.50

dst. Jackson Pike WWTP

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	87501	<i>Empididae</i>	1
01200	<i>Cordylophora lacustris</i>	1	95100	<i>Physella sp</i>	+
01320	<i>Hydra sp</i>	8	96900	<i>Ferrissia sp</i>	1 +
01801	<i>Turbellaria</i>	11 +	98600	<i>Sphaerium sp</i>	1
03121	<i>Paludicella articulata</i>	1			
03360	<i>Plumatella sp</i>	5 +	No. Quantitative Taxa: 28		Total Taxa: 48
03451	<i>Urnatella gracilis</i>	1	No. Qualitative Taxa: 34		ICI: 22
03600	<i>Oligochaeta</i>	450 +	Number of Organisms: 15881		Qual EPT: 4
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
21300	<i>Hetaerina sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
42700	<i>Belostoma sp</i>	+			
43300	<i>Ranatra sp</i>	+			
44501	<i>Corixidae</i>	+			
51600	<i>Polycentropus sp</i>	33			
52200	<i>Cheumatopsyche sp</i>	2680 +			
52520	<i>Hydropsyche bidens</i>	295 +			
52560	<i>Hydropsyche orris</i>	331 +			
52570	<i>Hydropsyche simulans</i>	2			
52580	<i>Hydropsyche valanis</i>	42			
53800	<i>Hydroptila sp</i>	1 +			
60300	<i>Dineutus sp</i>	+			
60800	<i>Haliphus sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	1 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	576 +			
80410	<i>Cricotopus (C.) sp</i>	96			
80420	<i>Cricotopus (C.) bicinctus</i>	480 +			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
81240	<i>Nanocladius (N.) distinctus</i>	2496 +			
82130	<i>Thienemanniella similis</i>	16			
82730	<i>Chironomus (C.) decorus group</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83051	<i>Dicrotendipes simpsoni</i>	480			
83300	<i>Glyptotendipes (G.) sp</i>	960 +			
84040	<i>Parachironomus frequens</i>	192			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	6624 +			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85625	<i>Rheotanytarsus sp</i>	96			
			174		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/27/1996 River Code: 02-001 RM: 123.20

1.2 mi. dst. I-270

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	2060 +
01200	<i>Cordylophora lacustris</i>	1 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	4119 +
01320	<i>Hydra sp</i>	32	84470	<i>Polypedilum (P.) illinoense</i>	90 +
01418	<i>Craspedacusta sowerbyi</i>	1	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	90 +
01801	<i>Turbellaria</i>	12 +	85625	<i>Rheotanytarsus sp</i>	1433 +
03121	<i>Paludicella articulata</i>	1 +	87501	<i>Empididae</i>	2
03360	<i>Plumatella sp</i>	3	93900	<i>Elimia sp</i>	+
03600	<i>Oligochaeta</i>	+	95100	<i>Physella sp</i>	+
04964	<i>Mooreobdella microstoma</i>	+	96900	<i>Ferrissia sp</i>	110 +
13400	<i>Stenacron sp</i>	9	96930	<i>Laevapex fuscus</i>	+
13550	<i>Maccaffertium mexicanum integrum</i>	1	97601	<i>Corbicula fluminea</i>	2 +
16700	<i>Tricorythodes sp</i>	32	99720	<i>Potamilus ohioensis</i>	+
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	2 +	No. Quantitative Taxa: 36		Total Taxa: 56
23600	<i>Aeshna sp</i>	+	No. Qualitative Taxa: 42		ICI: 32
27404	<i>Neurocordulia molesta</i>	1 +	Number of Organisms: 17391		Qual EPT: 6
45400	<i>Trichocorixa sp</i>	+			
51300	<i>Neureclipsis sp</i>	5 +			
52200	<i>Cheumatopsyche sp</i>	4705 +			
52520	<i>Hydropsyche bidens</i>	511 +			
52560	<i>Hydropsyche orris</i>	1387 +			
52570	<i>Hydropsyche simulans</i>	8 +			
52580	<i>Hydropsyche valanis</i>	2 +			
53800	<i>Hydroptila sp</i>	32			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67000	<i>Helophorus sp</i>	+			
67700	<i>Paracymus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	1 +			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77740	<i>Hayesomyia senata</i>	806 +			
79085	<i>Telopelopia okoboji</i>	+			
80410	<i>Cricotopus (C.) sp</i>	90			
80420	<i>Cricotopus (C.) bicinctus</i>	179 +			
81229	<i>Nanocladius (N.) crassicornus</i>	179			
81240	<i>Nanocladius (N.) distinctus</i>	627 +			
82130	<i>Thienemanniella similis</i>	320			
82710	<i>Chironomus (C.) sp</i>	90			
82820	<i>Cryptochironomus sp</i>	+			
83050	<i>Dicrotendipes lucifer</i>	269			
83051	<i>Dicrotendipes simpsoni</i>	179			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/27/1996 River Code: 02-001 RM: 119.30

0.6 mi. dst. St. Rt. 665

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	83050	<i>Dicrotendipes lucifer</i>	291 +
01200	<i>Cordylophora lacustris</i>	1	83051	<i>Dicrotendipes simpsoni</i>	146
01801	<i>Turbellaria</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	1165 +
03040	<i>Fredericella sp</i>	+	84040	<i>Parachironomus frequens</i>	+
03121	<i>Paludicella articulata</i>	1	84450	<i>Polypedilum (Uresipedilum) flavum</i>	2622 +
03360	<i>Plumatella sp</i>	3 +	84470	<i>Polypedilum (P.) illinoense</i>	+
03600	<i>Oligochaeta</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
04664	<i>Helobdella stagnalis</i>	+	84700	<i>Stenochironomus sp</i>	+
04666	<i>Helobdella triserialis</i>	+	85625	<i>Rheotanytarsus sp</i>	4808 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	93900	<i>Elimia sp</i>	2 +
11130	<i>Baetis intercalaris</i>	11	95100	<i>Physella sp</i>	4 +
12200	<i>Isonychia sp</i>	8	96900	<i>Ferrissia sp</i>	91 +
13400	<i>Stenacron sp</i>	+	97601	<i>Corbicula fluminea</i>	+
13550	<i>Maccaffertium mexicanum integrum</i>	1	98600	<i>Sphaerium sp</i>	+
13570	<i>Maccaffertium terminatum</i>	8	99100	<i>Pyganodon grandis</i>	+
16700	<i>Tricorythodes sp</i>	279 +	99400	<i>Quadrula quadrula</i>	+
17200	<i>Caenis sp</i>	+	99680	<i>Leptodea fragilis</i>	+
22300	<i>Argia sp</i>	5 +	99700	<i>Potamilus alatus</i>	+
27404	<i>Neurocordulia molesta</i>	1 +			
48410	<i>Corydalus cornutus</i>	1 +	No. Quantitative Taxa: 32		Total Taxa: 62
51300	<i>Neureclipsis sp</i>	76 +	No. Qualitative Taxa: 50		ICI: 36
52200	<i>Cheumatopsyche sp</i>	2948 +	Number of Organisms: 16584		Qual EPT: 9
52520	<i>Hydropsyche bidens</i>	617			
52560	<i>Hydropsyche orris</i>	967 +			
52570	<i>Hydropsyche simulans</i>	147			
52580	<i>Hydropsyche valanis</i>	77 +			
53800	<i>Hydroptila sp</i>	5			
59100	<i>Ceraclea sp</i>	+			
59570	<i>Oecetis nocturna</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	2 +			
74100	<i>Simulium sp</i>	1 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77740	<i>Hayesomyia senata</i>	1894 +			
78140	<i>Labrundinia pilosella</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81229	<i>Nanocladius (N.) crassicornus</i>	146			
82130	<i>Thienemanniella similis</i>	192 +			
82141	<i>Thienemanniella xena</i>	64			
82730	<i>Chironomus (C.) decorus group</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 07/16/1996 River Code: 02-001 RM: 118.30 A dst. Columbus Southerly WWTP

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
65800	<i>Berosus sp</i>	+			
67000	<i>Helophorus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82770	<i>Chironomus (C.) riparius group</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 15
 No. Qualitative Taxa: 15 ICI:
 Number of Organisms: 0 Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/28/1996 River Code: 02-001 RM: 118.30 B dst. Columbus Southerly WWTP

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
22300	<i>Argia sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52520	<i>Hydropsyche bidens</i>	+			
52560	<i>Hydropsyche orris</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
77740	<i>Hayesomyia senata</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82130	<i>Thienemanniella similis</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82770	<i>Chironomus (C.) riparius group</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
87540	<i>Hemerodromia sp</i>	+			
95100	<i>Physella sp</i>	+			
96930	<i>Laevapex fuscus</i>	+			
97601	<i>Corbicula fluminea</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 27
No. Qualitative Taxa: 27	ICI:
Number of Organisms: 0	Qual EPT: 3

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River
upst. Big Walnut Creek

Collection Date: 08/28/1996 River Code: 02-001 RM: 117.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	82130	<i>Thienemanniella similis</i>	277 +
01200	<i>Cordylophora lacustris</i>	1 +	82730	<i>Chironomus (C.) decorus group</i>	+
01801	<i>Turbellaria</i>	+	82820	<i>Cryptochironomus sp</i>	+
03040	<i>Fredericella sp</i>	+	83300	<i>Glyptotendipes (G.) sp</i>	953 +
03121	<i>Paludicella articulata</i>	1 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1589 +
03360	<i>Plumatella sp</i>	1 +	84470	<i>Polypedilum (P.) illinoense</i>	+
03600	<i>Oligochaeta</i>	73	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
04666	<i>Helobdella triserialis</i>	+	84700	<i>Stenochironomus sp</i>	+
06700	<i>Crangonyx sp</i>	+	85625	<i>Rheotanytarsus sp</i>	5163 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85814	<i>Tanytarsus glabrescens group</i>	79
08601	<i>Hydrachnidia</i>	32	89501	<i>Ephyridae</i>	+
11130	<i>Baetis intercalaris</i>	37	93900	<i>Elimia sp</i>	+
13400	<i>Stenacron sp</i>	38	95100	<i>Physella sp</i>	1 +
13550	<i>Maccaffertium mexicanum integrum</i>	75 +	96900	<i>Ferrissia sp</i>	110 +
13570	<i>Maccaffertium terminatum</i>	150 +	97601	<i>Corbicula fluminea</i>	+
16700	<i>Tricorythodes sp</i>	140 +	99140	<i>Anodonta suborbiculata</i>	+
17200	<i>Caenis sp</i>	+	99240	<i>Lasmigona complanata</i>	+
22001	<i>Coenagrionidae</i>	+	99640	<i>Truncilla donaciformis</i>	+
22300	<i>Argia sp</i>	68 +	99680	<i>Leptodea fragilis</i>	+
27404	<i>Neurocordulia molesta</i>	+			
45400	<i>Trichocorixa sp</i>	+	No. Quantitative Taxa: 34		Total Taxa: 63
48410	<i>Corydalus cornutus</i>	1	No. Qualitative Taxa: 52		ICI: 46
51300	<i>Neureclipsis sp</i>	113 +	Number of Organisms: 15825		Qual EPT: 11
52200	<i>Cheumatopsyche sp</i>	4326 +			
52520	<i>Hydropsyche bidens</i>	285 +			
52560	<i>Hydropsyche orris</i>	985			
52570	<i>Hydropsyche simulans</i>	11 +			
52580	<i>Hydropsyche valanis</i>	17 +			
52801	<i>Potamyia flava</i>	2			
53800	<i>Hydroptila sp</i>	33 +			
59140	<i>Ceraclea maculata</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	119 +			
74100	<i>Simulium sp</i>	34 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	79 +			
77740	<i>Hayesomyia senata</i>	397 +			
78140	<i>Labrundinia pilosella</i>	79			
80410	<i>Cricotopus (C.) sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	79			
81229	<i>Nanocladius (N.) crassicornus</i>	477			
81240	<i>Nanocladius (N.) distinctus</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/28/1996 River Code: 02-001 RM: 116.30

1.0 mi. upst. St. Rt. 762

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01200	<i>Cordylophora lacustris</i>	1	80410	<i>Cricotopus (C.) sp</i>	201 +
01801	<i>Turbellaria</i>	30 +	80430	<i>Cricotopus (C.) tremulus group</i>	67
03360	<i>Plumatella sp</i>	2	81229	<i>Nanocladius (N.) crassicornus</i>	67 +
03451	<i>Urnatella gracilis</i>	+	81240	<i>Nanocladius (N.) distinctus</i>	67
03600	<i>Oligochaeta</i>	40 +	82130	<i>Thienemanniella similis</i>	256 +
04664	<i>Helobdella stagnalis</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
04666	<i>Helobdella triserialis</i>	1 +	83040	<i>Dicrotendipes neomodestus</i>	67 +
06700	<i>Crangonyx sp</i>	+	83050	<i>Dicrotendipes lucifer</i>	201 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	83051	<i>Dicrotendipes simpsoni</i>	134
11130	<i>Baetis intercalaris</i>	8	83300	<i>Glyptotendipes (G.) sp</i>	2144 +
11670	<i>Proclloeon viridoculare</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1139 +
13000	<i>Leucrocuta sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	67
13100	<i>Nixe sp</i>	+	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
13400	<i>Stenacron sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	67 +
13510	<i>Maccaffertium exiguum</i>	48	85625	<i>Rheotanytarsus sp</i>	2278 +
13550	<i>Maccaffertium mexicanum integrum</i>	4	87501	<i>Empididae</i>	1
13570	<i>Maccaffertium terminatum</i>	15 +	93900	<i>Elimia sp</i>	+
16700	<i>Tricorythodes sp</i>	204 +	96900	<i>Ferrissia sp</i>	11 +
17200	<i>Caenis sp</i>	+	97601	<i>Corbicula fluminea</i>	1
22001	<i>Coenagrionidae</i>	+	98600	<i>Sphaerium sp</i>	+
22300	<i>Argia sp</i>	17 +	99100	<i>Pyganodon grandis</i>	+
24900	<i>Gomphus sp</i>	+	99120	<i>Utterbackia imbecillis</i>	+
26700	<i>Macromia sp</i>	+	99240	<i>Lasmigona complanata</i>	+
27404	<i>Neurocordulia molesta</i>	+	99400	<i>Quadrula quadrula</i>	+
43300	<i>Ranatra sp</i>	+	99640	<i>Truncilla donaciformis</i>	+
48410	<i>Corydalus cornutus</i>	1	99680	<i>Leptodea fragilis</i>	+
51300	<i>Neureclipsis sp</i>	51 +	99860	<i>Lampsilis radiata luteola</i>	+
52200	<i>Cheumatopsyche sp</i>	2059 +	99880	<i>Lampsilis cardium</i>	+
52520	<i>Hydropsyche bidens</i>	94			
52560	<i>Hydropsyche orris</i>	316 +	No. Quantitative Taxa: 38		Total Taxa: 72
52570	<i>Hydropsyche simulans</i>	11	No. Qualitative Taxa: 57		ICI: 40
52580	<i>Hydropsyche valanis</i>	+	Number of Organisms: 10361		Qual EPT: 13
52801	<i>Potamyia flava</i>	2			
53800	<i>Hydroptila sp</i>	18 +			
59500	<i>Oecetis sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	1 +			
69400	<i>Stenelmis sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	134 +			
77740	<i>Hayesomyia senata</i>	536 +			
78655	<i>Procladius (Holotanypus) sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River

Collection Date: 08/28/1996 River Code: 02-001 RM: 114.00

1.3 miles dst. St. Rt. 762

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	24 +	82820	<i>Cryptochironomus sp</i>	+
03121	<i>Paludicella articulata</i>	1 +	83040	<i>Dicrotendipes neomodestus</i>	31
03360	<i>Plumatella sp</i>	2 +	83300	<i>Glyptotendipes (G.) sp</i>	499 +
03600	<i>Oligochaeta</i>	8	84450	<i>Polypedilum (Uresipedilum) flavum</i>	406 +
05800	<i>Caecidotea sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
06700	<i>Crangonyx sp</i>	+	85625	<i>Rheotanytarsus sp</i>	1217 +
08601	<i>Hydrachnidia</i>	32	86100	<i>Chrysops sp</i>	+
11130	<i>Baetis intercalaris</i>	364 +	87540	<i>Hemerodromia sp</i>	40 +
13510	<i>Maccaffertium exiguum</i>	39 +	93900	<i>Elimia sp</i>	+
13570	<i>Maccaffertium terminatum</i>	9	96900	<i>Ferrissia sp</i>	+
16700	<i>Tricorythodes sp</i>	279 +	97601	<i>Corbicula fluminea</i>	+
17200	<i>Caenis sp</i>	8 +	99320	<i>Tritogonia verrucosa</i>	+
22300	<i>Argia sp</i>	8 +	99400	<i>Quadrula quadrula</i>	+
24900	<i>Gomphus sp</i>	+	99640	<i>Truncilla donaciformis</i>	+
26700	<i>Macromia sp</i>	+	99660	<i>Truncilla truncata</i>	+
27404	<i>Neurocordulia molesta</i>	1	99680	<i>Leptodea fragilis</i>	+
45300	<i>Sigara sp</i>	+			
45400	<i>Trichocorixa sp</i>	+	No. Quantitative Taxa: 34		Total Taxa: 60
51300	<i>Neureclipsis sp</i>	15 +	No. Qualitative Taxa: 49		ICI: 44
52200	<i>Cheumatopsyche sp</i>	2233 +	Number of Organisms: 8141		Qual EPT: 12
52520	<i>Hydropsyche bidens</i>	271 +			
52560	<i>Hydropsyche orris</i>	630 +			
52570	<i>Hydropsyche simulans</i>	96 +			
52580	<i>Hydropsyche valanis</i>	11 +			
52801	<i>Potamyia flava</i>	1 +			
53800	<i>Hydroptila sp</i>	115 +			
60400	<i>Gyrinus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	2 +			
74100	<i>Simulium sp</i>	32 +			
77740	<i>Hayesomyia senata</i>	1030 +			
80410	<i>Cricotopus (C.) sp</i>	94			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	31			
81229	<i>Nanocladius (N.) crassicornus</i>	406			
81240	<i>Nanocladius (N.) distinctus</i>	31			
81250	<i>Nanocladius (N.) minimus</i>	31			
82130	<i>Thienemanniella similis</i>	144			
82730	<i>Chironomus (C.) decorus group</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/29/1996 River Code: 02-001 RM: 109.40

St. Rt. 316

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	69400	<i>Stenelmis sp</i>	60 +
01801	<i>Turbellaria</i>	66 +	74100	<i>Simulium sp</i>	76 +
03000	<i>Ectoprocta</i>	2 +	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	503 +
03040	<i>Fredericella sp</i>	1 +	78450	<i>Nilotanytus fimbriatus</i>	16
03360	<i>Plumatella sp</i>	3 +	80410	<i>Cricotopus (C.) sp</i>	+
03600	<i>Oligochaeta</i>	64 +	80430	<i>Cricotopus (C.) tremulus group</i>	34 +
06201	<i>Hyaella azteca</i>	+	81229	<i>Nanocladius (N.) crassicornus</i>	101 +
06700	<i>Crangonyx sp</i>	+	82130	<i>Thienemanniella similis</i>	16 +
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
08601	<i>Hydrachnidia</i>	24	82820	<i>Cryptochironomus sp</i>	+
11130	<i>Baetis intercalaris</i>	713 +	83300	<i>Glyptotendipes (G.) sp</i>	134 +
11200	<i>Callibaetis sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	469 +
12200	<i>Isonychia sp</i>	27 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	67 +
13400	<i>Stenacron sp</i>	+	85625	<i>Rheotanytarsus sp</i>	1910 +
13510	<i>Maccaffertium exiguum</i>	31 +	87540	<i>Hemerodromia sp</i>	81
13550	<i>Maccaffertium mexicanum integrum</i>	16 +	92615	<i>Cipangopaludina japonica</i>	+
13570	<i>Maccaffertium terminatum</i>	5 +	93900	<i>Elimia sp</i>	+
16700	<i>Tricorythodes sp</i>	213 +	95100	<i>Physella sp</i>	8 +
17200	<i>Caenis sp</i>	33	96900	<i>Ferrissia sp</i>	33 +
22001	<i>Coenagrionidae</i>	+	97601	<i>Corbicula fluminea</i>	1 +
22300	<i>Argia sp</i>	+	98600	<i>Sphaerium sp</i>	1 +
25620	<i>Stylurus spiniceps</i>	+	99240	<i>Lasmigona complanata</i>	+
27404	<i>Neurocordulia molesta</i>	+	99320	<i>Tritogonia verrucosa</i>	+
45300	<i>Sigara sp</i>	+	99400	<i>Quadrula quadrula</i>	+
45400	<i>Trichocorixa sp</i>	+	99640	<i>Truncilla donaciformis</i>	+
48410	<i>Corydalus cornutus</i>	3 +	99680	<i>Leptodea fragilis</i>	+
51300	<i>Neureclipsis sp</i>	56 +			
52200	<i>Cheumatopsyche sp</i>	3263 +	No. Quantitative Taxa: 41		Total Taxa: 70
52430	<i>Ceratopsyche morosa group</i>	47	No. Qualitative Taxa: 62		ICI: 54
52520	<i>Hydropsyche bidens</i>	94 +	Number of Organisms: 9269		Qual EPT: 15
52560	<i>Hydropsyche orris</i>	798 +			
52570	<i>Hydropsyche simulans</i>	193 +			
52580	<i>Hydropsyche valanis</i>	13			
52801	<i>Potamyia flava</i>	54 +			
53800	<i>Hydroptila sp</i>	37 +			
59140	<i>Ceraclea maculata</i>	2			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68130	<i>Helichus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68700	<i>Dubiraphia sp</i>	1			
68901	<i>Macronychus glabratus</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto River
dst. Walnut Creek

Collection Date: 08/29/1996 River Code: 02-001 RM: 106.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	80430	<i>Cricotopus (C.) tremulus group</i>	+
01801	<i>Turbellaria</i>	1 +	80440	<i>Cricotopus (C.) trifascia</i>	+
01900	<i>Nemertea</i>	8	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	59 +
03360	<i>Plumatella sp</i>	2 +	82130	<i>Thienemanniella similis</i>	160
03600	<i>Oligochaeta</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82820	<i>Cryptochironomus sp</i>	+
08601	<i>Hydrachnidia</i>	32	83040	<i>Dicrotendipes neomodestus</i>	+
11130	<i>Baetis intercalaris</i>	837 +	83300	<i>Glyptotendipes (G.) sp</i>	296
11670	<i>Procloeon viridoculare</i>	+	84116	<i>Paracladopelma nereis</i>	+
12200	<i>Isonychia sp</i>	266 +	84300	<i>Phaenopsectra obediens group</i>	+
13000	<i>Leucrocota sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	1952 +
13100	<i>Nixe sp</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13510	<i>Maccaffertium exiguum</i>	281 +	85625	<i>Rheotanytarsus sp</i>	3314 +
13550	<i>Maccaffertium mexicanum integrum</i>	5	85800	<i>Tanytarsus sp</i>	+
13570	<i>Maccaffertium terminatum</i>	+	87540	<i>Hemerodromia sp</i>	97 +
16700	<i>Tricorythodes sp</i>	105 +	89501	<i>Ephydriidae</i>	+
17200	<i>Caenis sp</i>	64 +	97601	<i>Corbicula fluminea</i>	1
24900	<i>Gomphus sp</i>	+	99680	<i>Leptodea fragilis</i>	+
26700	<i>Macromia sp</i>	+	99700	<i>Potamilus alatus</i>	+
45100	<i>Palmacorixa sp</i>	+			
45400	<i>Trichocorixa sp</i>	+	No. Quantitative Taxa: 30		Total Taxa: 63
48410	<i>Corydalus cornutus</i>	6 +	No. Qualitative Taxa: 54		ICI: 48
49200	<i>Climacia sp</i>	+	Number of Organisms: 19098		Qual EPT: 17
51206	<i>Cyrnellus fraternus</i>	1			
51300	<i>Neureclipsis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	5436 +			
52430	<i>Ceratopsyche morosa group</i>	17			
52510	<i>Hydropsyche aerata</i>	+			
52520	<i>Hydropsyche bidens</i>	727 +			
52560	<i>Hydropsyche orris</i>	1577 +			
52570	<i>Hydropsyche simulans</i>	1215 +			
52580	<i>Hydropsyche valanis</i>	2			
52801	<i>Potamyia flava</i>	1457 +			
53800	<i>Hydroptila sp</i>	1 +			
60900	<i>Peltodytes sp</i>	+			
67500	<i>Laccobius sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
69400	<i>Stenelmis sp</i>	80 +			
74100	<i>Simulium sp</i>	34 +			
74501	<i>Ceratopogonidae</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77130	<i>Ablabesmyia rhamphe group</i>	+			
77740	<i>Hayesomyia senata</i>	1065 +			
80420	<i>Cricotopus (C.) bicinctus</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/29/1996 River Code: 02-001 RM: 102.00

Commercial Point Rd.

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	558 +
01801	<i>Turbellaria</i>	+	78140	<i>Labrundinia pilosella</i>	+
03121	<i>Paludicella articulata</i>	+	80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	33
03360	<i>Plumatella sp</i>	+	80420	<i>Cricotopus (C.) bicinctus</i>	+
03600	<i>Oligochaeta</i>	+	80440	<i>Cricotopus (C.) trifascia</i>	+
06201	<i>Hyaella azteca</i>	+	81231	<i>Nanocladius (N.) crassicornus or N. (N.) "rectinervis"</i>	66
08255	<i>Orconectes rusticus x sanbornii</i>	+	82130	<i>Thienemanniella similis</i>	33
08601	<i>Hydrachnidia</i>	80 +	82730	<i>Chironomus (C.) decorus group</i>	+
11130	<i>Baetis intercalaris</i>	1041 +	82820	<i>Cryptochironomus sp</i>	+
11200	<i>Callibaetis sp</i>	+	83040	<i>Dicrotendipes neomodestus</i>	+
12200	<i>Isonychia sp</i>	182 +	83300	<i>Glyptotendipes (G.) sp</i>	33
13000	<i>Leucrocuta sp</i>	4 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	722 +
13400	<i>Stenacron sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
13510	<i>Maccaffertium exiguum</i>	395 +	84520	<i>Polypedilum (Tripodura) halterale group</i>	+
13550	<i>Maccaffertium mexicanum integrum</i>	4 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	33
13561	<i>Maccaffertium pulchellum</i>	17	84960	<i>Pseudochironomus sp</i>	+
13570	<i>Maccaffertium terminatum</i>	17 +	85625	<i>Rheotanytarsus sp</i>	1675 +
16700	<i>Tricorythodes sp</i>	80 +	87540	<i>Hemerodromia sp</i>	16
17200	<i>Caenis sp</i>	64 +	93900	<i>Elimia sp</i>	+
22001	<i>Coenagrionidae</i>	+	95100	<i>Physella sp</i>	+
22300	<i>Argia sp</i>	+	96900	<i>Ferrissia sp</i>	+
24900	<i>Gomphus sp</i>	+	97601	<i>Corbicula fluminea</i>	+
25300	<i>Ophiogomphus sp</i>	+	99320	<i>Tritogonia verrucosa</i>	+
45300	<i>Sigara sp</i>	+	99680	<i>Leptodea fragilis</i>	+
45400	<i>Trichocorixa sp</i>	+	99720	<i>Potamilus ohioensis</i>	+
48410	<i>Corydalus cornutus</i>	5 +			
51300	<i>Neureclipsis sp</i>	1 +			
52200	<i>Cheumatopsyche sp</i>	2041 +			
52520	<i>Hydropsyche bidens</i>	49			
52560	<i>Hydropsyche orris</i>	1616 +	No. Quantitative Taxa: 29	Total Taxa: 69	
52570	<i>Hydropsyche simulans</i>	575 +	No. Qualitative Taxa: 61	ICI: 54	
52580	<i>Hydropsyche valanis</i>	+	Number of Organisms: 10219	Qual EPT: 17	
52801	<i>Potamyia flava</i>	764 +			
53800	<i>Hydroptila sp</i>	16 +			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
66500	<i>Enochrus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68700	<i>Dubiraphia sp</i>	+			
69400	<i>Stenelmis sp</i>	37 +			
74100	<i>Simulium sp</i>	62 +			
77120	<i>Ablabesmyia mallochi</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Scioto River

Collection Date: 08/29/1996 River Code: 02-001 RM: 100.10

upst. U.S. Rt. 22 upst. Hargus Creek

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+	81229	<i>Nanocladius (N.) crassicornus</i>	34
01801	<i>Turbellaria</i>	32	82130	<i>Thienemanniella similis</i>	88
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
08601	<i>Hydrachnidia</i>	48	83040	<i>Dicrotendipes neomodestus</i>	+
11120	<i>Baetis flavistriga</i>	2	83300	<i>Glyptotendipes (G.) sp</i>	+
11130	<i>Baetis intercalaris</i>	1168 +	84450	<i>Polypedilum (Uresipedilum) flavum</i>	601 +
12200	<i>Isonychia sp</i>	250 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	17 +
13000	<i>Leucrocuta sp</i>	15 +	85625	<i>Rheotanytarsus sp</i>	859 +
13100	<i>Nixe sp</i>	+	93900	<i>Elimia sp</i>	+
13510	<i>Maccaffertium exiguum</i>	570 +	95100	<i>Physella sp</i>	+
13521	<i>Stenonema femoratum</i>	+	96900	<i>Ferrissia sp</i>	+
13550	<i>Maccaffertium mexicanum integrum</i>	5	98600	<i>Sphaerium sp</i>	+
13561	<i>Maccaffertium pulchellum</i>	90	99240	<i>Lasmigona complanata</i>	+
16700	<i>Tricorythodes sp</i>	42 +	99400	<i>Quadrula quadrula</i>	+
17200	<i>Caenis sp</i>	33 +	99640	<i>Truncilla donaciformis</i>	+
22001	<i>Coenagrionidae</i>	+	99680	<i>Leptodea fragilis</i>	+
25300	<i>Ophiogomphus sp</i>	+			
34700	<i>Agnetina capitata complex</i>	1	No. Quantitative Taxa: 32		Total Taxa: 60
45400	<i>Trichocorixa sp</i>	+	No. Qualitative Taxa: 47		ICI: 56
48410	<i>Corydalus cornutus</i>	2 +	Number of Organisms: 9214		Qual EPT: 16
50315	<i>Chimarra obscura</i>	+			
51300	<i>Neureclipsis sp</i>	11 +			
52200	<i>Cheumatopsyche sp</i>	1590 +			
52430	<i>Ceratopsyche morosa group</i>	123			
52520	<i>Hydropsyche bidens</i>	530			
52560	<i>Hydropsyche orris</i>	1590 +			
52570	<i>Hydropsyche simulans</i>	595 +			
52580	<i>Hydropsyche valanis</i>	+			
52620	<i>Macrostemum zebratum</i>	2			
52801	<i>Potamyia flava</i>	477 +			
53800	<i>Hydroptila sp</i>	32 +			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
69400	<i>Stenelmis sp</i>	20 +			
74100	<i>Simulium sp</i>	147 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77740	<i>Hayesomyia senata</i>	206 +			
78450	<i>Nilotanypus fimbriatus</i>	17			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80410	<i>Cricotopus (C.) sp</i>	17			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Griffy Run
Walnut Creek Pike

Collection Date: 08/12/2010 River Code: 02-076 RM: 1.10

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05900	<i>Lirceus sp</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
13590	<i>Maccaffertium vicarium</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
50301	<i>Chimarra aterrima</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53501	<i>Hydroptilidae</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
64800	<i>Uvarus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
70600	<i>Antocha sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84469	<i>Polypedilum (P.) illinoense group</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
85261	<i>Cladotanytarsus vanderwulpi group sp 1</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
87540	<i>Hemerodromia sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 36
 No. Qualitative Taxa: 36 ICI:
 Number of Organisms: 0 Qual EPT: 13

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Dry Run

Collection Date: 08/12/2010 River Code: 02-077 RM: 4.35

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
06700	<i>Crangonyx sp</i>	+			
08601	<i>Hydrachnidia</i>	+			
11130	<i>Baetis intercalaris</i>	+			
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+			
11650	<i>Procloeon sp (w/ hindwing pads)</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23804	<i>Basiaeschna janata</i>	+			
24900	<i>Gomphus sp</i>	+			
27500	<i>Somatochlora sp</i>	+			
45300	<i>Sigara sp</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
59300	<i>Mystacides sp</i>	+			
60400	<i>Gyrinus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71800	<i>Pseudolimnophila sp</i>	+			
71900	<i>Tipula sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78500	<i>Paramerina fragilis</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83003	<i>Dicrotendipes fumidus</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84460	<i>Polypedilum (P.) fallax group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84612	<i>Saetheria tylus</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
86100	<i>Chrysops sp</i>	+			
95100	<i>Physella sp</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Dry Run
 Island Rd.

Collection Date: 08/11/2010 River Code: 02-077 RM: 0.50

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	84100	<i>Paracladopelma sp</i>	+
03600	<i>Oligochaeta</i>	+	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
04685	<i>Placobdella ornata</i>	+	85500	<i>Paratanytarsus sp</i>	+
05900	<i>Lirceus sp</i>	+	85625	<i>Rheotanytarsus sp</i>	+
06700	<i>Crangonyx sp</i>	+	85800	<i>Tanytarsus sp</i>	+
08200	<i>Orconectes sp</i>	+	85840	<i>Tanytarsus sepp</i>	+
08601	<i>Hydrachnidia</i>	+	86100	<i>Chrysops sp</i>	+
11120	<i>Baetis flavistriga</i>	+	87400	<i>Stratiomys sp</i>	+
11130	<i>Baetis intercalaris</i>	+	93900	<i>Elimia sp</i>	+
13400	<i>Stenacron sp</i>	+	94603	<i>Pseudosuccinea columella</i>	+
13521	<i>Stenonema femoratum</i>	+	95100	<i>Physella sp</i>	+
13590	<i>Maccaffertium vicarium</i>	+	96900	<i>Ferrissia sp</i>	+
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 56
21300	<i>Hetaerina sp</i>	+	No. Qualitative Taxa: 56		ICI:
22001	<i>Coenagrionidae</i>	+	Number of Organisms: 0		Qual EPT: 14
23909	<i>Boyeria vinosa</i>	+			
44501	<i>Corixidae</i>	+			
47600	<i>Sialis sp</i>	+			
50804	<i>Lype diversa</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
54160	<i>Ochrotrichia sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60400	<i>Gyrinus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
77800	<i>Helopelopia sp</i>	+			
78140	<i>Labrundinia pilosella</i>	+			
78500	<i>Paramerina fragilis</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83003	<i>Dicrotendipes fumidus</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
83840	<i>Microtendipes pedellus group</i>	+	188		

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Van Meter Run
 St. Rt. 104

Collection Date: 07/08/2010 River Code: 02-088 RM: 1.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	74501	<i>Ceratopogonidae</i>	+
03600	<i>Oligochaeta</i>	+	77120	<i>Ablabesmyia mallochi</i>	+
04935	<i>Erpobdella punctata punctata</i>	+	77500	<i>Conchapelopia sp</i>	+
06700	<i>Crangonyx sp</i>	+	77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+
08601	<i>Hydrachnidia</i>	+	77800	<i>Helopelopia sp</i>	+
11120	<i>Baetis flavistriga</i>	+	78140	<i>Labrundinia pilosella</i>	+
11125	<i>Labiobaetis frondalis</i>	+	78450	<i>Nilotanypus fimbriatus</i>	+
11130	<i>Baetis intercalaris</i>	+	80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	+
11200	<i>Callibaetis sp</i>	+	81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+
11250	<i>Centroptilum sp (w/o hindwing pads)</i>	+	82141	<i>Thienemanniella xena</i>	+
13400	<i>Stenacron sp</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
13521	<i>Stenonema femoratum</i>	+	82820	<i>Cryptochironomus sp</i>	+
17200	<i>Caenis sp</i>	+	83003	<i>Dicrotendipes fumidus</i>	+
21200	<i>Calopteryx sp</i>	+	83040	<i>Dicrotendipes neomodestus</i>	+
22001	<i>Coenagrionidae</i>	+	84300	<i>Phaenopsectra obediens group</i>	+
22300	<i>Argia sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	+
45300	<i>Sigara sp</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	+
50315	<i>Chimarra obscura</i>	+	84475	<i>Polypedilum (P.) ophioides</i>	+
51600	<i>Polycentropus sp</i>	+	84750	<i>Stictochironomus sp</i>	+
52200	<i>Cheumatopsyche sp</i>	+	85500	<i>Paratanytarsus sp</i>	+
52530	<i>Hydropsyche depravata group</i>	+	85625	<i>Rheotanytarsus sp</i>	+
53800	<i>Hydroptila sp</i>	+	85800	<i>Tanytarsus sp</i>	+
58505	<i>Helicopsyche borealis</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
59300	<i>Mystacides sp</i>	+	87540	<i>Hemerodromia sp</i>	+
59410	<i>Nectopsyche diarina</i>	+	95100	<i>Physella sp</i>	+
60900	<i>Peltodytes sp</i>	+	96900	<i>Ferrissia sp</i>	+
63300	<i>Hydroporini</i>	+	98600	<i>Sphaerium sp</i>	+
63900	<i>Laccophilus sp</i>	+			
64800	<i>Uvarus sp</i>	+			
66500	<i>Enochrus sp</i>	+			
67000	<i>Helophorus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 71
 No. Qualitative Taxa: 71 ICI:
 Number of Organisms: 0 Qual EPT: 16

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Grove Run
Gibson Rd.

Collection Date: 08/11/2010 River Code: 02-089 RM: 1.58

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04685	<i>Placobdella ornata</i>	+			
08260	<i>Orconectes (Crockerinus) sanbornii sanbornii</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11200	<i>Callibaetis sp</i>	+			
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59300	<i>Mystacides sp</i>	+			
67100	<i>Hydrobius sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
85720	<i>Stempellinella fimbriata</i>	+			
86100	<i>Chrysops sp</i>	+			
89716	<i>Limnophora discreta</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 38
 No. Qualitative Taxa: 38 ICI:
 Number of Organisms: 0 Qual EPT: 10

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Plum Run

Collection Date: 08/09/2010 River Code: 02-090 RM: 0.72

St. Rt. 665

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03000	<i>Ectoprocta</i>	+	87510	<i>Neoplasta sp</i>	+
03600	<i>Oligochaeta</i>	+	95100	<i>Physella sp</i>	+
08601	<i>Hydrachnidia</i>	+			
11200	<i>Callibaetis sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 46
13521	<i>Stenonema femoratum</i>	+	No. Qualitative Taxa: 46		ICI:
17200	<i>Caenis sp</i>	+	Number of Organisms: 0		Qual EPT: 6
21001	<i>Calopterygidae</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
23804	<i>Basiaeschna janata</i>	+			
23909	<i>Boyeria vinosa</i>	+			
45300	<i>Sigara sp</i>	+			
45900	<i>Notonecta sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
59300	<i>Mystacides sp</i>	+			
63300	<i>Hydroporini</i>	+			
68130	<i>Helichus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
69400	<i>Stenelmis sp</i>	+			
70600	<i>Antocha sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78500	<i>Paramerina fragilis</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
82200	<i>Tvetenia bavarica group</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85615	<i>Rheotanytarsus pellucidus</i>	+			
85800	<i>Tanytarsus sp</i>	+			
86100	<i>Chrysops sp</i>	+			
			191		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Grant Run
Buckeye Parkway

Collection Date: 08/12/2010 River Code: 02-091 RM: 2.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03040	<i>Fredericella sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 43
03600	<i>Oligochaeta</i>	+	No. Qualitative Taxa: 43		ICI:
04666	<i>Helobdella triserialis</i>	+	Number of Organisms: 0		Qual EPT: 10
04901	<i>Erpobdellidae</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
27500	<i>Somatochlora sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53501	<i>Hydroptilidae</i>	+			
59300	<i>Mystacides sp</i>	+			
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
93200	<i>Hydrobiidae</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
97601	<i>Corbicula fluminea</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Grant Run

Collection Date: 08/12/2010 River Code: 02-091 RM: 0.20

5683 Paul Talbot Drive

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	85800	<i>Tanytarsus sp</i>	+
03600	<i>Oligochaeta</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	+
04935	<i>Erpobdella punctata punctata</i>	+	93200	<i>Hydrobiidae</i>	+
04964	<i>Mooreobdella microstoma</i>	+	95100	<i>Physella sp</i>	+
06201	<i>Hyaella azteca</i>	+	96002	<i>Helisoma anceps anceps</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	97601	<i>Corbicula fluminea</i>	+
11120	<i>Baetis flavistriga</i>	+	98600	<i>Sphaerium sp</i>	+
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+	No. Quantitative Taxa: 0		Total Taxa: 51
13521	<i>Stenonema femoratum</i>	+	No. Qualitative Taxa: 51		ICI:
17200	<i>Caenis sp</i>	+	Number of Organisms: 0		Qual EPT: 11
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23804	<i>Basiaeschna janata</i>	+			
23909	<i>Boyeria vinosa</i>	+			
27500	<i>Somatochlora sp</i>	+			
29000	<i>Sympetrum sp</i>	+			
42700	<i>Belostoma sp</i>	+			
43300	<i>Ranatra sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59300	<i>Mystacides sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
adj. Big Run Rd.

Collection Date: 08/10/2010 River Code: 02-092 RM: 4.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03000	<i>Ectoprocta</i>	+			
06700	<i>Crangonyx sp</i>	+			
08200	<i>Orconectes sp</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
70600	<i>Antocha sp</i>	+			
71900	<i>Tipula sp</i>	+			
71910	<i>Tipula abdominalis</i>	+			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
81690	<i>Paratrichocladius sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 30
 No. Qualitative Taxa: 30 ICI:
 Number of Organisms: 0 Qual EPT: 5

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
Hardy Parkway

Collection Date: 08/10/2010 River Code: 02-092 RM: 2.90

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
27500	<i>Somatochlora sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
74100	<i>Simulium sp</i>	+			
74673	<i>Atrichopogon websteri</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81460	<i>Orthocladius (O.) sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84612	<i>Saetheria tylus</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
85840	<i>Tanytarsus sepp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 33
 No. Qualitative Taxa: 33 ICI:
 Number of Organisms: 0 Qual EPT: 7

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
dst. W. Broad St.

Collection Date: 10/03/2008 River Code: 02-092 RM: 11.00

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
28908	<i>Perithemis tenera</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63900	<i>Laccophilus sp</i>	+			
74100	<i>Simulium sp</i>	+			
87400	<i>Stratiomys sp</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 14
No. Qualitative Taxa: 14	ICI:
Number of Organisms: 0	Qual EPT: 1

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
dst. Broad St.

Collection Date: 10/03/2008 River Code: 02-092 RM: 10.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
74100	<i>Simulium sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
85615	<i>Rheotanytarsus pellucidus</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 16
No. Qualitative Taxa: 16	ICI:
Number of Organisms: 0	Qual EPT: 1

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
upst. I-270

Collection Date: 10/01/2007 River Code: 02-092 RM: 8.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
11130	<i>Baetis intercalaris</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
60900	<i>Peltodytes sp</i>	+			
71900	<i>Tipula sp</i>	+			
74100	<i>Simulium sp</i>	+			
83040	<i>Dicrotendipes neomodestus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 18
No. Qualitative Taxa: 18	ICI:
Number of Organisms: 0	Qual EPT: 3

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run

Collection Date: 10/01/2007 River Code: 02-092 RM: 7.10

Big Run Metropark, at end of Derby Hill

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04685	<i>Placobdella ornata</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
08200	<i>Orconectes sp</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
27307	<i>Epitheca (Epicordulia) princeps</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78350	<i>Meropelopia sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82141	<i>Thienemanniella xena</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85840	<i>Tanytarsus sepp</i>	+			
97601	<i>Corbicula fluminea</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 30
 No. Qualitative Taxa: 30 ICI:
 Number of Organisms: 0 Qual EPT: 6

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
upst. Gantz Rd., upst. Early Run

Collection Date: 10/01/2007 River Code: 02-092 RM: 3.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
04685	<i>Placobdella ornata</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
74100	<i>Simulium sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
81650	<i>Parametriocnemus sp</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 21
No. Qualitative Taxa: 21	ICI:
Number of Organisms: 0	Qual EPT: 4

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
Hardy Parkway

Collection Date: 10/01/2007 River Code: 02-092 RM: 2.70

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04685	<i>Placobdella ornata</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
81460	<i>Orthocladius (O.) sp</i>	+			
82141	<i>Thienemanniella xena</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85840	<i>Tanytarsus sepp</i>	+			
96900	<i>Ferrissia sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 22
No. Qualitative Taxa: 22	ICI:
Number of Organisms: 0	Qual EPT: 4

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Scioto Big Run
upst. I-71

Collection Date: 10/01/2007 River Code: 02-092 RM: 1.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00653	<i>Eunapius fragilis</i>	+			
00670	<i>Heteromeyenia sp</i>	+			
01801	<i>Turbellaria</i>	+			
03040	<i>Fredericella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
53800	<i>Hydroptila sp</i>	+			
69400	<i>Stenelmis sp</i>	+			
81690	<i>Paratrichocladius sp</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
87540	<i>Hemerodromia sp</i>	+			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			
97710	<i>Dreissena polymorpha</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 27
No. Qualitative Taxa: 27	ICI:
Number of Organisms: 0	Qual EPT: 6

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Dry Run
McKinley Ave.

Collection Date: 08/09/2010 River Code: 02-095 RM: 1.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
06201	<i>Hyalella azteca</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
70600	<i>Antocha sp</i>	+			
71910	<i>Tipula abdominalis</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78350	<i>Meropelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 24
No. Qualitative Taxa: 24	ICI:
Number of Organisms: 0	Qual EPT: 6

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Hayden Run
Hayden Run Rd.

Collection Date: 07/15/2010 River Code: 02-097 RM: 0.83

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03000	<i>Ectoprocta</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05900	<i>Lirceus sp</i>	+			
06700	<i>Crangonyx sp</i>	+			
08200	<i>Orconectes sp</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
68025	<i>Ectopria sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
69400	<i>Stenelmis sp</i>	+			
71910	<i>Tipula abdominalis</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79020	<i>Tanypus neopunctipennis</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
85720	<i>Stempellinella fimbriata</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 39
 No. Qualitative Taxa: 39 ICI:
 Number of Organisms: 0 Qual EPT: 8

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: North Fork Indian Run
Highland-Croy Rd., adj high school

Collection Date: 07/16/2010 River Code: 02-098 RM: 5.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00556	<i>Ephydatia fluviatilis</i>	+	85625	<i>Rheotanytarsus sp</i>	+
01801	<i>Turbellaria</i>	+	95100	<i>Physella sp</i>	+
01900	<i>Nemertea</i>	+	96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+
03000	<i>Ectoprocta</i>	+	98600	<i>Sphaerium sp</i>	+
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+	No. Quantitative Taxa: 0		Total Taxa: 48
04935	<i>Erpobdella punctata punctata</i>	+	No. Qualitative Taxa: 48		ICI:
04960	<i>Mooreobdella sp</i>	+	Number of Organisms: 0		Qual EPT: 5
05900	<i>Lirceus sp</i>	+			
06201	<i>Hyaella azteca</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11200	<i>Callibaetis sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23501	<i>Aeshnidae</i>	+			
42700	<i>Belostoma sp</i>	+			
49200	<i>Climacia sp</i>	+			
52001	<i>Hydropsychidae</i>	+			
53800	<i>Hydroptila sp</i>	+			
60800	<i>Haliplus sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63400	<i>Hydrovatus sp</i>	+			
64050	<i>Liodessus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
77500	<i>Conchapelopia sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
80430	<i>Cricotopus (C.) tremulus group</i>	+			
80510	<i>Cricotopus (Isocladius) sylvestris group</i>	+			
82101	<i>Thienemanniella taurocapita</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
85500	<i>Paratanytarsus sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: North Fork Indian Run
Coffman Rd.

Collection Date: 07/16/2010 River Code: 02-098 RM: 1.80

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	<hr/> No. Quantitative Taxa: 0 Total Taxa: 43 No. Qualitative Taxa: 43 ICI: Number of Organisms: 0 Qual EPT: 6		
01900	<i>Nemertea</i>	+			
03040	<i>Fredericella sp</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
05800	<i>Caecidotea sp</i>	+			
05900	<i>Lirceus sp</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
27001	<i>Corduliidae</i>	+			
49200	<i>Climacia sp</i>	+			
49400	<i>Sisyra sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53501	<i>Hydroptilidae</i>	+			
59150	<i>Ceraclea resurgens group</i>	+			
60900	<i>Peltodytes sp</i>	+			
65800	<i>Berosus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80410	<i>Cricotopus (C.) sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	+			
83158	<i>Endochironomus nigricans</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
87540	<i>Hemerodromia sp</i>	+			
93900	<i>Elimia sp</i>	+			
94603	<i>Pseudosuccinea columella</i>	+			
95100	<i>Physella sp</i>	+			
96120	<i>Menetus (Micromenetus) dilatatus</i>	+			
98600	<i>Sphaerium sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: South Fork Indian Run
Dublin Rec. Center entrance road

Collection Date: 07/02/2010 River Code: 02-099 RM: 1.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+			
01801	<i>Turbellaria</i>	+			
03000	<i>Ectoprocta</i>	+			
03600	<i>Oligochaeta</i>	+			
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
04964	<i>Mooreobdella microstoma</i>	+			
05800	<i>Caecidotea sp</i>	+			
05900	<i>Lirceus sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
08601	<i>Hydrachnidia</i>	+			
11120	<i>Baetis flavistriga</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53800	<i>Hydroptila sp</i>	+			
59300	<i>Mystacides sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
82141	<i>Thienemanniella xena</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84888	<i>Xenochironomus xenolabis</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
92615	<i>Cipangopaludina japonica</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
97601	<i>Corbicula fluminea</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 39
 No. Qualitative Taxa: 39 ICI:
 Number of Organisms: 0 Qual EPT: 7

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Eversole Run
Concord Rd.

Collection Date: 07/15/2010 River Code: 02-108 RM: 2.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
00401	<i>Spongillidae</i>	+			
01801	<i>Turbellaria</i>	+			
03000	<i>Ectoprocta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04901	<i>Erpobdellidae</i>	+			
05800	<i>Caecidotea sp</i>	+			
05900	<i>Lirceus sp</i>	+			
06700	<i>Crangonyx sp</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
13521	<i>Stenonema femoratum</i>	+			
22001	<i>Coenagrionidae</i>	+			
27500	<i>Somatochlora sp</i>	+			
45300	<i>Sigara sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53501	<i>Hydroptilidae</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
60900	<i>Peltodytes sp</i>	+			
68025	<i>Ectopria sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
78450	<i>Nilotanypus fimbriatus</i>	+			
79400	<i>Zavrelimyia sp</i>	+			
82101	<i>Thienemanniella taurocapita</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+			
85720	<i>Stempellinella fimbriata</i>	+			
93900	<i>Elimia sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
98600	<i>Sphaerium sp</i>	+			

Ohio EPA/DW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Eversole Run
 dst. Cook Rd.

Collection Date: 07/15/2010 River Code: 02-108 RM: 1.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+	93900	<i>Elimia sp</i>	+
03360	<i>Plumatella sp</i>	+	96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+
03600	<i>Oligochaeta</i>	+	98600	<i>Sphaerium sp</i>	+
04664	<i>Helobdella stagnalis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+	No. Quantitative Taxa: 0		Total Taxa: 47
04964	<i>Mooreobdella microstoma</i>	+	No. Qualitative Taxa: 47		ICI:
05900	<i>Lirceus sp</i>	+	Number of Organisms: 0		Qual EPT: 13
06201	<i>Hyaella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
13000	<i>Leucrocuta sp</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
27500	<i>Somatochlora sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51400	<i>Nyctiophylax sp</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
53501	<i>Hydroptilidae</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59730	<i>Triaenodes melaca</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
68025	<i>Ectopria sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
80363	<i>Corynoneura sp 12</i>	+			
80420	<i>Cricotopus (C.) bicinctus</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85625	<i>Rheotanytarsus sp</i>	+	209		

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Eversole Run

Collection Date: 09/24/1999 River Code: 02-108 RM: 0.60

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04686	<i>Placobdella papillifera</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
17200	<i>Caenis sp</i>	+			
28955	<i>Plathemis lydia</i>	+			
60900	<i>Peltodytes sp</i>	+			
66700	<i>Helochaers maculicollis</i>	+			
68201	<i>Scirtidae</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
95100	<i>Physella sp</i>	+			
96930	<i>Laevapex fuscus</i>	+			
99100	<i>Pyganodon grandis</i>	+			
99120	<i>Utterbackia imbecillis</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 14
No. Qualitative Taxa: 14	ICI:
Number of Organisms: 0	Qual EPT: 1

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Eversole Run
dst. Cook Rd.

Collection Date: 09/28/1994 River Code: 02-108 RM: 1.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
06201	<i>Hyalella azteca</i>	+			
08250	<i>Orconectes (Procericambarus) rusticus</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
15000	<i>Paraleptophlebia sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
47600	<i>Sialis sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
63300	<i>Hydroporini</i>	+			
68075	<i>Psephenus herricki</i>	+			
68130	<i>Helichus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
72101	<i>Psychodidae</i>	+			
72160	<i>Psychoda sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
83300	<i>Glyptotendipes (G.) sp</i>	+			
84750	<i>Stictochironomus sp</i>	+			
93900	<i>Elimia sp</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96900	<i>Ferrissia sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 30
 No. Qualitative Taxa: 30 ICI:
 Number of Organisms: 0 Qual EPT: 3

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Bokes Creek
Phelps Rd.

Collection Date: 08/18/2010 River Code: 02-138 RM: 27.22

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	115 +	78450	<i>Nilotanypus fimbriatus</i>	96
03360	<i>Plumatella sp</i>	+	78655	<i>Procladius (Holotanypus) sp</i>	+
03600	<i>Oligochaeta</i>	+	80360	<i>Corynoneura "celeripes" (sensu Simpson & Bode, 1980)</i>	16
04935	<i>Erpobdella punctata punctata</i>	+	80370	<i>Corynoneura lobata</i>	176
04964	<i>Mooreobdella microstoma</i>	+	80420	<i>Cricotopus (C.) bicinctus</i>	36
05800	<i>Caecidotea sp</i>	+	80430	<i>Cricotopus (C.) tremulus group</i>	+
06201	<i>Hyaella azteca</i>	1 +	82101	<i>Thienemanniella taurocapita</i>	16
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	82121	<i>Thienemanniella lobapodema</i>	48
08601	<i>Hydrachnidia</i>	+	82141	<i>Thienemanniella xena</i>	112
11020	<i>Acerpenna pygmaea</i>	+	82730	<i>Chironomus (C.) decorus group</i>	+
11120	<i>Baetis flavistriga</i>	308 +	83840	<i>Microtendipes pedellus group</i>	36
11130	<i>Baetis intercalaris</i>	1353 +	84210	<i>Paratendipes albimanus or P. duplicatus</i>	+
11200	<i>Callibaetis sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	2549 +
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	84470	<i>Polypedilum (P.) illinoense</i>	36 +
13000	<i>Leucrocota sp</i>	4 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
13400	<i>Stenacron sp</i>	53 +	84750	<i>Stictochironomus sp</i>	+
13521	<i>Stenonema femoratum</i>	+	84800	<i>Tribelos jucundum</i>	+
17200	<i>Caenis sp</i>	+	85625	<i>Rheotanytarsus sp</i>	180 +
18750	<i>Hexagenia limbata</i>	+	85821	<i>Tanytarsus glabrescens group sp 7</i>	108
22001	<i>Coenagrionidae</i>	+	87540	<i>Hemerodromia sp</i>	16
22300	<i>Argia sp</i>	36 +	89700	<i>Limnophora sp</i>	+
23909	<i>Boyeria vinosa</i>	+	95100	<i>Physella sp</i>	+
24900	<i>Gomphus sp</i>	+	96900	<i>Ferrissia sp</i>	16 +
27500	<i>Somatochlora sp</i>	+	98600	<i>Sphaerium sp</i>	+
42700	<i>Belostoma sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	1001 +	No. Quantitative Taxa: 28		Total Taxa: 68
52530	<i>Hydropsyche depravata group</i>	2 +	No. Qualitative Taxa: 55		ICI: 38
53800	<i>Hydroptila sp</i>	85	Number of Organisms: 6522		Qual EPT: 12
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
64050	<i>Liodessus sp</i>	+			
65800	<i>Berosus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68201	<i>Scirtidae</i>	+			
68702	<i>Dubiraphia bivittata</i>	+			
68707	<i>Dubiraphia quadrinotata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	17			
69400	<i>Stenelmis sp</i>	67 +			
71900	<i>Tipula sp</i>	16			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	23 +			
77120	<i>Ablabesmyia mallochi</i>	+			

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Bokes Creek
 upst. St. Rt. 47

Collection Date: 08/18/2010 River Code: 02-138 RM: 22.30

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	8	80370	<i>Corynoneura lobata</i>	4
01801	<i>Turbellaria</i>	+	82141	<i>Thienemanniella xena</i>	40
03600	<i>Oligochaeta</i>	+	82820	<i>Cryptochironomus sp</i>	+
05800	<i>Caecidotea sp</i>	+	82885	<i>Cryptotendipes pseudotener</i>	+
06201	<i>Hyaella azteca</i>	+	84210	<i>Paratendipes albimanus</i> or <i>P. duplicatus</i>	+
06700	<i>Crangonyx sp</i>	+	84450	<i>Polypedilum (Uresipedilum) flavum</i>	394 +
08601	<i>Hydrachnidia</i>	9 +	84470	<i>Polypedilum (P.) illinoense</i>	+
11020	<i>Acerpenna pygmaea</i>	280	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
11120	<i>Baetis flavistriga</i>	56 +	84750	<i>Stictochironomus sp</i>	+
11130	<i>Baetis intercalaris</i>	493 +	85625	<i>Rheotanytarsus sp</i>	126
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	85800	<i>Tanytarsus sp</i>	8 +
11670	<i>Procloeon viridoculare</i>	+	86100	<i>Chrysops sp</i>	+
13000	<i>Leucrocota sp</i>	4 +	93200	<i>Hydrobiidae</i>	1 +
13400	<i>Stenacron sp</i>	104 +	93900	<i>Elimia sp</i>	2 +
13521	<i>Stenonema femoratum</i>	5 +	95100	<i>Physella sp</i>	+
17200	<i>Caenis sp</i>	+	98600	<i>Sphaerium sp</i>	+
18708	<i>Hexagenia bilineata</i>	+	99100	<i>Pyganodon grandis</i>	+
21200	<i>Calopteryx sp</i>	+	99160	<i>Anodontoides ferussacianus</i>	+
22001	<i>Coenagrionidae</i>	+	99440	<i>Fusconaia flava</i>	+
22300	<i>Argia sp</i>	1 +	99860	<i>Lampsilis radiata luteola</i>	+
23909	<i>Boyeria vinosa</i>	+			
24900	<i>Gomphus sp</i>	+	No. Quantitative Taxa: 25 Total Taxa: 64		
43300	<i>Ranatra sp</i>	+	No. Qualitative Taxa: 54 ICI: 46		
45100	<i>Palmacorixa sp</i>	+	Number of Organisms: 2033 Qual EPT: 14		
47600	<i>Sialis sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	314 +			
52430	<i>Ceratopsyche morosa group</i>	13			
57400	<i>Neophylax sp</i>	+			
58505	<i>Helicopsyche borealis</i>	3 +			
59300	<i>Mystacides sp</i>	+			
59410	<i>Nectopsyche diarina</i>	+			
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68025	<i>Ectopria sp</i>	+			
68075	<i>Psephenus herricki</i>	1 +			
68601	<i>Ancyronyx variegata</i>	9			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	4			
69400	<i>Stenelmis sp</i>	70 +			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	+			
78450	<i>Nilotanypus fimbriatus</i>	76			
78655	<i>Procladius (Holotanypus) sp</i>	+			
80351	<i>Corynoneura n.sp 1</i>	8			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Bokes Creek
adj. St. Rt. 31

Collection Date: 08/18/2010 River Code: 02-138 RM: 20.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	8 +	No. Quantitative Taxa: 23		Total Taxa: 42
06201	<i>Hyaella azteca</i>	+	No. Qualitative Taxa: 29		ICI: 38
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	Number of Organisms: 1479		Qual EPT: 7
08601	<i>Hydrachnidia</i>	+			
11020	<i>Acerpenna pygmaea</i>	106 +			
11120	<i>Baetis flavistriga</i>	10			
11130	<i>Baetis intercalaris</i>	664 +			
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+			
13000	<i>Leucrocuta sp</i>	1 +			
13400	<i>Stenacron sp</i>	48 +			
13521	<i>Stenonema femoratum</i>	25			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	1 +			
24107	<i>Nasiaeschna pentacantha</i>	+			
43300	<i>Ranatra sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	314 +			
59970	<i>Petrophila sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	2			
69400	<i>Stenelmis sp</i>	14 +			
74501	<i>Ceratopogonidae</i>	+			
78450	<i>Nilotanyus fimbriatus</i>	20			
80370	<i>Corynoneura lobata</i>	24			
80420	<i>Cricotopus (C.) bicinctus</i>	3			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	3			
82141	<i>Thienemanniella xena</i>	12			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	147 +			
84460	<i>Polypedilum (P.) fallax group</i>	8			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
85615	<i>Rheotanytarsus pellucidus</i>	3			
85625	<i>Rheotanytarsus sp</i>	49			
85720	<i>Stempellinella fimbriata</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	3			
86100	<i>Chrysops sp</i>	+			
93900	<i>Elimia sp</i>	9 +			
95100	<i>Physella sp</i>	+			
96900	<i>Ferrissia sp</i>	5			
98600	<i>Sphaerium sp</i>	+			

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Bokes Creek
Taylor-Claiborne Rd.

Collection Date: 08/18/2010 River Code: 02-138 RM: 14.73

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01320	<i>Hydra sp</i>	12	84470	<i>Polypedilum (P.) illinoense</i>	+
01801	<i>Turbellaria</i>	5 +	84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+
03600	<i>Oligochaeta</i>	+	84750	<i>Stictochironomus sp</i>	+
04964	<i>Mooreobdella microstoma</i>	+	84800	<i>Tribelos jucundum</i>	+
08250	<i>Orconectes (Procericambarus) rusticus</i>	+	85625	<i>Rheotanytarsus sp</i>	49
11020	<i>Acerpenna pygmaea</i>	371	85720	<i>Stempellinella fimbriata</i>	4
11120	<i>Baetis flavistriga</i>	24 +	85800	<i>Tanytarsus sp</i>	+
11130	<i>Baetis intercalaris</i>	103 +	85821	<i>Tanytarsus glabrescens group sp 7</i>	13
11200	<i>Callibaetis sp</i>	+	93900	<i>Elimia sp</i>	1 +
11651	<i>Procloeon sp (w/o hindwing pads)</i>	+	95100	<i>Physella sp</i>	+
13000	<i>Leucrocota sp</i>	4 +	96900	<i>Ferrissia sp</i>	1 +
13400	<i>Stenacron sp</i>	64 +	98600	<i>Sphaerium sp</i>	+
13521	<i>Stenonema femoratum</i>	3 +			
13561	<i>Maccaffertium pulchellum</i>	3	No. Quantitative Taxa: 24		Total Taxa: 56
17200	<i>Caenis sp</i>	+	No. Qualitative Taxa: 44		ICI: 38
21200	<i>Calopteryx sp</i>	+	Number of Organisms: 1170		Qual EPT: 13
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
43300	<i>Ranatra sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	78 +			
52430	<i>Ceratopsyche morosa group</i>	2 +			
58505	<i>Helicopsyche borealis</i>	+			
59970	<i>Petrophila sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68075	<i>Psephenus herricki</i>	+			
68201	<i>Scirtidae</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	3			
69400	<i>Stenelmis sp</i>	1 +			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
77120	<i>Ablabesmyia mallochi</i>	+			
77500	<i>Conchapelopia sp</i>	9			
78450	<i>Nilotanytus fimbriatus</i>	27			
78655	<i>Procladius (Holotanytus) sp</i>	+			
80370	<i>Corynoneura lobata</i>	44			
82141	<i>Thienemanniella xena</i>	4			
82730	<i>Chironomus (C.) decorus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	341 +			
84460	<i>Polypedilum (P.) fallax group</i>	4			

**Ohio EPA/DSW Ecological Assessment Section
Macrobenthic Collection**

Site: Powderlick Run
St. Rt. 739

Collection Date: 07/02/2010 River Code: 02-144 RM: 3.40

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03600	<i>Oligochaeta</i>	+			
04666	<i>Helobdella triserialis</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
04960	<i>Mooreobdella sp</i>	+			
08200	<i>Orconectes sp</i>	+			
08601	<i>Hydrachnidia</i>	+			
11200	<i>Callibaetis sp</i>	+			
17200	<i>Caenis sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
23600	<i>Aeshna sp</i>	+			
45300	<i>Sigara sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
60900	<i>Peltodytes sp</i>	+			
68201	<i>Scirtidae</i>	+			
69400	<i>Stenelmis sp</i>	+			
71900	<i>Tipula sp</i>	+			
72700	<i>Anopheles sp</i>	+			
72900	<i>Culex sp</i>	+			
74501	<i>Ceratopogonidae</i>	+			
78702	<i>Psectrotanytus dyari</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
82800	<i>Cladopelma sp</i>	+			
83002	<i>Dicrotendipes modestus</i>	+			
84315	<i>Phaenopsectra flavipes</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84520	<i>Polypedilum (Tripodura) halterale group</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
87601	<i>Dolichopodidae</i>	+			
94400	<i>Fossaria sp</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 30
 No. Qualitative Taxa: 30 ICI:
 Number of Organisms: 0 Qual EPT: 3

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Powderlick Run
dst Powderlick Run Rd.

Collection Date: 07/02/2010 River Code: 02-144 RM: 1.20

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03360	<i>Plumatella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
08200	<i>Orconectes sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
45300	<i>Sigara sp</i>	+			
65800	<i>Berosus sp</i>	+			
67700	<i>Paracymus sp</i>	+			
74100	<i>Simulium sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
95100	<i>Physella sp</i>	+			
96002	<i>Helisoma anceps anceps</i>	+			
96264	<i>Planorbella (Pierosoma) pilsbryi</i>	+			
96280	<i>Planorbella (Pierosoma) trivolvis</i>	+			
98200	<i>Pisidium sp</i>	+			
98600	<i>Sphaerium sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 18
No. Qualitative Taxa: 18	ICI:
Number of Organisms: 0	Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Kian Run
Castle Rd.

Collection Date: 08/09/2010 River Code: 02-197 RM: 0.45

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
05800	<i>Caecidotea sp</i>	+			
06700	<i>Crangonyx sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
23600	<i>Aeshna sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77750	<i>Hayesomyia senata or Thienemannimyia norena</i>	+			
78655	<i>Procladius (Holotanypus) sp</i>	+			
79400	<i>Zavreliomyia sp</i>	+			
82730	<i>Chironomus (C.) decorus group</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 13
No. Qualitative Taxa: 13	ICI:
Number of Organisms: 0	Qual EPT: 0

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Republican Run
Buckeye Parkway, at park

Collection Date: 08/10/2010 River Code: 02-243 RM: 1.38

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03040	<i>Fredericella sp</i>	+			
03600	<i>Oligochaeta</i>	+			
04662	<i>Helobdella fusca</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
06700	<i>Crangonyx sp</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11200	<i>Callibaetis sp</i>	+			
21200	<i>Calopteryx sp</i>	+			
22001	<i>Coenagrionidae</i>	+			
22300	<i>Argia sp</i>	+			
23600	<i>Aeshna sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
60900	<i>Peltodytes sp</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
74100	<i>Simulium sp</i>	+			
81690	<i>Paratrichocladius sp</i>	+			
82820	<i>Cryptochironomus sp</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84470	<i>Polypedilum (P.) illinoense</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84700	<i>Stenochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85821	<i>Tanytarsus glabrescens group sp 7</i>	+			
95100	<i>Physella sp</i>	+			

No. Quantitative Taxa: 0 Total Taxa: 27
 No. Qualitative Taxa: 27 ICI:
 Number of Organisms: 0 Qual EPT: 4

**Ohio EPA/DSW Ecological Assessment Section
Macroinvertebrate Collection**

Site: Trabue Run
McKinley Ave.

Collection Date: 08/09/2010 River Code: 02-266 RM: 0.28

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
01801	<i>Turbellaria</i>	+			
03600	<i>Oligochaeta</i>	+			
04935	<i>Erpobdella punctata punctata</i>	+			
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13521	<i>Stenonema femoratum</i>	+			
21200	<i>Calopteryx sp</i>	+			
22300	<i>Argia sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
69400	<i>Stenelmis sp</i>	+			
70600	<i>Antocha sp</i>	+			
74100	<i>Simulium sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
80204	<i>Brillia flavifrons group</i>	+			
81825	<i>Rheocricotopus (Psilocricotopus) robacki</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84450	<i>Polypedilum (Uresipedilum) flavum</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85500	<i>Paratanytarsus sp</i>	+			
85800	<i>Tanytarsus sp</i>	+			
95100	<i>Physella sp</i>	+			
97601	<i>Corbicula fluminea</i>	+			

No. Quantitative Taxa: 0	Total Taxa: 25
No. Qualitative Taxa: 25	ICI:
Number of Organisms: 0	Qual EPT: 5

Ohio EPA/DSW Ecological Assessment Section
 Macroinvertebrate Collection

Site: Peters Run
 St. Rt. 762

Collection Date: 07/08/2010 River Code: 02-368 RM: 1.75

Taxa Code	Taxa	Quant/Qual	Taxa Code	Taxa	Quant/Qual
03000	<i>Ectoprocta</i>	+	96900	<i>Ferrissia sp</i>	+
03600	<i>Oligochaeta</i>	+	98600	<i>Sphaerium sp</i>	+
04615	<i>Actinobdella inequiannulata</i>	+			
04685	<i>Placobdella ornata</i>	+	No. Quantitative Taxa: 0		Total Taxa: 46
08200	<i>Orconectes sp</i>	+	No. Qualitative Taxa: 46		ICI:
08601	<i>Hydrachnidia</i>	+	Number of Organisms: 0		Qual EPT: 13
11120	<i>Baetis flavistriga</i>	+			
11130	<i>Baetis intercalaris</i>	+			
13400	<i>Stenacron sp</i>	+			
13521	<i>Stenonema femoratum</i>	+			
17200	<i>Caenis sp</i>	+			
22300	<i>Argia sp</i>	+			
23909	<i>Boyeria vinosa</i>	+			
43300	<i>Ranatra sp</i>	+			
45100	<i>Palmacorixa sp</i>	+			
50315	<i>Chimarra obscura</i>	+			
51600	<i>Polycentropus sp</i>	+			
52200	<i>Cheumatopsyche sp</i>	+			
52430	<i>Ceratopsyche morosa group</i>	+			
52530	<i>Hydropsyche depravata group</i>	+			
57900	<i>Pycnopsyche sp</i>	+			
58505	<i>Helicopsyche borealis</i>	+			
59300	<i>Mystacides sp</i>	+			
60400	<i>Gyrinus sp</i>	+			
67800	<i>Tropisternus sp</i>	+			
68130	<i>Helichus sp</i>	+			
68601	<i>Ancyronyx variegata</i>	+			
68708	<i>Dubiraphia vittata group</i>	+			
68901	<i>Macronychus glabratus</i>	+			
69400	<i>Stenelmis sp</i>	+			
71100	<i>Hexatoma sp</i>	+			
72340	<i>Dixella sp</i>	+			
72700	<i>Anopheles sp</i>	+			
74100	<i>Simulium sp</i>	+			
77500	<i>Conchapelopia sp</i>	+			
77800	<i>Helopelopia sp</i>	+			
78401	<i>Natarsia species A (sensu Roback, 1978)</i>	+			
83820	<i>Microtendipes "caelum" (sensu Simpson & Bode, 1980)</i>	+			
83840	<i>Microtendipes pedellus group</i>	+			
84210	<i>Paratendipes albimanus or P. duplicatus</i>	+			
84540	<i>Polypedilum (Tripodura) scalaenum group</i>	+			
84750	<i>Stictochironomus sp</i>	+			
85230	<i>Cladotanytarsus mancus group</i>	+			
95100	<i>Physella sp</i>	+	221		