

**A STUDY OF THE
BENTHIC MACROINVERTEBRATE COMMUNITY
IN SELECTED CHICAGO METROPOLITAN AREA
WATERWAYS 2006 - 2008**

Prepared for:

Metropolitan Water Reclamation District of Greater Chicago
Research and Development Department

Prepared by:

EA Engineering, Science, and Technology, Inc.
444 Lake Cook Road, Suite 18
Deerfield, IL 60015

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1. INTRODUCTION

The Upper Illinois River watershed consists of several natural, constructed, and altered waterways and their tributaries. The major waterways of the Chicago Metropolitan Area within the Upper Illinois River watershed include, in part, the Calumet River, Calumet-Sag Channel, North Branch of the Chicago River, South Branch of the Chicago River, Chicago Sanitary and Ship Canal, and Des Plaines River. Through their comprehensive ambient water quality monitoring program (AWQM), the Metropolitan Water Reclamation District of Greater Chicago (District) has collected a substantial amount of physicochemical and biological data describing the condition of these waterways since 1972. These data provide the Illinois Environmental Protection Agency (IEPA) with current information to assess the quality of the waterways within the District's service area as well as offering the unique opportunity to examine trends via the District's long-term database.

In an effort to support and strengthen their AWQM program, the District has implemented an ancillary monitoring program to evaluate the biological resources, sediment quality, and habitat condition on waterways within their service area. As part of this initiative, a benthic macroinvertebrate sampling program began in 2001 to collect samples at established stations in five watersheds: North Branch Chicago River, South Branch Chicago River and Chicago Sanitary and Ship Canal, Calumet River, Fox River, and Des Plaines River. Each of these watersheds will be sampled on a four-year rotation. In addition to the target watersheds, a core group of stations throughout the District's service area will be evaluated annually. The first four year cycle was completed in 2004 (EA 2006) and a new cycle began in 2005 (EA 2007). In addition to the scheduled AWQM stations, during 2006-2008, Stations SC1 and SC3 on Salt Creek were sampled as part of a special study. This report presents the study design and benthic macroinvertebrate data for the 2006-2008 program years, which completes the second four-year study cycle.

2. METHODS

For the 2006-2008 program years, benthic macroinvertebrates were monitored at 48 stations in the Chicago Metropolitan Area waterways. Of these stations, 16 were sampled during all three years and one station was sampled in both 2006 and 2007. During 2006, benthic macroinvertebrates were monitored at 24 stations in the Calumet River, Little Calumet River, Calumet-Sag Channel, North Shore Channel, North Branch of the Chicago River (NBCR), Chicago River, South Branch of the Chicago River (SBCR), South Fork of the South Branch of the Chicago River (colloquially known as 'Bubbly Creek'), Chicago Sanitary and Ship Canal (CSSC), West Branch of the Du Page River, Salt Creek, Higgins Creek, and Des Plaines River (Table 2-1). In 2007, benthic macroinvertebrate samples were collected at 27 stations in the Calumet River, Wolf Lake Drainage Channel, Grand Calumet River, Thorn Creek, Little Calumet River, Calumet-Sag Channel, North Shore Channel, North Branch of the Chicago River, Chicago Sanitary and Ship Canal, West Branch of the DuPage River, Salt Creek, Higgins Creek, and Des Plaines River (Table 2-2). During 2008, benthic macroinvertebrates were monitored at 30 stations in the Calumet River, Little Calumet River, Calumet-Sag Channel, North Shore Channel, North Branch of the Chicago River, Chicago Sanitary and Ship Canal, Poplar Creek, West Branch of the Du Page River, Buffalo Creek, Salt Creek, Higgins Creek, and Des Plaines River (Table 2-3). In addition to the scheduled AWQM stations, during 2006-2008, Stations SC1 and SC3 on Salt Creek were sampled as part of a special study. Figure 2-1 presents the benthic macroinvertebrate sampling locations for the District's ambient water quality program.

Field sampling was conducted by District personnel using a combination of Hester-Dendy (HD) artificial substrates and Ponar grabs. Each HD sampler consisted of nine, three-inch square plates with uniform spacing. The total surface area of one HD sampler, excluding the bolt and spacers was 0.031 m². At each location, a group of three HD samplers (sampler array) were deployed near shore in the littoral zone and an additional group of three samplers was deployed mid-channel of the waterway. Each HD sampler array was constructed of a 10-16" length of 2" diameter transparent, schedule 80 PVC pipe secured to the top of an 18 pound river anchor by placing a 1/4" stainless steel bolt through the anchor eye and two holes drilled in the pipe (Figure 2-2). Three-inch stainless steel eyebolts are located radially, approximately 120 degrees apart, through holes drilled one-inch from the top of the PVC pipe. The HD arrays were suspended from the eyebolts approximately 12-18" off the bottom using nylon cable ties. One cable was used to anchor both arrays to a structure on shore.

The two HD sampler arrays at each station were retrieved by using the shore-attachment cable to lift the samplers into a custom-made dipnet with an attached plankton bucket. The mesh size of both the dipnet and plankton bucket was Standard Testing No. 60 (250 μ) mesh (Figure 2-3). The cable tie connecting each H-D sampler to the anchoring system was cut and each sampler was placed, fully assembled into a one-gallon plastic sample pail. The dipnet was thoroughly rinsed with river water and contents of the plankton bucket were transferred to the sample pail. The contents of each sample pail were fixed with approximately 5% formalin before the lid was attached. Retrieval dates for the HD samples in each watershed were as follows:

Watershed	Retrieved		
	2006	2007	2008
Calumet	29 June – 2 Aug.	5 June – 12 June	6 Aug. – 7 Aug.
NBCR	10 July – 18 July	21 May – 30 May	29 July – 8 Aug.
SBCR and CSSC	25 July – 28 Aug.	25 May – 31 May	30 July – 31 July
Fox River	–	–	30 June
Des Plaines River	13 June – 13 July	8 May – 21 May	24 June – 13 Aug.

In 2007, HD samples were collected at 26 of the 27 stations while HD samples were retrieved at all stations in 2006 and 2008.

Ponar grab samples were collected at each station in conjunction with the HD retrieval. The grab samples were collected using a 6" X 6" Petite-Ponar sampler. As with the HD sampling, Ponar samples were collected from two areas at each station; one from a near shore area and one from mid-channel. Each Ponar sample consisted of three grabs. All Ponar samples were collected within 30 to 50 feet of the HD samplers. All three grabs for each sample were combined in the field and washed in a No. 60 (250 μ) mesh sieving bucket to remove most of the fine sediment. The sample was then transferred to a one-gallon bottle and preserved with 5% formalin. Ponar samples were collected from all locations during each of the three years.

In the laboratory, each sample was processed by first pouring the contents of the sample bottle into a No. 60 mesh sieve where it could be rinsed. Under a stream of water, the individual HD plates and hardware were scrubbed with a 2-inch paintbrush into the sieve. The sample was then rinsed from the sieve into a white plastic tray partially filled with water. Sample aliquots were removed from the tray and placed in a small petri dish for counting under a dissecting microscope with 15X to 40X magnification. Following counting, the samples were preserved with 70% isopropanol solution. These samples were delivered to EA Engineering, Science, and Technology, Inc. (EA) in Deerfield, Illinois for further processing and taxonomic identification.

Upon arrival at EA's laboratory, the samples were logged in. Except for Oligochaeta, macroinvertebrate identifications were made to the lowest practical taxonomic level using the most current literature available (see Section 5). If necessary, Chironomidae larvae were subsampled by placing them in a grided petri dish. Squares were randomly chosen until at least 100 larvae were removed. Chironomid larvae were then cleared in 10% potassium hydroxide and permanently mounted in CMC-10. All specimens were identified, enumerated, and coded on EA's standard laboratory bench sheet for data processing.

Each slide-mounted chironomid specimen was examined for a variety of head capsule deformities. The use of chironomid head capsule deformities as indicators of benthic community quality has become widely accepted throughout the world (Burt et al. 2003, Canfield et al. 1996, De Pauw and Heylen 2001, Jeyasingham and Ling 2000, Lenat 1993). However, factors such as seasonal, temporal, and climatic variability, as well as limited baseline information and poorly

understood relationships with a variety of contaminants may complicate the interpretation of deformity results (Servia et al. 2000, Servia et al. 2004, Burt et al 2003). Nonetheless, the relationship between increasing levels of environmental perturbation and incidence of chironomid deformities has been thoroughly documented. Recent studies have linked several agents found in industrial and domestic waste to midge deformities. These include endocrine disruptors (e.g., detergents; Kwak and Lee 2005, Vazquez-Duhalt et al. 2005, Vermeulen et al. 2000), heavy metals (e.g., Cu, Hg, Pb, Zn; Janssens de Bisthoven and Ollevier 1998, Janssens de Bisthoven et al. 1998, Martinez et al. 2004, Swansburg et al. 2002), polynuclear aromatic hydrocarbons (e.g., coal tar; Dickman et al. 1992, Hudson and Ciborowski 1996a), organochlorine compounds (e.g., pesticides; Hudson and Ciborowski 1996b) and radionuclides (e.g., radium and uranium refining; Warwick et al. 1987). In addition, as more studies are conducted under a variety of conditions in different regions, reasonable expectations of what constitutes baseline conditions will become more established. Therefore, chironomid deformity analysis is likely to become an even more integral tool of bioassessment over time.

For Orthoclaadiinae, Chironomini, and Tanytarsini specimens, the structures examined for deformities included the mentum, mandibles, premandibles, and pecten epipharyngis (Sæther 1980). Tanytopodinae structures included the ligula, dorsomentum, mandibles, paraligula, and pecten hypopharyngis (Sæther 1980). Guidance as to what constituted a deformity as well as descriptions of deformities for the structures and taxa listed above was derived from a variety of sources, most notably Bird (1994), Dermott (1991), Dickman et al. (1992), Groenendijk et al. (1998), Hudson and Ciborowski (1996b), MacDonald and Taylor (2006), Nazarova et al. (2004), Warwick (1985 and 1991), Warwick and Tisdale (1988), and Warwick et al. (1987). A conservative approach was used to distinguish deformities or malformations from broken or severely worn larval structures. In general, deformities and malformations were easily distinguished from worn or damaged structures for the specimens examined during this study. However, if any suspicion existed as to the cause of an irregular structure, that irregularity was not counted as a deformity.

Whenever possible, for the waterways with multiple sampling stations, comparisons were made longitudinally among monitoring stations. Temporal comparisons also were made for those stations that were sampled during two or more years. Metrics compared included density, relative abundance (percent), total taxa richness, number of Ephemeroptera+Plecoptera+Trichoptera (EPT) taxa, dominant taxa composition, and percent Chironomidae head capsule deformities. In some instances, notable differences in the benthic macroinvertebrate community were observed among the stations. These differences could be the result of differences in water or sediment quality related to point and non-point sources, differences in habitat quality, or natural variability within the benthic community. However, since the causative factors were unclear, the differences were described in varying degrees of “stress”, which is intended to encompass all potential impact types. For the purpose of summarizing and discussing the results, the center and near shore samples were combined for each site by sample type. However, the center and near shore data are presented separately for each station and sample type in Appendices A, B, and C.

RESULTS AND DISCUSSION

3.1 2006 Benthic Macroinvertebrate Results

During 2006, 48 HD samples and 47 Ponar samples were collected from 24 stations in 13 different waterways (Table 2-1). Combined, these samples yielded 110 total taxa and 17 EPT taxa (Table 3-1). Chironomidae was the most taxa rich group with 54 taxa followed by Trichoptera and Ephemeroptera with 10 and 7 taxa, respectively. The taxa that are underlined in Table 3-1 represent those that are considered highly tolerant of pollution caused stressors. For the purposes of this study, several literature sources were considered to determine the tolerance of any particular taxon including Barbour et al. (1999), Illinois Environmental Protection Agency (IEPA) (1987), Ohio Environmental Protection Agency (OEPA) (1988), and Simpson and Bode (1980). Taxa were regarded as highly tolerant if they were listed as such in the literature and/or their assigned tolerance values from various regions in the U.S. averaged eight or greater on a zero to ten or eleven scale with ten/eleven being the most tolerant.

3.1.1 Calumet Watershed

Three stations were sampled in the Calumet watershed during 2006: one station in the Calumet River, one station in the Little Calumet River (LCR), and one station in the Calumet-Sag Channel (Cal-Sag) (Table 2-1).

Overall, the HD samples from the Calumet watershed were dominated by quagga mussel (*Dreissena bugensis*), *Hydra*, or *Dicrotendipes* spp. midges. In contrast, all of the Ponar samples were dominated by Oligochaeta. Although chironomid deformities were restricted to a single station and sample type, the benthic community in the Calumet watershed largely consisted of tolerant taxa regardless of sample type.

3.1.1.1 Calumet River

Combined, the HD and Ponar samples from the single station in the Calumet River (Station 55) yielded 21 total taxa and no EPT (Tables 3-2 and 3-3). Fourteen total taxa were observed in the HD samples while 12 total taxa were present in the Ponar samples. Total density in the HD samples was similar between sample types (Tables 3-2 and 3-3). Quagga mussel was the most dominant HD taxon, representing nearly 75 percent of the total density. Although introduced to the Great Lakes in 1993 (Nalepa et al. 2001) it has more recently colonized Lake Michigan. By the 2006 sampling event, quagga mussel had largely replaced zebra mussels (*Dreissena polymorpha*), which had been the dominant species at Station 55 in previous years (EA 2004, EA 2006, and EA 2007). Other common taxa observed in the HD samples included Oligochaeta, *Gammarus*, and the newly introduced exotic side swimmer *Echinogammarus ischusa*. Like quagga mussel, *Echinogammarus* has rapidly increased in abundance since first being introduced to the Great Lakes around 1995 (Nalepa et al. 2001). In contrast to the HD samples, Oligochaeta was the dominant taxon by percent in the Ponars (Table 3-3). However, quagga mussel was also abundant in the Ponar samples.

No Chironomidae head capsule deformities were observed in either the HD or Ponar samples. Based on the relatively low taxa richness in both sample types, numerical dominance by relatively few taxa, the fact that tolerant taxa composed more than 50 percent of the total density in the Ponars (Table 3-1), and tolerant taxa composed a third of the total richness for sample types combined, it reasonable to characterize the benthic community at Station 55 in the Calumet River as moderately to highly stressed.

3.1.1.2 Little Calumet River (LCR)

The HD and Ponar samples from the single station in the LCR (Station 76) yielded 26 total taxa and two EPT taxa (Tables 3-4 and 3-5). Total taxa richness in the HD samples was similar compared to the Ponars with 20 and 18 taxa being collected, respectively. The EPT taxa *Cyrmellus fraternus* and *Cheumatopsyche* were observed only in the HD samples. Unlike the Calumet River, quagga mussel was not nearly as abundant at Station 76. Although *Hydra* was the dominant taxon in the HD samples, Oligochaeta and two tolerant species of *Dicrotendipes* were also relatively abundant. In contrast, Oligochaeta was clearly the dominant taxon in the Ponars. In addition, the tolerant taxon *Dicrotendipes simpsoni* (Table 3-1) also was common in both sample types. Primarily due to the abundance of Oligochaeta, Ponar total density was over four times higher than the total HD density.

Chironomid head capsule deformities were observed only in the Ponar samples at Station 76 (Table 3-6). Of the 112 midge specimens examined from the Station 76 Ponar samples, eight or 7.1 percent exhibited deformities. These malformed specimens represented the only deformities observed in the Calumet watershed but were the second highest by number of affected specimens among all stations in 2006. The three taxa exhibiting deformities were *Dicrotendipes lucifer*, *Dicrotendipes simpsoni*, and *Procladius*. Several studies involving chironomid deformity analysis have included *Procladius* (Burt et al. 2003, Dermott 1991, Diggins and Stewart 1998, Madden et al. 1992, Warwick and Tisdale 1988, Warwick 1991, and Warwick 1992, among others). Despite the somewhat small sample size, approximately 14 percent of the 42 *Procladius* examined from Station 76 were deformed whereas only one individual of each *D. lucifer* and *D. simpsoni* were affected.

Although many researches advocate the need for 100 specimens or more of a particular target taxon in order to define statistical significance with deformity analysis (Hudson and Ciborowski 1996a), Lenat (1993) found that a minimum of 15 specimens was adequate for his analysis of *Chironomus* deformities in impacted and unimpacted streams of North Carolina. In the Great Lakes, three to five percent incidence of deformities has been considered representative of background conditions for susceptible taxa (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003) while two percent is representative of background in the Great Lakes for all taxa combined (Burt et al. 2003). As such, the 14 percent incidence of deformity for *Procladius* and seven percent of all chironomids examined in the Ponar samples from Station 76 is substantially higher than published background levels for *Procladius* in the Great Lakes.

Given that the samples were dominated by relatively few taxa, almost half of the taxa represented in the HD and Ponar samples combined are considered highly tolerant (Table 3-1), the numerical and relative abundance of highly tolerant taxa, and the high incidence of

chironomid deformities compared to published background levels for the Great Lakes, these results indicate that the Station 76 benthic assemblage is moderately to highly stressed.

3.1.1.3 Calumet-Sag Channel (Cal-Sag)

Together, the HD and Ponar samples from the single station (Station 59) in the Cal-Sag combined to yield 23 total taxa and one EPT taxon (Tables 3-7 and 3-8). All but two of the total taxa and the single EPT taxon were observed in the HD samples compared to eight total taxa and no EPT taxa in the Ponar samples. The assemblages in both the HD and Ponar samples were dominated by highly tolerant taxa (Table 3-1). In the HD samples, *Dicrotendipes lucifer* was the dominant taxon while *D. simpsoni* and *Oligochaeta* were also abundant. As with other stations in the Calumet River watershed, *Oligochaeta* was the most abundant taxon in the Ponar samples and was responsible for the Ponar total density being substantially higher than the HD total density.

Like the Calumet River station, no Chironomidae head capsule deformities were observed in either the HD or Ponar samples. However, the number of tolerant taxa (Table 3-1) in both sample types together with the high density of highly tolerant taxa suggests that the benthic community at Station 59 in the Cal-Sag is moderately to highly stressed.

3.1.2 North Branch Chicago River Watershed

Sampling was conducted at three stations in the North Branch Chicago River (NBCR) watershed during 2006: one station in the North Shore Channel (NSC) and two stations in the NBCR (Table 2-1).

Numerical dominance in the 2006 HD samples varied by station, however, *Oligochaeta* was the dominant taxon in the Ponar samples at all three stations in 2006. Although the number of deformed chironomid specimens was fairly low, head capsule deformities were observed in the HD and/or Ponar samples from all three stations in the watershed during 2006.

3.1.2.1 North Shore Channel (NSC)

The HD and Ponar samples from the single station in the NSC (Station 36) yielded 20 total taxa combined (Tables 3-9 and 3-10). No EPT taxa were observed at Station 36 in 2006. All 20 total taxa were observed in the HD samples compared to eight total taxa in the Ponars. *Oligochaeta* was the dominant taxon in both the HD and Ponar samples. Total density in the Ponar samples was considerably higher than in the HD samples exclusively due to the abundance of *Oligochaeta*, which composed nearly 99 percent of the total density in the Ponar samples compared to less than 50 percent in the HDs.

A single *Chironomus* specimen representing 10 percent of all chironomids exhibited a head capsule deformity in the Ponar samples from Station 36 (Table 3-6). Given the small sample size, it is problematic to speculate as to what this level of incidence represents. However, nearly half of the total taxa collected in the HD samples and more than half of the taxa observed in the Ponars were highly tolerant taxa (Table 3-1). In addition, based on density, tolerant taxa were

the major component of the HD and Ponar benthos. As such, it appears the benthic community at Station 36 in the NSC is moderately to highly stressed.

3.1.2.2 North Branch of the Chicago River (NBCR)

The combined number of taxa collected in the HD and Ponar samples from the two NBCR stations (Stations 96 and 46) was 44 total taxa and six EPT taxa (Tables 3-11 and 3-12). HD total taxa richness was noticeably higher at the upstream Station 96 (33 taxa) compared to the 20 taxa observed at Station 46 (Table 3-11). In addition, all six EPT taxa observed in the NBCR were collected at Station 96, which is in the shallow portion of the NBCR. *Gammarus* and *Cheumatopsyche* were the most abundant taxa at Station 96 representing 29 and 20 percent of the total density. In contrast, the highly tolerant taxon *Oligochaeta* clearly was the dominant taxon at Station 46 representing 77 percent of the total density. Due to the higher abundance of *Oligochaeta*, total density was over three times higher at Station 46 compared to Station 96.

Like the HD samples, Ponar total taxa richness was considerably higher at Station 96 compared to Station 46 with 20 and six total taxa, respectively (Table 3-12). Two EPT taxa were collected in the Ponar samples but only at Station 96. *Oligochaeta* was the dominant taxon at both stations but composed over 97 percent of the total benthos at Station 46. The relationship between the two stations for Ponar total density was nearly identical to that of the HD samples with density being nearly three times higher downstream at Station 46 largely due to the abundance of *Oligochaeta* at that station.

Chironomid head capsule deformities were observed in the Ponar samples at Station 96 (Table 3-13) and in both the Ponar and HD samples at Station 46 (Tables 3-6 and 3-13). Incidence and sample size were fairly low in the Ponar samples at both stations (Table 3-6). In contrast 102 midge specimens were examined from the Station 46 HDs with 2.9 percent exhibiting deformities. Based on other studies in the Great Lakes, this level of incidence is likely within the range of background conditions (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003).

Overall, based on the higher taxa richness and presence of EPT taxa at Station 96, in contrast to the relatively high density of tolerant taxa (Table 3-1) at Station 46, it appears the benthic community at Station 46 is considerably more stressed than at Station 96.

3.1.3 South Branch Chicago River and Chicago Sanitary and Ship Canal Watershed

Benthic macroinvertebrate sampling was conducted at 10 stations within the South Branch of the Chicago River (SBCR) and Chicago Sanitary and Ship Canal (CSSC) watershed: two stations in the Chicago River, two stations in the SBCR, one station in the South Fork of the South Branch of the Chicago River (SFSBCR), and five stations in the CSSC (Table 2-1).

Tolerant taxa were dominant at eight of the 10 HD sampling stations and all 10 Ponar sampling stations in the SBCR and CSSC watershed during 2006. In all but one of these instances, the tolerant taxon was *Oligochaeta*. The incidence of chironomid head capsule deformities was

generally low at the majority of the stations within the watershed but somewhat elevated at two HD and two Ponar sampling stations.

3.1.3.1 Chicago River

Together, the HD and Ponar samples from the two Chicago River stations (Stations 74 and 100) yielded 41 total taxa and one EPT taxon (Tables 3-14 and 3-15). HD total taxa richness was similar at both stations with 30 total taxa at Station 74 and 26 total taxa at Station 100 (Table 3-14). The caddisfly *Hydroptila* was the only EPT taxon collected and was found at both stations. Likewise, total density was similar between stations but was driven by two vastly different taxa with nearly equal density. Quagga mussel was the dominant taxon at Station 74 with 83 percent of the total density while Oligochaeta was the dominant taxon at Station 100 with nearly 74 percent of the total density.

Ponar total taxa richness was relatively low at both stations with seven and four taxa at Stations 74 and 100, respectively (Table 3-15). No EPT taxa were collected in the Ponars from either station. Oligochaeta was the dominant taxon in the Chicago River Ponar samples representing over 90 percent of the total density at both stations. However, Oligochaeta was noticeably more abundant at Station 74, which resulted in an overall higher total density compared to Station 100.

Chironomid head capsule deformities were observed at Station 74 in the Ponar samples (Table 3-6) and at both stations in the HD samples (Table 3-13). A single deformed specimen of *Chironomus* was observed in the Station 74 Ponar samples. Similarly, a single specimen of two *Dicrotendipes* species exhibited deformities in the Station 74 HDs whereas a single deformed specimen of *Parachironomus* was observed in the HD samples from Station 100. The percentages of deformed specimens observed at both stations are misleading since the taxa exhibiting deformities were present in fairly low numbers (two to 10 specimens). With the small sample sizes, it is problematic to speculate as to what these levels of incidence represent.

Based on the slightly lower taxa richness in both the HD and Ponar samples as well as the higher relative abundance of tolerant taxa in the HD samples (Table 3-1), it appears the benthic community at the downstream Station 100 is more stressed compared to the community observed at Station 74.

3.1.3.2 South Branch of the Chicago River (SBCR)

The HD and Ponar samples from the two SBCR stations (Stations 39 and 108) yielded 26 combined total taxa and one EPT taxon (Tables 3-16 and 3-17). HD total taxa richness was similar between the two stations with 21 taxa at Station 39 and 15 taxa at Station 108 (Table 3-16). The single EPT taxon, *Cyrenellus fraternus* was observed only in the Station 108 HD samples but was among the top five most abundant taxa. The dominant taxon at both stations was Oligochaeta; however, this tolerant taxon was nearly an order of magnitude more abundant at Station 39 compared to Station 108. This difference resulted in the Station 39 total density being more than four times greater than total density at Station 108.

In contrast to the HD results, Ponar total taxa richness was higher at Station 108 with eight taxa compared to Station 39 with two taxa (Table 3-17). No EPT taxa were observed at either station. Although Oligochaeta was clearly the dominant taxon at both stations and attained similar densities, total density was somewhat higher at Station 108 due to the abundance of several taxa at that station.

Chironomid head capsule deformities were observed in both sample types at Station 108 but only in the HD samples at Station 39 (Tables 3-6 and 3-13). At Station 39, sample size and incidence of deformities were both low in the HD samples (Table 3-13). However, at Station 108 incidence was somewhat higher with five *Dicrotendipes simpsoni* exhibiting deformities collectively in the HDs and Ponars.

The benthic community at both stations could be characterized as relatively pollution tolerant based on community composition and relative abundance of tolerant taxa (Table 3-1). Ponar total richness was higher and the only EPT taxon was collected at Station 108 while taxa richness in the Ponars was noticeably lower upstream at Station 39. However, overall, it appears that the benthic community at each station is equally and moderately to highly stressed.

3.1.3.3 South Fork of the South Branch of the Chicago River (SFSBCR)

The benthic macroinvertebrate community in the SFSBCR at Station 99 was represented by nine total taxa in the HD and Ponar samples (Tables 3-47 and 3-48). All nine total taxa were observed in the HD samples. Oligochaeta was the only taxon collected in the Ponars while another tolerant taxon, *Dicrotendipes simpsoni* was dominant in the HDs. No EPT taxa were observed in the SFSBCR samples. Total density was similar between sample types at Station 99.

A single specimen of *Dicrotendipes simpsoni* in the HD samples accounted for the only deformity observed at Station 99 (Table 3-13). With the small sample size, it is problematic to speculate as to what these levels of incidence represent. Nonetheless, based on the relatively low taxa richness, lack of EPT taxa, and the fact that tolerant taxa composed over 80 percent of the total density in HDs and 100 percent in the Ponars (Table 3-1), these data clearly indicate that the benthic community at Station 99 in the SFSBCR is highly stressed.

3.1.3.4 Chicago Sanitary and Ship Canal (CSSC)

During 2006, HD and Ponar samples were collected at five stations in the CSSC (Stations 40, 75, 41, 42, and 92) (Table 2-1). Combined, the HD samples and Ponar samples from the five CSSC stations yielded 34 total taxa and three EPT taxa (Tables 3-20 and 3-21). Among the total taxa observed in the HD samples was the newly discovered mottled fingernail clam, *Eupera cubensis* (Table 3-20). This represents the first recorded occurrence of this species outside of its previously documented range along the southern United States coastal plain into Arkansas, Oklahoma, and Kansas (Sneen et al. 2009).

HD total taxa richness ranged from 12 taxa at Station 40 to 23 taxa at Station 92 (Table 3-20). Total richness was similar among Stations 40, 75, 41, and 42 but noticeably higher at Station 92. EPT richness was represented by one or two taxa at Stations 40, 41, 42, and 92 while none were

observed at Station 75 (Table 3-20). Oligochaeta was the dominant taxon at the four upstream stations. However, *Hydra*, Turbellaria, Oligochaeta, and *Dicrotendipes lucifer* were all fairly abundant at Station 92. Total density was similar among Stations 40, 42, and 92 but was noticeably higher at Stations 75 and 41 due largely to the abundance of Oligochaeta at those two stations.

Ponar total taxa richness was similarly low at all five sampling stations ranging from one taxon at Station 42 to four taxa at Stations 41 and 92 (Table 3-21). Oligochaeta was the dominant taxon at all five stations representing between 94 and 100 percent of the total density. Total density was somewhat low at Station 40, similar among Stations 75, 41, and 42, and substantially higher at Station 92. In all cases, density was solely driven by Oligochaeta abundance.

Chironomid head capsule deformities were observed in both the Ponar and HD samples at Stations 40 and 41 and only in the HD samples at Station 92 (Tables 3-6 and 3-13). At Station 40, incidence was within background levels in both the Ponar and HD samples. Incidence was somewhat higher in the Station 41 Ponar samples with three *Chironomus* specimens exhibiting deformities. However, sample size in the Station 41 Ponars was relatively small. In contrast, the number of deformed specimens observed in the Station 41 and 92 HD samples was among the highest recorded in 2006 with nine and seven deformities representing 6.6 and 3.5 percent of the chironomids examined. The incidence levels observed in the HD samples at Stations 41 and 92 both exceed recorded background levels in the Great Lakes (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003).

In terms of relative abundance and regardless of sample type, highly tolerant taxa dominated the benthic community at all sampling stations in the CSSC (Table 3-1). This combined with the low number of EPT taxa, and elevated incidence of head capsule deformities suggests that the benthic community in the CSSC is moderately to highly stressed.

3.1.4 Des Plaines River Watershed

Eight stations in the Des Plaines River watershed were surveyed during 2006: one station in the West Branch of the Du Page River (WBDPR), three stations in Salt Creek, one station in Higgins Creek, and three stations in the Des Plaines River (Table 2-2).

Among the eight stations in 2006, highly tolerant taxa were dominant in the majority of Ponar samples. In contrast, tolerant taxa were dominant at only three of the HD sampling stations. Chironomidae capsule deformities were relatively uncommon in the watershed and largely restricted to the WBDPR.

3.1.4.1 West Branch of the DuPage River (WBDPR)

The benthic macroinvertebrate community in the WBDPR at Station 64 was represented by 37 total taxa and three EPT taxa in the HD and Ponar samples combined (Tables 3-22 and 3-23). Total HD taxa richness was more than double the Ponar total richness with 32 taxa compared to the 14 taxa, respectively. Likewise, three EPT taxa were collected in the HD samples while none were observed in the Ponars. The facultative chironomid *Polypedilum flavum*, highly tolerant

Oligochaeta, and caddisfly *Cheumatopsyche* were each relatively abundant in the HD samples (Table 3-22). In contrast, the Ponar samples were dominated by the highly tolerant taxa Oligochaeta and *Chironomus* (Table 3-23). Due to the abundance of several taxa, total density was an order of magnitude higher in the HD samples compared to the total density observed in the Ponars.

Chironomid deformities were observed in both sample types and among three different taxa at Station 64. In the Ponar samples, seven of 24 *Chironomus* specimens or 12 percent of all midges examined had deformities (Table 3-6). Although the sample size was not particularly robust, this level of incidence is well above background thresholds by taxa and for taxa combined in the Great Lakes region (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). In contrast, overall incidence of deformities was relatively low in the HD samples but three taxa were affected (Table 3-13). Although the HD results suggest the WBDPR benthic community is slightly stressed based on total richness, EPT richness, and tolerant taxa abundance, the elevated level of deformities combined with the lack of EPT taxa and abundance of tolerant taxa in the Ponar samples suggests the benthic community is more moderately stressed. The inconsistencies between sample types may be result of differences between water quality and sediment quality or may be a function of substrate (i.e., habitat) quality at Station 64.

3.1.4.2 Salt Creek

HD and Ponar samples from the three stations in Salt Creek (Stations SC1, 18, and SC3) yielded 62 total taxa and nine EPT taxa (Tables 3-24 and 3-25). The HD samples produced 57 total taxa and nine EPT taxa (Table 3-24). Dominant taxa differed among stations and between sample types. Among the HD samples, tolerant taxa were abundant at the two upstream stations with *Polypedilum illinoense* and Oligochaeta being dominant at Stations SC1 and 18, respectively (Table 3-1). However, at Station SC3, the caddisfly *Cheumatopsyche* and facultative midge *Polypedilum flavum* were co-dominant. Despite differences in abundant taxa at each station, total density in HD samples was generally similar among the stations.

Total richness and EPT richness in the Ponar samples was slightly lower than the HDs with 43 total taxa and three EPT (Table 3-25). Tolerant taxa were abundant in Ponars from each of the three stations, particularly Stations 18 and SC3 where Oligochaeta accounted for 77 and 95 percent of the total density, respectively. Contrary to the HDs, total density varied substantially among locations. Total density at Station 18 was six times less than Station SC1 and twenty-four times less than Station SC3. The total density observed at Station SC3 was almost entirely due to the abundance of Oligochaeta and was the highest observed among all stations sampled in 2006.

The only chironomid deformity reported in the Salt Creek samples was a single specimen of *Polypedilum illinoense* from Station SC1. As with the WBDPR, results from the 2006 Salt Creek samples were mixed. Tolerant taxa were abundant in both sample types particularly at Stations SC1 and 18 and especially in the Ponar samples (Table 3-1), which suggests some degree of environmental stress is affecting the benthic community. However, the abundance of EPT taxa in the HD samples, presence of environmentally sensitive Tanytarsini midge taxa, and

the relatively high taxa richness observed in both the HD and Ponar samples indicates a healthier benthic assemblage compared to many of the stations surveyed in 2006.

3.1.4.3 Higgins Creek

Combined, the HD and Ponar samples from the single station in Higgins Creek (Station 78) yielded 21 total taxa and one EPT taxon (Tables 3-26 and 3-27). The HD samples produced 19 total taxa and no EPT while 12 total taxa and one EPT taxon were present in the Ponar samples. The tolerant chironomid taxon *Cricotopus bicinctus* was the dominant taxon in both sample types. Total density was eight times higher in the Ponars compared to the HDs largely due to the abundance of several taxa including species of *Cricotopus*, *Oligochaeta* and *Caecidotea*.

No chironomid head capsule deformities were observed in Higgins Creek. However, the lack of EPT taxa in the HD samples and the abundance of tolerant taxa in both sample types (Table 3-1) indicate that the benthic community in Higgins Creek is moderately stressed.

3.1.4.4 Des Plaines River

Combined, the HD and Ponar samples from the three Des Plaines River stations (Stations 13, 22, and 91) yielded 80 total taxa and 16 EPT taxa (Tables 3-28 and 3-29). These were the highest richness values observed among all the waterways sampled in 2006. In addition, the EPT richness from the Des Plaines River was the highest observed for any waterway during 2006. HD total taxa richness decreased longitudinally upstream to downstream among the three stations from 49 taxa at Station 13 to 19 taxa at Station 91 (Table 3-28). Likewise, EPT taxa richness was highest at the upstream Station 13 with nine taxa compared to eight and six EPT taxa at the two downstream Stations 22 and 91, respectively. The HD richness values observed at Station 13 were the highest observed among all the stations sampled during 2006. Station 13 also exhibited the greatest balance among the HD samples with four taxa, including the two EPT taxa *Cheumatopsyche* and *Hydropsyche simulans* along with the relatively intolerant Tanytarsini midge taxon *Rheotanytarsus* combining to account for the majority of the total density. In fact no single tolerant taxon accounted for the majority of the total density at any of the Des Plaines River HD stations and total density was relatively similar among the stations.

Ponar total and EPT taxa richness followed the same upstream to downstream trends that were observed in the HD samples with Station 13 yielding the highest richness and Station 91 producing the lowest total and EPT richness (Table 3-29). In contrast, the tolerant taxon *Oligochaeta* was abundant in the Ponar samples at all three stations, being the dominant taxon at Stations 13 and 91 and combining with *Corbicula fluminea* for the majority of the total density at Station 22. Total density was approximately seven times higher at Station 13 compared to Stations 22 and 91. Elevated abundance of *Oligochaeta* and several chironomid taxa largely contributed to the higher density observed at Station 13.

No Chironomidae head capsule deformities were observed in either the HD or Ponar samples. Overall, the results from the Des Plaines River benthic macroinvertebrate samples were mixed. Station 13 had the highest total and EPT richness in both the HD and Ponar samples. In contrast, the Station 13 HD samples had the highest number and percentage of tolerant taxa (Table 3-1).

Station 91 consistently had the lowest number of total and EPT taxa in the HDs and Ponars but had the lowest percentage of tolerant taxa in the HDs. Overall, it appears that the benthic community at all three stations is affected by environmental perturbation in varying degrees of severity and/or types of disturbance. However, based on the collection of positive community attributes expressed at Station 13, it appears that the benthic community at the two downstream Stations 22 and 91 is generally more stressed compared to Station 13.

3.2 2007 Benthic Macroinvertebrate Results

During 2007, 52 HD samples and 53 Ponar samples were collected from 27 stations in 13 different waterways (Table 2-2). Combined, these samples yielded 120 total taxa and 20 relatively pollution sensitive EPT taxa (Table 3-1). Chironomidae was the most taxa rich group with 52 taxa. Among the EPT, Trichoptera was the most taxa rich group with 12 taxa, followed by Ephemeroptera with 8 taxa.

3.2.1 Calumet Watershed

Thirteen stations were sampled in the Calumet watershed during 2007: two stations in the Calumet River, one station in the Wolf Lake Drainage Channel, one station in the Grand Calumet River (GCR), two stations in Thorn Creek, four stations in the LCR, and three stations in the Cal-Sag (Table 2-2).

Among the 13 HD samples from the Calumet watershed, dominance varied by station and or waterway. In contrast, 12 of the 13 Ponar samples were dominated by Oligochaeta. Overall, the benthic community in the Calumet watershed largely consisted of tolerant taxa and chironomid deformities were observed in five of the six waterways that were sampled.

3.2.1.1 Calumet River

The samples from the Calumet River Stations 49 and 55 yielded 42 taxa and four EPT taxa (Table 3-30 and 3-31). HD total richness was over three times higher at the upstream Station 49 with 27 taxa compared to eight taxa at Station 55 while EPT richness was only slightly higher at Station 49 (Table 3-30). Quagga mussel was clearly the dominant taxon at both stations contributing 86 and 97 percent of the total density at Stations 49 and 55, respectively. Due to the elevated abundance of quagga mussel at Station 55, total density was substantially higher compared to Station 49.

Like the HD samples, the 22 total taxa observed in the Station 49 Ponar samples were three times higher than the total richness at Station 55 (Table 3-31). However, in contrast to the HD samples, two EPT taxa were collected from Station 55 while none were observed in the Station 49 Ponars. Total density was similar between stations with Oligochaeta being the dominant taxon in the Ponar samples followed by quagga mussel. These two taxa combined to account for 64 and 97 percent of the total density at Stations 49 and 55, respectively.

Chironomidae head capsule deformities were observed in both the HD and Ponar samples but only at Station 49 (Tables 3-32 and 3-33). However, both instances involved a single specimen

and incidence was within expected background levels as reported for the Great Lakes region (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). Based on the dominance of relatively few taxa and the abundance of tolerant taxa in the Ponars, it appears that the benthic community at both stations is affected by varying degrees of environmental stress. However, the substantially lower taxa richness in both sample types suggests that the community at Station 55 is more highly stressed.

3.2.1.2 Wolf Lake Drainage Channel

The benthic macroinvertebrate community in the Wolf Lake Drainage Channel (Station 50) was represented by eight total taxa and one EPT taxon (Tables 3-34 and 3-35). Total richness was nearly identical between sample types with five and four taxa in the HD and Ponar samples, respectively. The only EPT taxon collected was observed in the Ponar samples (Table 3-35). Oligochaeta was the dominant taxon in both sample types accounting for 60 percent or more of the total density. HD total density was noticeably lower than Ponar total density and easily the lowest among all stations sampled in 2007.

Overall, the community was dominated by tolerant organisms but head capsule deformities were not observed. Nonetheless, given the low total and EPT taxa richness, extremely low HD total density, and the abundance of tolerant taxa, it appears the benthic community at Station 50 is highly stressed.

3.2.1.3 Grand Calumet River (GCR)

Combined, the HD and Ponar samples from the single station in the GCR (Station 86) yielded 21 total taxa (Tables 3-36 and 3-37) and no EPT. With 19 taxa, HD total richness was more than double the seven taxa observed in the Ponar samples. Total density was considerably higher in the Ponars largely driven by Oligochaeta abundance. Oligochaeta was clearly the most dominant taxon, accounting for over 85 percent of the total density in both the HD and Ponar samples. A majority of the HD and Ponar taxa were individually represented by less than one percent of the total density.

Two *Chironomus* specimens from the HD samples exhibited deformities. Although this accounted for 67 of the *Chironomus* examined, the sample size was small and the overall incidence was below expected background levels (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). However, based on the abundance of Oligochaeta in both sample types and the fact that over half the taxa observed are considered highly tolerant (Table 3-1) it is reasonable to conclude that the benthic community at Station 86 is moderately stressed.

3.2.1.4 Thorn Creek

Together, the HD and Ponar samples from the two Thorn Creek stations (Stations 54 and 97) yielded 47 total taxa and five EPT taxa (Tables 3-38 and 3-39). HD total and EPT taxa richness was slightly higher at downstream Station 97 with 38 total and four EPT taxa compared 28 total and two EPT taxa at Station 54 (Table 3-38). Total HD densities between the two stations were fairly similar. At Station 54, Oligochaeta was the dominant taxon while Oligochaeta,

Caecidotea, *Ferrissia*, and *Cheumatopsyche* combined for the majority of the total density at Station 97.

As with the HD samples, total richness was higher downstream with 20 taxa at Station 97 and eight taxa at Station 54 (Table 3-39). The single EPT taxon collected in the Ponars was also observed at Station 97. Oligochaeta was abundant at both stations and was the dominant taxon at Station 97. However, at Station 54, *Polypedilum scalaenum* and Oligochaeta combined for the majority of the total density. Due in large part to the abundance of Oligochaeta, total density at Station 97 was nearly four times the total density of Station 54.

The incidence of chironomid head capsule deformities in the Thorn Creek was restricted to *Chironomus* and *Paratanytarsus* from the Station 97 HD samples. However, the individual taxon sample sizes were small and the overall incidence was below expected background levels (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003).

The benthic community at both stations could be characterized as relatively pollution tolerant based on community composition and relative abundance of tolerant taxa (Table 3-1). However, total and EPT richness were lower in both sample types from Station 54, especially in the Ponars. Therefore, it appears the benthic community at Station 54 is somewhat more stressed than at Station 97.

3.2.1.5 Little Calumet River (LCR)

HD and Ponar samples from the four LCR stations (Stations 52, 57, 76, 56) yielded a combined 61 total and four EPT taxa (Tables 3-40 and 3-41). The HD samples produced 48 total taxa and four EPT taxa (Table 3-40). Among Stations 52, 76, and 56, total taxa richness was similar (17-19 taxa) but at Station 57 it was somewhat higher (28 taxa). EPT richness followed a similar trend with four taxa at Station 57 and zero to one EPT at the remaining three stations. Total HD density was variable among the stations but substantially higher at Stations 76 and 56. Total density at Station 56 was largely driven by the dominant quagga taxa mussel whereas multiple taxa combined for the majority of the total density at the three upstream stations. Turbellaria and *Caecidotea* combined for 75 percent of the total density at Station 52 while *Gammarus*, *Dicrotendipes lucifer*, and *Paratendipes* made up 57 percent of the total density at Station 57. Total density at Station 76 was largely influenced by three taxa as well including *Hydra*, *Dicrotendipes lucifer*, and quagga mussel, which accounted for 84 percent of the benthos.

The Ponar samples yielded 36 total taxa and no EPT (Table 3-41). Ponar total taxa richness ranged from six taxa at Station 57 to 23 taxa at Station 52. Oligochaeta was the dominant taxon at all four stations contributing 66 to 88 percent of the total density. Ponar densities varied substantially among the four stations being decidedly higher at Station 76 and lower at Station 57. At each station, density was dictated primarily by Oligochaeta abundance.

Chironomidae head capsule deformities were observed in both the HD and Ponar samples (Tables 3-32 and 3-33). At station 56, deformities occurred in both the HD and Ponar samples affecting a low number of *Nanocladius distinctus*, *Dicrotendipes lucifer*, and *Chironomus*. In the Station 76 Ponars, a single specimen of *Procladius* exhibited a deformity. In all cases, total

incidence was near published reference levels (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). However, the abundance of tolerant taxa (Table 3-1) in both sample types and modest to low total and EPT taxa richness suggests the benthic community among the four LCR sampling stations is moderately to highly stressed.

3.2.1.6 Calumet-Sag Channel (Cal-Sag)

The HD and Ponar samples from the three Cal-Sag Stations (58, 59, and 43) yielded 37 total taxa and two EPT taxa (Table 3-42 and 3-43). Combined the HD samples yielded 32 total taxa and two EPT taxa (Table 3-42). Total and EPT taxa richness was similar among all three sampling stations yielding between 22 and 26 total taxa and one to two EPT taxa. Although dominant taxa differed somewhat, total density among the HD stations was generally similar. The tolerant chironomid *Dicrotendipes lucifer* was consistently abundant at each of the three sampling stations; however no single taxon produced the majority of the total density.

Total taxa richness for the Ponar samples combined was less than half the HD total richness with 14 taxa and no EPT (Table 3-43). Total richness was similar between Stations 58 and 43 with five and seven taxa but somewhat higher at Station 59 with 12 taxa. Total density varied greatly among the three stations and was strongly related to the abundance of *Oligochaeta*, which was the dominant taxon at each station.

Chironomidae head capsule deformities were observed at each of the three sampling stations. Among the HD samples, a single deformed specimen of *Glyptotendipes* was observed at Station 43 (Table 3-32). Chironomid deformities were noticeably elevated among the three stations in the Ponar samples with total incidence ranging from 4.3 percent at Station 59 to 15 percent at Station 58 (Table 3-33). Even with the small sample size at Station 59, these results collectively represent the highest level of incidence among the waterways sampled in 2007.

Based on the abundance of tolerant taxa in both the HD and Ponars, the dominance of relatively few and tolerant taxa, the low total and EPT richness, particularly in the Ponar samples, and the incidence of deformities in the Ponar samples, these data suggest that the benthic community in the Cal-Sag Channel is moderately to highly stressed.

3.2.2 North Branch Chicago River Watershed

Sampling was conducted at three stations in the North Branch of the Chicago River watershed during 2007: one station in the NSC and two stations in the NBCR (Table 2-2).

In the HD samples collected from the North Branch Chicago River watershed, the dominant taxa were *Oligochaeta*, *Turbellaria*, or the sow bug *Caecidotea*. *Oligochaeta* was the dominant taxon in all Ponar samples. The incidence of Chironomidae deformities was low in the watershed.

3.2.2.1 North Shore Channel (NSC)

Combined, the HD and Ponar samples from the single station in the NSC (Station 36) produced 24 total taxa and no EPT taxa (Tables 3-44 and 3-45). The HD samples produced 21 taxa (Table

3-44) compared to the 14 taxa in the Ponar samples (Table 3-45). In the HD sample, the highly tolerant taxa *Oligochaeta* and *Glyptotendipes* combined to make up 84 percent of the total density whereas *Hyalella azteca* composed 95 percent of the total density in the Ponars. Overall, total density in the HD samples was more than seven times higher than Ponar total density.

Glyptotendipes was the only taxa to exhibit head capsule deformities at the NSC station and these were restricted to the HD samples (Table 3-32). Individual taxon and total incidence levels were within range of background conditions (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). Nonetheless, the benthic community of the NSC could be characterized as moderately to highly stressed. This assertion is supported by the fact that of the 24 total taxa observed 10 are considered highly tolerant (Table 3-1) and tolerant taxa composed >80 percent of the benthic community in the HD samples.

3.2.2.2 North Branch of the Chicago River (NBCR)

Combined, the HD and Ponar samples from the two stations in the NBCR (Stations 96 and 46) yielded 49 total taxa, including eight EPT taxa (Tables 3-46 and 3-47). The HD samples yielded 43 total taxa and eight EPT taxa (Table 3-46). HD total taxa richness was noticeably different between the two stations with the upstream Station 96 having 37 total taxa and all eight EPT taxa while only 16 total taxa and no EPT were observed at the downstream Station 46. Total density was similar between the stations but differed in terms of composition. Four taxa including *Caecidotea*, *Gammarus*, *Cheumatopsyche*, and *Ferrissia* made up the majority of the total density at Station 96 while Station 46 was dominated by *Oligochaeta* and *Turbellaria*.

The Ponar samples produced 11 total taxa and no EPT (Table 3-47). Total Ponar taxa richness was similar between the stations with six and eight total taxa. In contrast, total Ponar densities were vastly different with the Station 46 density being 10 times greater than at Station 96. *Oligochaeta* was the dominant taxon at both stations representing 70 and 99 percent of the total density at Stations 96 and 46, respectively.

No Chironomidae head capsule deformities were observed at either station in the NBCR during 2007. However, the fact that the benthos at Station 46 lacked of EPT taxa and was dominated by relatively few and highly tolerant taxa (Table 3-1), particularly in the Ponar samples, suggests that the benthic community at that station is moderately to highly stressed. In contrast, the higher taxa richness, presence of eight EPT taxa, and the more balanced abundance of taxa, particularly in the HD samples, at Station 96 indicates the benthic community is less stressed compared to the community at Station 46.

3.2.3 South Branch Chicago River and Chicago Sanitary and Ship Canal Watershed

Benthic macroinvertebrate sampling was conducted at three stations all within the CSSC (Table 2-2). Chironomid deformities were observed among the stations but in low numbers whereas tolerant taxa were an integral component at all stations and in both sample types.

3.2.3.1 Chicago Sanitary and Ship Canal

Combined, the HD and Ponar samples from the three CSSC stations (Stations 75, 41, and 92) yielded 30 total taxa and two EPT taxa (Tables 3-48 and 3-49). The HD samples produced 24 total taxa and two EPT taxa (Table 3-48). HD taxa richness increased from upstream to downstream ranging from 12 total taxa and no EPT at Station 75 to 22 total taxa and two EPT taxa at Station 92. Total density was similar between Stations 75 and 92 but approximately two times higher at Station 41. At Stations 75 and 92, numerical dominance was distributed among multiple taxa at each of the three stations, particularly Stations 75 and 92. Among the three stations abundance was largely driven to varying degrees by *Hydra*, *Turbellaria*, *Oligochaeta*, *Gammarus*, *Dicrotendipes lucifer*, and *D. simpsoni*. In contrast, *Oligochaeta* was the dominant taxon at Station 41.

Taxa richness in the combined Ponar samples was similar to the HDs with 18 total taxa and one EPT taxon (Table 3-49). Ponar total taxa richness was identical between Stations 75 and 92 with six taxa and more than double that (13 taxa) at Station 41. Total density varied greatly among the three stations due to differences in *Oligochaeta* abundance, which accounted for over 94 percent of the total density at each of the three locations.

Chironomid head capsule deformities were observed in the HD samples at two stations and in the Ponar samples at one station in the CSSC (Tables 3-32 and 3-33). *Dicrotendipes lucifer* and *D. simpsoni* were the affected taxa in the HD samples while *Procladius* was the only taxon affected in the Ponars. Deformities were relatively low at all locations in both sample types, ranging from one to three individuals with deformities.

The abundance of tolerant taxa among the three stations and particularly in the Ponar samples (Table 3-1) indicates that the benthic community at each of the stations is affected by environmental stress. However, based on higher taxa richness and lower abundance of *Oligochaeta* in the HD samples, it appears that conditions are somewhat better at Station 92.

3.2.4 Des Plaines River Watershed

Sampling was conducted at eight stations in the Des Plaines River watershed during 2007: one in the WBDPR, three in Salt Creek, one in Higgins Creek, and three in the Des Plaines River (Table 2-2).

The benthic community in the Des Plaines River watershed exhibited a substantial amount of variability. Like many of the watersheds sampled in 2007, tolerant taxa were integral components of the benthos at the majority of the Des Plaines River watershed stations. However, at a few stations, more environmentally sensitive taxa like EPT and Tanytarsini midges contributed a substantial portion to the benthic community and taxa richness was among the highest observed.

3.2.4.1 West Branch of the DuPage River (WBDPR)

The benthic macroinvertebrate community in the WBDPR at Station 64 was represented by 33 total taxa and two EPT taxa in the HD and Ponar samples (Tables 3-50 and 3-51). Taxa richness was similar between sample types with 21 total taxa and two EPT taxa in the HDs and 25 total taxa and one EPT in the Ponars. In the HD samples, the highly tolerant taxon *Glyptotendipes* was the dominant taxon while *Nanocladius minimus* and the tolerant midge *Polypedilum illinoense* were also common (Table 3-50). In the Ponars, the tolerant midge taxa *Chironomus* and *Glyptotendipes* combined with the facultative midge taxa *Cryptochironomus* for the majority of the total density (Table 3-51). Overall, due to the higher abundance of nearly all taxa, total density in the HD samples was nearly seven times higher than in the Ponars.

No chironomid head capsule deformities were observed in the WBDPR samples. However, tolerant taxa represented the majority of the total density in both sample types while more sensitive taxa such as caddisflies and Tanytarsini midges generally represented five to six percent of the total. Therefore, it is reasonable to characterize the WBDPR benthic community as moderately stressed, during 2007.

3.2.4.2 Salt Creek

HD and Ponar samples from the three stations in Salt Creek (Station SC1, 18, and SC3) yielded 53 total taxa and eight EPT taxa (Tables 3-52 and 3-53). The HD samples produced 46 total taxa and six EPT taxa (Table 3-52). Taxa richness was similar between the two downstream stations with 36 to 37 total taxa and six EPT taxa while taxa richness at the upstream Station SC1 was noticeably lower with 22 total taxa and two EPT taxa. No single taxon composed the majority of total density at any of the three stations. The caddisfly *Cheumatopsyche* was an important part of the benthos at each station while the highly tolerant taxa *Polypedilum illinoense* and *Oligochaeta* also were abundant at Stations SC1 and 18. Like taxa richness, total density was higher at the downstream stations and lowest at the upstream Station SC1.

Taxa richness from the Ponar samples was similar to the HD samples with 38 total taxa and five EPT taxa (Table 3-53). Total richness among the stations was identical with 23 total taxa while EPT richness ranged from one taxon at Station SC1 to three taxa at Stations 18 and SC3. Compared to other watersheds or even the Salt Creek HD samples, tolerant taxa were notably less abundant in the 2007 Salt Creek Ponar samples. The dominant taxon at all three Ponar stations was the more environmentally sensitive Tanytarsini midge *Cladotanytarsus mancus*. Ohio EPA (1988) found that Tanytarsini midges often are absent from stations with even slight disturbance indicating their low threshold for environmental perturbation. Among the tolerant taxa observed in the Salt Creek Ponars, only *Oligochaeta* at Station SC3 achieved more than 10 percent of the total density.

Chironomid head capsule deformities were collectively observed in two species of *Polypedilum* and *Dicrotendipes fumidus* at Stations SC1 and 18 in 2007 (Tables 3-32 and 3-33). However, these deformities were restricted to one or two specimens of each species and both taxa and total incidence levels were within the expected range of background conditions (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003).

Results from the 2007 sampling of Salt Creek were relatively favorable. Although tolerant taxa were an important component of the benthos at all stations and in both sample types, no tolerant taxon composed a majority of the benthos at any of the three stations, regardless of sample type. In addition, the abundance of Tanytarsini midges in the Ponar samples, low incidence of head capsule deformities, and the relatively high taxa richness observed in both the HDs and Ponars indicates a healthier benthic assemblage compared to many of the waterways surveyed in 2007.

3.2.4.3 Higgins Creek

Combined, the HD and Ponar samples from the single station (Station 78) in Higgins Creek yielded 28 total taxa and one EPT taxon (Tables 3-54 and 3-55). Eighteen total taxa and one EPT taxon were observed in the HD samples while 23 total taxa were present in the Ponar samples. *Caecidotea* and the highly tolerant chironomid *Cricotopus bicinctus* composed the majority of the total density in the HD samples. In the Ponars, two tolerant taxa, *C. bicinctus* and *Oligochaeta* were the most abundant taxa. Total density in the Ponar samples was nearly twice as high as in the HD samples primarily due to the abundance of *Cricotopus bicinctus*.

Sample size and number of head capsule deformities were relatively low in Higgins Creek with anomalies being observed on only four specimens between the HDs and Ponars (Tables 3-32 and 3-33). Highly tolerant taxa composed 50 percent or more of the total density for each sample type while relatively perturbation sensitive taxa were scarce. These results suggest that the benthic community in Higgins Creek is moderately stressed.

3.2.4.4 Des Plaines River

Combined, the HD and Ponar samples from the three Des Plaines River stations (Stations 13, 22, and 91) yielded 69 total taxa and 16 EPT taxa (Tables 3-56 and 3-57). Total and EPT richness were the highest values observed among all the waterways sampled in 2007. HD samples were only recovered from Stations 13 and 91. However Ponars were collected from all three stations.

The HD samples at Stations 13 and 91 yielded 57 total and 15 EPT taxa (Table 3-56). HD total and EPT richness were approximately twice as high at Station 13 compared to Station 91. Despite these notable differences, total density and composition was similar between the two stations. At both stations, relatively intolerant hydropsychid caddisflies and the midge *Polypedilum flavum* combined to make up the majority of the total density. In addition, the relatively sensitive Tanytarsini midge *Rheotanytarsus* was abundant at Station 91.

The Ponar samples produced 37 total taxa and six EPT taxa (Table 3-57). Ponar total taxa richness was similar among the stations with 20 to 16 taxa. In contrast, EPT richness decreased from four taxa at Station 13 downstream to one taxon at Station 91. Composition differed noticeably among the stations. The relative abundance of the highly tolerant taxon *Oligochaeta* increased from upstream to downstream while more environmentally intolerant EPT taxa and Tanytarsini taxa decreased from upstream to downstream. At Station 13, *Cladotanytarsus mancus*, *Cheumatopsyche*, and *Oligochaeta* composed the majority of total density. However, at Station 91, *Oligochaeta* accounted for 83 percent of the total density, which was two to 10 times higher than Stations 13 and 22, respectively.

Chironomid head capsule deformities were observed in the Station 91 Ponar samples where five out of 100 *Chironomus* exhibited deformities (Table 3-33). In the Great Lakes, Burt et al. (2003) found that for 125 *Chironomus* examined, incidence levels greater than 2.65 percent represented a significant elevation of deformities for that taxon. Although only 100 *Chironomus* were examined from the Station 91 Ponars, it is reasonable to expect that the five percent incidence of deformities represents a notable increase above background.

Based on relative abundance, tolerant taxa were a fairly minor component in the samples at Station 13. In contrast, tolerant taxa were a relatively more important component in the samples from Stations 22 and 91. Tolerant taxa relative abundance in the Ponars increased sequentially in a longitudinal manner from Station 13 to Station 91. This combined with the upstream to downstream decline of HD and Ponar total taxa richness and EPT richness for both sample types suggests that benthic community quality decreases and environmental stress increases in a downstream manner between Station 13 and Station 91.

3.3 2008 Benthic Macroinvertebrate Results

During 2008, 59 HD samples and 58 Ponar samples were collected from 30 stations in 12 different waterways (Table 2-3). Combined, the 2008 samples yielded 143 taxa, the highest number of taxa observed during the eight years of monitoring (Table 3-1). The 17 EPT taxa collected in 2008 was similar to the EPT richness observed in 2006 (17 taxa) and 2007 (20 taxa). As in previous years, Chironomidae was the most taxa rich group with 61 taxa followed by Trichoptera with 11 taxa and Ephemeroptera, Pelecypoda, and Gastropoda all with eight taxa.

3.3.1 Calumet Watershed

Three stations were sampled in the Calumet watershed during 2008: one station in the Calumet River, one station in the LCR, and one station in the Cal-Sag (Table 2-3).

Overall, the HD samples from the Calumet watershed were dominated by quagga mussel, (*Dreissena bugensis*), zebra mussel (*Dreissena polymorpha*), *Dicrotendipes* midges, or Oligochaeta. In contrast, the Ponar samples were dominated by Oligochaeta or zebra mussel. Chironomid deformities were observed at two of the three stations and in both sample types.

3.3.1.1 Calumet River

Combined, the HD and Ponar samples from the single station in the Calumet River (Station 55) yielded 24 total taxa and one EPT taxon (Tables 3-58 and 3-59). Eleven total taxa and one EPT taxon were observed in the HD samples while 20 total taxa were present in the Ponar samples with no EPT. Total density in the HD samples was more than an order of magnitude higher than in the Ponar samples due to the extreme abundance of quagga and zebra mussels. The dreissenid mussels were the dominant taxa in both sample types, collectively representing over 97 and 80 percent of the total density in the HDs and Ponars, respectively.

No Chironomidae head capsule deformities were observed in the samples from Station 55. However, based on the relatively low taxa richness in the HD samples, low EPT richness in both

sample types, and the dominance by two species, it is reasonable to characterize the benthic community at Station 55 in the Calumet River as moderately to highly stressed.

3.3.1.2 Little Calumet River (LCR)

The HD and Ponar samples from the single station in the LCR (Station 76) yielded 31 total taxa and one EPT taxon (Tables 3-60 and 3-61). Total taxa richness in the HD samples was slightly higher compared to the Ponars with 26 and 18 taxa, respectively. The only EPT taxon, *Cyrmellus fraternus*, was restricted to the HD samples. Multiple taxa including, *Hydra*, highly tolerant midges *Dicrotendipes lucifer* and *D. simpsoni*, and zebra mussel combined for the majority of the total density in the HD samples. In contrast, all taxa except the highly tolerant Oligochaeta and *Procladius* were represented by less than one percent of the total density in the Ponar samples.

Chironomidae head capsule deformities were exhibited by *Dicrotendipes lucifer* in both the HDs and Ponars (Tables 3-62 and 3-63). In both cases, the number of affected specimens was low and the total incidence was within expected reference levels (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). However, nearly half of the taxa represented in the HD and Ponar samples are considered highly tolerant and tolerant taxa accounted for 50 percent or more of the total density in the two sample types. As such, it appears the benthic community at Station 76 is moderately to highly stressed.

3.3.1.3 Calumet-Sag Channel (Cal-Sag)

Together, the HD and Ponar samples from the single station in the Cal-Sag (Station 59) combined to yield 29 total taxa and two EPT taxa (Tables 3-64 and 3-65). The HD samples produced 26 total and two EPT taxa while nine total taxa and no EPT were observed in the Ponars. Although total density was similar between sample types, composition was somewhat different. *Caecidotea*, *Dicrotendipes lucifer*, zebra mussel, and Oligochaeta combined to account for the majority of the total density in the HD samples while Oligochaeta clearly was the dominant taxon in the Ponars with nearly 80 percent of the total density.

Chironomidae head capsule deformities were observed in both the HD and Ponar samples at Station 59. In the HD samples, three taxa exhibited deformities, however in each case either sample size was small or incidence was low (Table 3-62). In contrast, six *Procladius* or 4.2 percent of all *Procladius* examined were affected in the Ponar samples (Table 3-63). Burt et al. (2003) found that for 125 *Procladius* examined from multiple locations in the Great Lakes, incidence levels greater than 2.73 percent represented a significant elevation of deformities for that taxon. Given that 143 *Procladius* were examined, these data suggest that the level of incidence observed in the Station 59 Ponars represents a notable increase above expected background levels. Therefore, the incidence of deformities in the Ponars combined with the abundance of tolerant taxa (Table 3-1) and low density of pollution sensitive taxa (i.e., EPT) suggests that the benthic community at Station 59 in the Cal-Sag is moderately to highly stressed.

3.3.2 North Branch Chicago River Watershed

Sampling was conducted at four stations in the North Branch Chicago River watershed during 2008: one station in the NSC and two stations in the NBCR (Table 2-2).

Oligochaeta dominated both sample types at two of the three sampling stations while chironomid head capsule deformities were observed at all three stations. In contrast, perturbation sensitive taxa were largely restricted to one location in 2008.

3.3.2.1 North Shore Channel (NSC)

The combined HD and Ponar samples from the single station in the NSC (Station 36) yielded 17 total taxa and no EPT (Tables 3-66 and 3-67). The HD samples yielded 16 total taxa while 12 taxa were collected in the Ponar samples. The highly tolerant taxa Oligochaeta was dominant in both sample types. Total density was twice as high in the HD samples due to the abundance of Oligochaeta and the highly tolerant midge taxa *Dicrotendipes simpsoni* and *Glyptotendipes*. Combined these three tolerant taxa accounted for over 88 percent of the total density in the HD sample while Oligochaeta alone represented over 92 percent of the total density in the Ponars.

Chironomidae head capsule deformities were observed in both the HD and Ponar samples (Tables 3-62 and 3-63). However, only *Chironomus* in the Ponar samples exhibited a level of incidence above background conditions in the Great Lakes (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). Based on the abundance of tolerant taxa in both sample types and the incidence of deformities in the Ponar samples, it appears the benthic community at Station 36 in the NSC is moderately to highly stressed.

3.3.2.2 North Branch of the Chicago River (NBCR)

The combined number of taxa collected in the HD and Ponar samples from the two NBCR stations (Stations 96 and 46) was 43 total taxa and four EPT taxa (Tables 3-68 and 3-69). HD total richness was noticeably higher at the shallow upstream Station 96 (26 taxa) compared to the 16 taxa observed in the deep draft waters at Station 46 (Table 3-68). In addition, three of the four EPT taxa observed in the NBCR were collected in the HDs at Station 96. The highly tolerant taxon *Ferrissia* was clearly the dominant taxa at Station 96 representing nearly 80 percent of the total density. In contrast, the tolerant taxon Oligochaeta combined with Turbellaria to account for 77 percent of the total density at Station 46.

As with the HD samples, Ponar total taxa richness was highest at Station 96 with 17 taxa while Station 46 had 4 taxa (Table 3-69). Oligochaeta and *Polypedilum scalaenum* were the most abundant taxa at Station 96 representing 63 and 22 percent of the total density, respectively. However, at Station 46, Oligochaeta composed nearly 100 percent of the total benthos. Total Ponar density was five times higher downstream at Station 46.

Chironomid head capsule deformities were observed in the Station 96 Ponar samples and the Station 46 HDs. However, in both cases taxa specific and/or total incidence levels were near or

below expected background levels (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003).

Although these results suggest that the benthic communities at both stations are likely affected by adverse environmental conditions, based on the higher taxa richness and presence of EPT taxa at Station 96 compared to the lower taxa richness and greater abundance of tolerant taxa at Station 46, it appears the benthic community at Station 46 is more environmentally stressed than at Station 96.

3.3.3 South Branch Chicago River and Chicago Sanitary and Ship Canal Watershed

Benthic macroinvertebrate sampling was conducted at three stations exclusively within the CSSC waterway during 2008 (Table 2-3). Tolerant taxa were abundant at most stations in 2008. In all but one of these instances, the dominant taxon was Oligochaeta. Chironomid head capsule deformities were observed at all three stations in the CSSC waterway in 2008.

3.3.3.1 Chicago Sanitary and Ship Canal (CSSC)

The HD and Ponar samples from the three CSSC stations combined yielded 37 total taxa and five EPT taxa (Tables 3-70 and 3-71). The HD samples produced 31 total taxa and three EPT taxa (Table 3-70). HD total taxa richness ranged from 25 taxa at Station 92 to 15 taxa at both Stations 75 and 41. Likewise, three EPT taxa were observed at Station 92 while Stations 75 and 41 reported one taxon. The tolerant taxa Oligochaeta, *Dicrotendipes lucifer*, and *D. simpsoni* represented over 70 percent of the total density at Stations 75 and 41 whereas *Hydra* was the dominant taxon at Station 92. Total density was somewhat similar among the three stations.

The Ponar samples yielded 25 total and three EPT taxa (Table 3-71). Ponar total taxa richness increased sequentially from upstream to downstream with six taxa at Station 75, 11 taxa at Station 41, and 20 taxa at Station 92. No EPT taxa were observed at Station 75 whereas two EPT taxa were collected in the Ponars from both Stations 41 and 92. Oligochaeta was the dominant taxon at all three stations representing between 74 and 94 percent of the total density. Total density was similarly lower at Stations 75 and 41 but more than twice as high at Station 92 due to the abundance of Oligochaeta.

Chironomid head capsule deformities were observed at Stations 75 and 41 in the HD samples and at Station 92 in the Ponar samples (Tables 3-62 and 3-63). The level of incidence observed at Station 75 was below background levels. Unfortunately, baseline incidence levels for *Dicrotendipes* are not available; however, the level of incidence for *Dicrotendipes simpsoni* at Station 41 and the collective level of total incidence at Station 92 appear to be somewhat elevated given the sample sizes.

Overall, the benthic communities at Stations 75 and 41 appear to be highly stressed as judged by high percentages of tolerant organisms and fairly low taxa richness. Based on higher taxa richness, lower abundance of tolerant organisms, and a somewhat more balanced assemblage, Station 92 appears to be moderately stressed.

3.3.4 Fox River Watershed

The only waterbody sampled in the Fox River watershed was Poplar Creek. 2008 marks the second time Poplar Creek has been sampled during the current monitoring program (Table 2-3).

3.3.4.1 Poplar Creek

Combined, the HD and Ponar samples from Station 90 in Poplar Creek yielded 53 total taxa and five EPT taxa (Tables 3-72 and 3-73). Taxa richness varied from 32 total and five EPT taxa in the HDs to 23 total and one EPT taxon in the Ponars. Several taxa combined to compose the majority of the total HD density including, the tolerant taxon *Oligochaeta*, the more environmentally intolerant taxa *Baetis intercalaris*, *Cheumatopsyche*, and *Rheotanytarsus*, as well as facultative taxa such as *Paratendipes* and *Rheocricotopus robackia*. In contrast, *Oligochaeta* clearly dominated the Ponar total density accounting for 78 percent of the total benthos. The total density in the Ponar samples was noticeably higher than in the HD due almost entirely to the abundance of *Oligochaeta*.

No midges with head capsule deformities were observed in Poplar Creek. However, based on the relatively balanced benthic community, particularly evident in the HD samples, Poplar Creek appears to be slightly to moderately stressed.

3.3.5 Des Plaines River Watershed

The 2008 benthic macroinvertebrate monitoring in the Des Plaines River watershed was conducted at 20 stations: three stations in the WBDPR, one station in Buffalo Creek, six stations in Salt Creek, two stations in Higgins Creek, and eight stations in the Des Plaines River (Table 2-3).

Oligochaeta was an important component of the benthic community at the majority of the Ponar sampling stations while composition was more variable in the HD samples. In addition, tolerant taxa generally remained abundant at more than half of the stations in 2008. Chironomidae head capsule deformities were elevated at a few stations but were observed in less than half of the stations sampled. Total and EPT taxa richness were relatively high compared to the other watersheds sampled in 2008.

3.3.5.1 West Branch of the DuPage River (WBDPR)

Combined, the HD and Ponar samples from the three stations in the WBDPR (Stations 110, 89, and 64) yielded 59 total taxa and four EPT taxa (Tables 3-74 and 3-75). The HD samples produced 51 total taxa and four EPT taxa (Table 3-74). HD total richness was higher at the downstream Stations 89 and 64 with 34 and 35 total taxa while the upstream Station 110 yielded only 11 total taxa. EPT taxa in the HD samples were restricted to Station 64 with four taxa. *Oligochaeta* was the dominant taxon at Stations 110 and 64 while *Turbellaria* was the dominant taxon at Station 89. Total density increased sequentially from upstream to downstream. Total density at Station 64 was three times higher than at Station 89 and more than twenty times higher

than Station 110. The noticeably higher density at Station 64 was largely the result of high numbers of Oligochaeta, Turbellaria, and the midge *Glyptotendipes*.

The Ponar samples produced 37 total taxa and one EPT taxon (Table 3-75). Similar to the HD samples, Ponar total richness was highest at the downstream Station 64 with 27 taxa while Stations 110 and 89 were similar with 15 and 11 total taxa, respectively. The single EPT taxon was only collected at Station 64. In contrast to the HD samples, total density for the Ponar stations was highest at the upstream station (Station 110) and substantially lower downstream at Stations 89 and 64. Substantial numbers of the midge *Chironomus* were observed at Stations 110 and 89. However, density in the Ponars was driven primarily by the abundance of Oligochaeta at all stations.

Chironomid head capsule deformities were largely restricted to *Chironomus* at Station 89 (Tables 3-62 and 3-63). Although *Chironomus* was very abundant in the Ponars at Stations 110 and 89 and present at all the stations regardless of sample type, nine and eight percent of the *Chironomus* exhibited deformities in the HD and Ponar samples from Station 89 while none of the *Chironomus* from Stations 110 and 64 were deformed. In both the HD and Ponars, the levels of incidence observed at Station 89 were well above the 2.65 percent background level for *Chironomus* in the Great Lakes (Burt et al. 2003). Based on the lack of EPT taxa, lower total richness, the abundance of tolerant taxa (Table 3-1), and/or the elevated incidence of deformities, Stations 110 and 89 appear to be moderately to highly stressed while Station 64 appears to be moderately stressed.

3.3.5.2 Buffalo Creek

HD and Ponar samples from the single station in Buffalo Creek (Station 12) yielded 54 total taxa and seven EPT taxa (Tables 3-76 and 3-77). The HD samples produced 46 total taxa and all seven EPT taxa, whereas the Ponar samples had 27 total taxa and three EPT. Oligochaeta, Turbellaria, and *Hydra* combined to make up the majority of the density in the HD samples while *Stictochironomus* and Oligochaeta were the dominant taxa in the Ponar samples.

Chironomid head capsule deformities were fairly low at this station with a single deformed specimen in the HD samples amounting to less than one percent (Table 3-62). Given the number of taxa, the presence of five relatively pollution sensitive Tanytarsini taxa and seven EPT taxa, as well as the distribution of abundance among taxa in the HD samples, it appears the benthic community at Station 12 is slightly stressed.

3.3.5.3 Salt Creek

HD and Ponar samples from Stations 79, 80, 18, SC3, 24 and 109 produced 91 total taxa and 15 EPT taxa (Tables 3-78 and 3-79). These were the highest combined richness values observed among all waterways sampled in 2008. The HD samples produced 77 total taxa and all 15 EPT taxa (Table 3-78). Total taxa richness for the HD samples was highest at Stations 18 and SC3 (44 and 49 taxa, respectively) and lowest at Stations 79 and 80 (19 and 18 taxa, respectively). Likewise, EPT taxa richness at Station SC3 was more than double Station 80. The richness values observed among all stations sampled in 2008. The dominant taxon for the upstream

station (Station 79) was the tolerant midge *Glyptotendipes*, also present in substantial numbers were Oligochaeta and the midge *Dicrotendipes simpsoni*. Aside from these nearly co-dominant taxa, no other taxon at this station accounted for more than three percent of the total sample. The EPT taxon *Cheumatopsyche* and chironomid *Polypedilum flavum* were among the most abundant taxa at Stations 80, 18, and SC3 while the EPT taxon *Stenacron* was the dominant taxon at Station 24. *Stenacron* combined with *Cheumatopsyche* and the tolerant snail *Ferrissia* for the majority at Station 109. HD total density was highest among the three upstream stations and noticeably lower downstream, particularly at Stations 24 and 109.

Ponar samples yielded 59 total taxa and seven EPT taxa (Table 3-79). Total richness was highest among the four upstream stations but lower and identical at Stations 24 and 109. EPT richness was similar among the six locations. Oligochaeta was the most abundant taxon at all stations except Station 80 where the midge taxa *Cladotanytarsus mancus* was the most abundant and combined with the midges *Cryptochironomus* and *Pseudochironomus* for the majority of the total density. Ponar total density varied somewhat among the six stations. Generally, Ponar density at Stations 79, 80, and 18 and Stations SC3 and 24 were more similar to each other. However, total density at Station 109 was nine times more than the density at Station 24. Except for Stations 80 and SC3, the abundance of Oligochaeta determined the total density pattern at the other four stations.

Chironomid head capsule deformities were observed at Stations 18 and 79 from the HD and Ponar samples, respectively (Tables 3-62 and 3-63). In both cases, incidence was within the range of background levels (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003).

In terms of environmental disturbance, results from the HD and Ponar samples were somewhat conflicted. Among the HD samples, Stations 79 and 80 recorded the lowest total and EPT richness whereas these stations were among the highest for total richness in the Ponars. In contrast, EPT were the most abundant taxa at five of six stations in the HDs but the tolerant taxon Oligochaeta was the most abundant taxon at five of the six Ponar stations. Nonetheless, the relatively high total and EPT richness in the HD at Stations 18 and SC3 suggests these stations are less stressed compared to the remaining four stations.

3.3.5.4 Higgins Creek

Combined, the HD and Ponar samples from Stations 77 and 78 in Higgins Creek yielded 37 total taxa and one EPT taxon (Tables 3-80 and 3-81). Total taxa richness was similar for both the HD and Ponar samples for stations combined with 28 and 21 total taxa and one EPT taxon. In the HD samples, total taxa richness was noticeably higher at Station 77 with 23 taxa versus 13 taxa at Station 78 (Table 3-80). One EPT taxon was observed at both stations. The tolerant taxa Oligochaeta, *Cricotopus sylvestris*, and *Chironomus* made up the majority at Station 77 while at Station 78, *Caecidotea* and the tolerant taxon *Cricotopus bicinctus* were the most abundant. Contrary to total richness, total density was 10 times higher at Station 78 compared to Station 77.

Total richness was similar between stations in the Ponar samples with 12 and 13 taxa at Stations 77 and 78, respectively (Table 3-81). The only EPT taxon was observed at Station 78. Oligochaeta was the dominant taxon at Station 77 while Oligochaeta and *Cricotopus bicinctus*

were equally abundant at Station 78. As with the HD samples, total density was 42 times higher at Station 78 due to the abundance of tolerant taxa (Table 3-1).

No chironomid head capsule deformities were observed at Station 78. However, the number of deformed specimens observed in both the HD and Ponar samples from Station 77 were the highest observed for each sample type in 2008 (Tables 3-62 and 3-63). Although in both cases the sample size was somewhat small, the incidence of deformities in *Chironomus* was 24 to 26 percent, which is substantially higher than published baseline values for that taxon in the Great Lakes (Dermott 1991, Hudson and Ciborowski 1996a, and Burt et al. 2003). Based on the abundance of tolerant taxa and the incidence of deformities at Station 77, the Higgins Creek stations appear to be moderately highly stressed.

3.3.5.5 Des Plaines River

The HD and Ponar samples from the eight Des Plaines River stations (Stations 13, 17, 19, 20, 22, 23, 29, and 91) yielded 78 total taxa and 14 EPT taxa (Tables 3-82 and 3-83). These were the second highest richness values observed among the waterways sampled in 2008. In the HDs, 66 total taxa and 14 EPT taxa were collected. HD total taxa richness ranged from 17 taxa at downstream Station 91 to 34 taxa upstream at Station 17 (Table 3-82). Total richness was variable among the stations without any longitudinal trends. Likewise, there was no apparent trend with EPT richness, which ranged from nine taxa at Stations 13 and 17 to two taxa at Station 23.

The tolerant taxon *Oligochaeta* was abundant at Stations 20 and 23 in the HD samples. At the remaining six stations (Stations 13, 17, 19, 22, 29 and 91) relatively intolerant EPT taxa such as *Baetis intercalaris*, *Stenacron*, *Cheumatopsyche*, and *Ceratopsyche morosa* as well as Tanytarsini midges were generally more abundant. *Cheumatopsyche* was the first or second most abundant taxon among these six stations. Total density varied greatly, particularly among the four downstream stations. Density was lowest at Station 23, intermediate at Stations 13, 17, 19, and 20, and highest at Stations 22, 29, and 91.

In the Ponar samples, 49 total taxa and six EPT taxa were observed. Ponar total richness was highest at Station 91 with 24 taxa and lowest at Station 23 with five taxa (Table 3-83). EPT richness was also highest at Station 91 with three taxa while one or two EPT taxa were observed at Stations 13, 17, 19, 22, and 29, and none were collected at Stations 20 and 23. *Oligochaeta* was the dominant taxon at seven of the eight stations where it composed 40 to 93 percent of the total density. At Station 22, the one exception, *Corbicula fluminea*, *Oligochaeta*, and *Turbellaria* combined for the majority of the total density. Ponar total density was not as variable as HD total density ranging from approximately 3,500/m² to 9,600/m². With the exception of Stations 22 and 91, the relative abundance of the tolerant taxa *Oligochaeta* appeared to drive the total densities at most stations.

Three specimens in the Ponar samples taken from Stations 17 and 23 exhibited head capsule deformities (Table 3-63). In both cases the total incidence was below published background levels (Burt et al. 2003).

Results of the Des Plaines River benthic macroinvertebrate sampling were mixed. Except for Station 23, no other station consistently exhibited results that indicated more or less environmental disturbance. For example, Station 91 had the lowest total richness and slightly lower EPT richness among the HD samples but posted the highest values for both measures in the Ponar samples. In contrast, Station 29 had richness values that were among the highest for the HD samples but was among the lowest for both total and EPT richness in the Ponars. Therefore, it appears that the benthic community at all the stations is affected by environmental perturbation in varying degrees of severity and/or types of disturbance. Overall, Station 23 was among the lowest in total and EPT richness and highest in tolerant taxa relative abundance (Table 3-1) in both sample types. This suggests that the benthic community at Station 23 is relatively more stressed compared to the remaining seven stations, which exhibit results of being slightly to moderately stressed depending sample type.

3.4 Inter-Year Comparisons: 2006 - 2008

Of the 46 stations sampled during 2006, 2007, and 2008, 17 stations in 10 different waterways were sampled all three years. Station 1 in Salt Creek was sampled in 2006 and 2007 only. In an effort to analyze for trends and gauge variability within these systems, comparisons between the three years by sample type and station are summarized in the following sections. Differences between years could be the result of changes in flow conditions, seasonality, changes in the amount and type of stressors, or natural variability. However, for the purposes of these studies, no attempt was made to ascertain a specific cause.

3.4.1 Calumet Watershed

The same three stations in the Calumet watershed were surveyed during 2003 and 2004: Station 55 in the Calumet River, Station 76 in the Little Calumet River, and Station 59 in the Cal-Sag (Tables 2-1, 2-2, and 2-3).

3.4.1.1 Calumet River

The HD results from Station 55 varied among the three years (Table 3-84). Total richness was similar in 2006 and 2008 but somewhat lower in 2007. EPT richness was low among the three years ranging from zero in 2006 to one taxon in both 2007 and 2008. Total density was lowest in 2006, considerably higher in 2007, and intermediate in 2008. In all cases, density was driven by *Dreissena* spp. Although the more recently introduced *D. bugensis* was overwhelmingly dominant in 2006 and 2007, *D. bugensis* density decreased substantially in 2008 while density of the more established exotic *D. polymorpha* increased.

Total richness in the Ponars was noticeably variable among three years ranging from seven taxa in 2007 to 20 taxa in 2008 (Table 3-85). The only EPT taxa observed in the Ponars were a mayfly taxon and a caddisfly taxon both collected in 2007. Unlike the HD samples, Ponar total density was similar among years. However, Oligochaeta was the dominant taxon in 2006 and 2007 while *Dreissena* spp. were the dominant taxa in 2008. While *D. bugensis* density was similar among years, like the HDs, *D. polymorpha* Ponar density increased substantially in 2008.

Chironomid head capsule deformities were not observed in either the HD or Ponar samples during the three years. However, in terms of density, tolerant taxa were generally more abundant in 2006 and 2007 (Table 3-1).

3.4.1.2 Little Calumet River (LCR)

Results from the HD sampling at Station 76 were somewhat comparable among the three years. (Table 3-86). Total taxa richness ranged from 19 taxa in 2007 to 26 taxa in 2008. EPT richness was low all three years ranging from two taxa in 2006 to one taxon in both 2007 and 2008. *Hydra* was the most abundant taxon all three years. In addition, the tolerant taxa *Dicrotendipes lucifer* and *D. simpsoni* were relatively common each year. The increased abundance of *Dreissena bugensis* in 2007 contributed to the highest density observed among the three years. In comparison to the HDs, the Ponar results were generally more similar among the three years (Table 3-87). Total taxa richness differed by only three taxa and EPT richness was zero all three years. Oligochaeta was clearly the dominant taxon during 2006 to 2008 while total density was similar, particularly in 2006 and 2008.

Like the Calumet River, the density of *Dreissena polymorpha* exhibited a marked increase in the LCR HD and Ponar samples during 2008 while *D. bugensis* decreased.

Chironomidae head capsule deformities were observed in the Ponar samples all three years (3-6, 3-33, and 3-63) and in the 2008 HD samples (Table 3-62). However, incidence was generally low among years and sample types, except 2006 when the number of deformed specimens at Station 76 was highest observed in the HD samples.

3.4.1.3 Calumet-Sag Channel (Cal-Sag)

In terms of taxa richness, the Cal-Sag HD samples exhibited few changes between 2006 and 2008 (Table 3-88). Although higher in 2008, total taxa and EPT richness were similar among years. Oligochaeta and *Dicrotendipes lucifer* were the most abundant taxa all three years. Although total density was highest in 2008, density was also reasonably similar among years. As with the other Calumet waterways, *Dreissena polymorpha* HD density increased notably in 2008 while *D. bugensis* density decreased.

Like the HDs, the Cal-Sag Ponar results were reasonably similar among years. Total taxa richness was somewhat higher in 2007 but very similar between 2006 and 2008 while EPT richness was zero each year (Table 3-89). Total density fluctuated among years largely due to Oligochaeta abundance, which was the dominant taxon all three years.

Chironomidae deformities were observed in the HD samples in 2008 (Table 3-62) and Ponar samples during both 2007 and 2008 (Tables 3-33 and 3-63) but were not observed in either sample type during 2006. While the number of deformities was generally low in the 2008 HD samples, taxa specific incidence was elevated above background levels in both the 2007 and 2008 Ponar samples.

3.4.2 North Branch Chicago River Watershed

The same three stations in the NBCR Watershed were sampled during 2006 to 2008: Station 36 in the NSC and Stations 96 and 46 in the NBCR (Tables 2-1, 2-2 and 2-3).

3.4.2.1 North Shore Channel (NSC)

HD results from Station 36 were somewhat similar among the years 2006, 2007, and 2008. Total taxa richness was nearly identical between 2006 and 2007 with 20 and 21 taxa but slightly lower in 2008 with 16 taxa (Table 3-90). No EPT taxa were observed during the three years. In addition, *Oligochaeta* and *Glyptotendipes* were the most abundant taxa each year. However, density varied substantially among years with the 2007 density being seven and three times higher than 2006 and 2008, respectively.

Like the HDs, the results from the Ponar sampling were somewhat similar among years. Total richness was slightly lower in 2006 compared to 2007 and 2008 while again, no EPT taxa were observed during any year (Table 3-90). Although *Oligochaeta* was roughly four times higher in 2006, the taxon accounted for more than 90 percent of the total density all three years. As such, total density mirrored the changes in *Oligochaeta* density.

Chironomid head capsule deformities were observed in the Ponar samples during 2006 and 2008 (Tables 3-6 and 3-63) and in the HD samples during 2007 and 2008 (Tables 3-32 and 3-62) at Station 36. The number of deformed specimens was generally low except in the 2008 Ponar samples when taxa specific incidence was clearly elevated beyond background conditions.

3.4.2.2 North Branch of the Chicago River (NBCR)

In terms of total and EPT taxa richness, the HD results from Station 96 were similar between 2006 and 2007 but noticeably lower in 2008 primarily due to fewer caddisfly and midge taxa that year (Table 3-92). Although total density increased consecutively each year, due in part to the abundance of the highly tolerant taxon *Ferrissia*, density was rather similar among years. In contrast, the abundance of major taxa shifted appreciably over the three years. In 2006, *Gammarus* and *Cheumatopsyche* were the most abundant taxa making up just less than 50 percent of the total density. In 2007, *Caecidotea*, *Cheumatopsyche*, and *Ferrissia* accounted for over 50 percent of the total density while, in 2008, *Ferrissia* alone made up 80 percent of the total density.

Ponar total and EPT richness at Station 96 was similar between 2006 and 2008 but noticeably lower in 2007 (Table 3-93). Intolerant EPT and Tanytarsini taxa were absent in 2007 and represented by low numbers in both 2006 and 2008. However, total density was similar among years and *Oligochaeta* was the dominant taxon each year.

Chironomid deformities were observed in the 2006 and 2008 Ponar samples from Station 96 (Table 3-6 and 3-63). However, in both cases the number of deformed specimens was low and/or incidence was within expected range of background conditions.

The net rise in density of the tolerant taxon *Ferrissia* combined with the decrease of intolerant taxa (*Cheumatopsyche*) in the HD samples may be indicative of increasing environmental stress at Station 96. However, this trend was not supported by either the chironomid deformity or Ponar results.

Results from Station 46 were somewhat more consistent among years compared to Station 96 particularly between 2007 and 2008. Total HD richness was similar among all three years with total richness differing by no more than four taxa and being identical between 2007 and 2008 (Table 3-92). No EPT taxa were observed during any of the years. Density was elevated in 2006 but similar between 2007 and 2008. The higher density observed in 2006 was almost entirely due to the abundance of *Oligochaeta*, which made up the majority of total density each year. In addition to *Oligochaeta*, *Turbellaria* was also abundant in 2007 and 2008 but noticeably less so in 2006.

The 2006 to 2008 Ponar richness results at Station 46 were similarly low with four to eight total taxa and no EPT among the three years (Table 3-93). Although total density was markedly different among years in that 2007 and 2008 were substantially higher than 2006, composition was virtually unchanged with *Oligochaeta* accounting for nearly 100 percent of the total density each year.

Chironomid head capsule deformities at Station 46 were only observed in the 2006 and 2008 HD samples (Tables 3-13 and 3-62). However, in both cases, the levels of incidence were generally low.

3.4.3 South Branch Chicago River and Chicago Sanitary and Ship Canal Watershed

Three stations were sampled in the South Branch Chicago River and Chicago Sanitary and Ship Canal watershed (SBCR and CSSC, respectively) during 2006 to 2008: Stations 75, 41, and 92 all in the CSSC (Tables 2-1, 2-2, and 2-3).

The HD sampling at the three CSSC stations exhibited some differences during 2006 to 2008. However, few consistent annual trends were evident among the three stations. HD total and EPT richness were generally similar among years at each station (Table 3-94). *Oligochaeta* was the most abundant taxon two of three years at Station 75 and all three years at Station 41 while dominance at Station 92 varied among years between *Hydra*, *Turbellaria*, and *Dicrotendipes lucifer*. Density was similar among all three years at Stations 75 and 92 and between 2007 and 2008 at Station 41. At Station 41, due to a substantial increase in *Oligochaeta* abundance, density in 2006 was approximately double compared to 2007 and 2008.

Similar to the other watersheds, the Ponar data collected from the three CSSC stations during 2006 to 2008 exhibited a lesser degree of variability compared to the HD data (Table 3-95). One notable exception includes the 2008 total richness from Station 92 which was three to five times higher compared to 2006 and 2007. In addition, the only EPT taxa observed at that station were collected in 2008. Another exception was the 2007 total density at Station 41 which was considerably higher than 2006 and 2008 due to a substantial increase in *Oligochaeta* abundance.

Chironomid head capsule deformities were observed in HD and/or Ponar samples at all three stations during 2006 to 2008 but incidence was generally low. However, at Station 41 in the 2006 HD samples, the number of deformed specimens was the highest observed that year while in 2008 incidence also appeared to be elevated (Tables 3-13 and 3-62). Likewise, incidence was elevated in the 2006 HDs and 2008 Ponars from Station 92 (Tables 3-13 and 3-63).

3.4.4 Des Plaines River Watershed

Seven stations in the Des Plaines River watershed were sampled during 2006, 2007, and 2008: Station 64 in the West Branch of the DuPage River, Stations 18 and 3 in Salt Creek, Station 78 in Higgins Creek, and Stations 13, 22, and 91 in the Des Plaines River (Tables 2-1, 2-2, and 2-3). Station 1 in Salt Creek was sampled only in 2006 and 2007.

3.4.4.1 West Branch of the DuPage River (WBDPR)

The Station 64 HD total richness was noticeably higher and EPT richness was slightly higher in 2006 and 2008 compared to 2007. Conversely, total density was highest in 2007 but no consistent trends in terms of individual taxa abundance or total density were apparent.

Ponar total and EPT richness as well as total density were very similar in 2007 and 2008 but noticeably lower in 2006 (Table 3-97). In contrast *Oligochaeta* was the most abundant taxon collected in 2006 and 2008 but was absent in 2007.

Chironomid head capsule deformities were observed in the 2006 Ponar samples (Table 3-6) and in the 2006 and 2008 HD samples at Station 64 (Tables 3-13 and 3-62). Of these, the deformities observed in the 2006 Ponar samples appear to be elevated above background conditions. Despite, the relatively small sample size, seven of 24 *Chironomus* exhibited deformities resulting in a taxa specific incidence level of 29.2 percent and a total incidence of 11.7 percent.

3.4.4.2 Salt Creek

The HD results from Stations SC1, 18, and SC3 on Salt Creek exhibited few annual trends between study years. Total and EPT taxa richness was rather similar between 2006 and 2007 at Station SC1 (Table 3-98). In contrast, total richness was more or less variable between 2006 and 2008 at Stations 18 and SC3. EPT richness was similar all three years at Station 18 but substantially higher in 2008 at Station SC3. The 14 EPT taxa from the 2008 Station SC3 HD samples was twice as many as any of these Salt Creek stations in the three years. At Station SC1, *Polypedilum* spp. were the most abundant taxa both years. Likewise, *Cheumatopsyche* and *Polypedilum flavum* were the most abundant taxa each year at Station SC3. At Station 18, *Oligochaeta* was the most abundant taxon in 2006 whereas *Cheumatopsyche* was most abundant in 2007 and 2008. The only consistent trend observed was elevated total density in 2006 compared to subsequent years. This was most evident at Stations SC1 and 18 as the difference in total density among years at each station decreased from upstream to downstream.

With the exception of total taxa at Station SC1, Ponar total and EPT taxa richness was generally similar among years. Conversely, at Station SC1, total density was variable among years. In

terms of individual taxa abundance, tolerant taxa were the most abundant at Station SC1 in 2006 (*Dicrotendipes fumidus* and *Polypedilum illinoense*) and Stations 18 and SC3 during both 2006 and 2008 (Oligochaeta). However, in 2007, the relatively intolerant *Cladotanytarsus mancus* was the most abundant taxon at all three stations.

Chironomid head capsule deformities were observed at Station SC1 in 2006 and 2007 (Tables 3-13, 3-32, and 3-33) and at Station 18 in 2007 and 2008 (Tables 3-32 and 3-62). However, in all cases, the incidence of deformities was less than expected background levels.

3.4.4.3 Higgins Creek

Total taxa richness in the HD samples was slightly higher in 2006 and 2007 compared to 2008 while EPT taxa were rare all three years (Table 3-100). *Caecidotea* and *Cricotopus bicinctus* were collectively the dominant taxa all three years. Due in large part to the abundance of these taxa, total density was substantially higher in 2007 and 2008.

In terms of total and EPT richness in the Ponars, 2006 and 2008 were rather similar whereas total richness was clearly higher in 2007 (Table 3-101). Conversely, species composition and total density exhibited notable shifts between 2006 and 2008. As Oligochaeta density increased substantially each year, the relative abundance of *Cricotopus bicinctus* decreased, despite consecutive growth in density as well. This resulted in a notable increase in total density from 2006 to 2008.

Chironomid deformities were observed in both the HD and Ponar samples during 2007 (Tables 3-32 and 3-33). However, in both cases, the levels of incidence were generally low.

3.4.4.4 Des Plaines River

HD samples were collected at Stations 13 and 91 during 2006, 2007, and 2008 whereas HD samples were collected at Station 22 only in 2006 and 2008. Ponar samples were collected all three years at each station. Results were largely mixed among the years for both sample types and exhibited few notable trends.

HD results from Station 13 were inconsistent among the three study years. Total richness was similar in 2006 and 2007 while EPT richness identical in 2006 and 2008 (Table 3-102). Total density decreased more or less consecutively from 2006 to 2008 due in part to the decrease in abundance of several taxa including Oligochaeta, *Maccaffertium integrum*, *Polypedilum flavum*, and *Rheotanytarsus* among others. In contrast, *Cheumatopsyche* was consistently among the most abundant taxa each year.

In the Station 13 Ponars, total and EPT richness were highest in 2006 and similarly lower in 2007 through 2008 (Table 3-103). Oligochaeta was the dominant taxon during both 2006 and 2008 while *Cheumatopsyche* and *Cladotanytarsus mancus* were the most abundant taxa in 2007. Density decreased consecutively among years in large part due to a decrease in abundance of Oligochaeta compared to 2006.

At Station 22, total richness was decreased noticeably between years while EPT richness was similar (Table 3-102). In contrast, total density increased substantially between years primarily due to an increase in abundance of the EPT taxa *Cheumatopsyche* and *Ceratopsyche morosa*. *Cheumatopsyche* was the most abundant taxon in both 2006 and 2008.

As with Station 13, Ponar total taxa richness was highest in 2006 and lowest in 2007 at Station 22 (Table 3-103). EPT richness was similar among the three years. *Corbicula fluminea* was the most abundant taxon each year followed by Oligochaeta. Total density was noticeably higher in 2008 largely due to increased abundance of Turbellaria, Oligochaeta, *Polypedilum scalaenum* and *C. fluminea*.

At Station 91, total and EPT richness in the HD samples was highest in 2007 and similar between 2006 and 2008 (Table 3-102). Although slightly higher in 2008, total density was generally similar among years. *Polypedilum flavum* was the most abundant taxon each year while *Cheumatopsyche*, *Hydropsyche simulans*, *Rheotanytarsus*, and Turbellaria were also abundant in one or more years.

In the Station 91 Ponars, total richness was similar and EPT richness remained unchanged between 2006 and 2007 but increased more or less in 2008 (Table 3-103). Total density in 2007 was seven to eight times higher than in 2006 and 2008 due almost entirely to a substantial increase in Oligochaeta abundance. Oligochaeta was the dominant taxon in 2006 and 2007 representing more than 80 percent of the total density. In 2008, Oligochaeta density exhibited a 12-fold decrease compared to 2007 while *Polypedilum flavum* increased in relative abundance from zero in 2007 to 22 percent in 2008.

Chironomid head capsule deformities were absent from the vast majority of samples collected during the 2006 to 2008 time period. The only chironomid deformities among the three Des Plaines River stations and three years of study were observed at Station 91 from the 2007 Ponar samples. Of the 100 *Chironomus* examined, five percent exhibited deformities, which is greater than recorded background levels in the Great Lakes. Although the occurrence of mentum deformities at Station 91 in 2007 also coincides with a dramatic increase in abundance of the highly tolerant taxon Oligochaeta, it is difficult to determine if the two events are linked.

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FIGURES

Figure 2-1: Sampling stations for the MWRDGC benthic macroinvertebrate program.

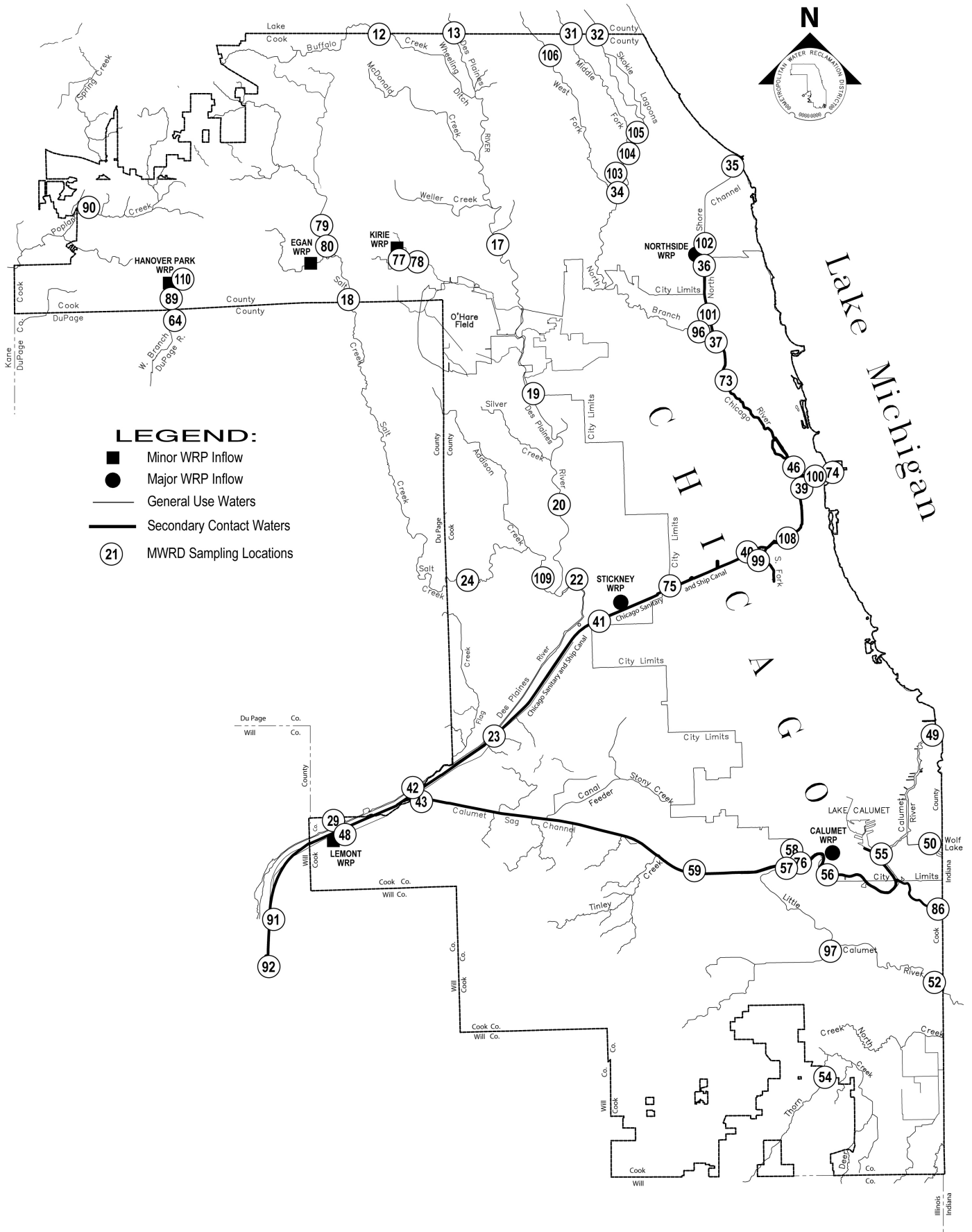


Figure 2-2. Hester-Dendy sampling array.

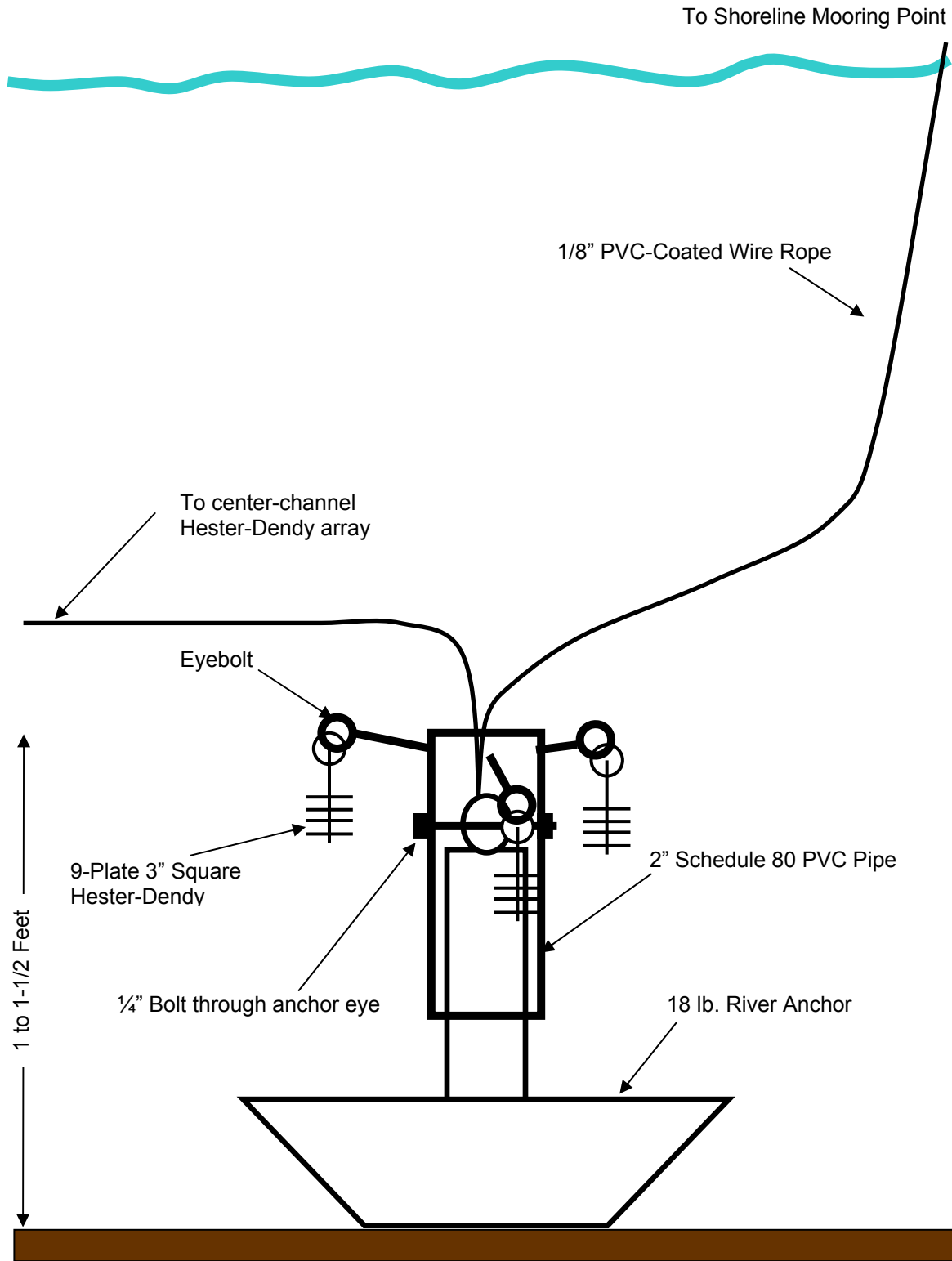
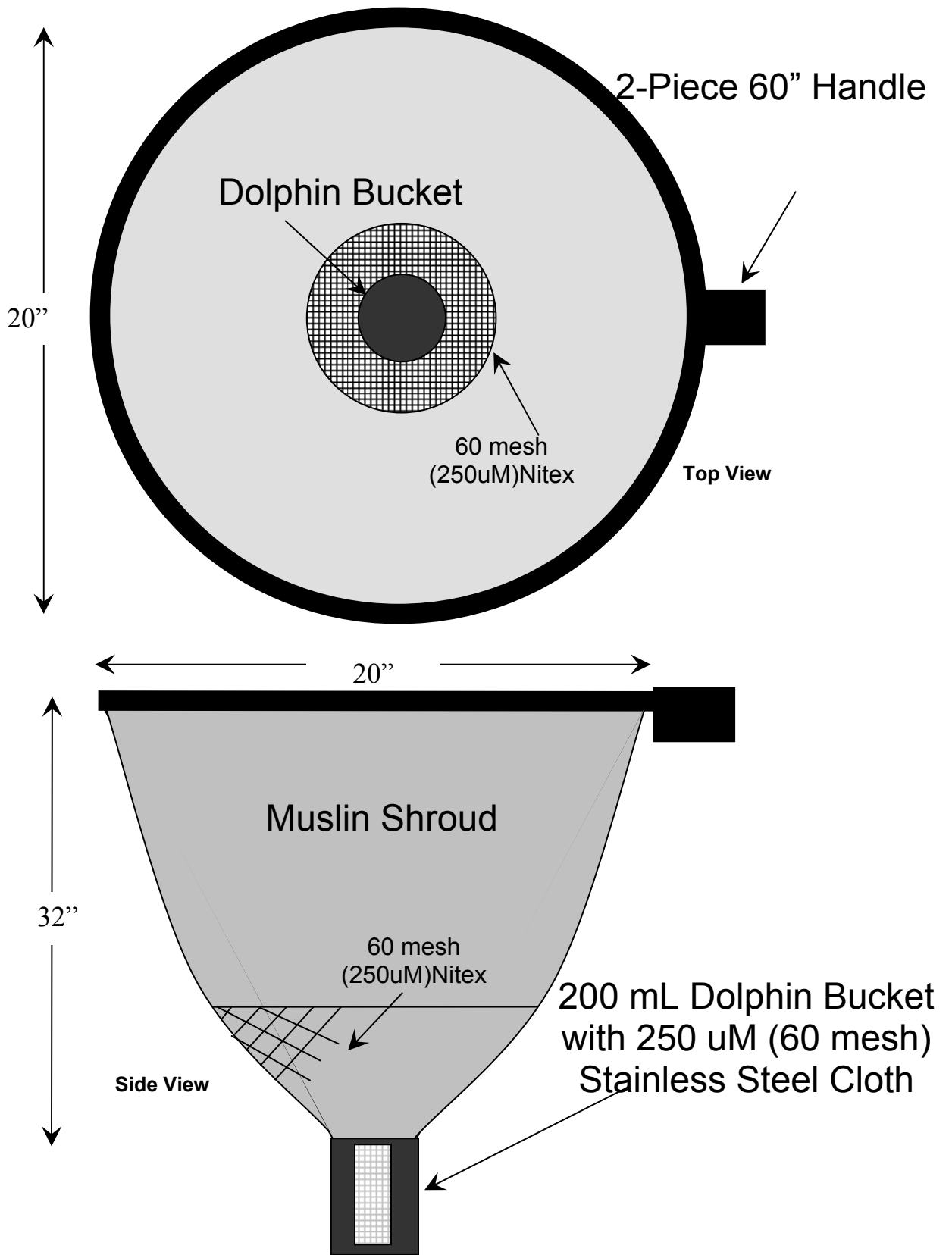


Figure 2-3. Dipnet for Hester-Dendy sampler retrieval.



TABLES

Table 2-1. Description of benthic macroinvertebrate monitoring stations sampled during 2006. Stations arranged by major watershed, upstream to downstream within each waterway. Highlighted stations were sampled each year 2006 - 2008.

Watershed	Sampling Station	Waterway	Lat./Lon.	Location Description
Calumet	55- 130th St.	Calumet River	41° 39' 33.9"N 87° 34' 20.1"W	50' upstream of 130th St. (40' from east bank and at center channel)
	76- Halsted St.	Little Calumet River	41° 39' 25.9"N 87° 38' 27.3"W	75' upstream of Halsted St. (15' from south bank and at center channel)
	59- Cicero Ave.	Calumet-Sag Channel	41° 59' 19.4"N 87° 44' 15.6"W	75' upstream of Cicero Ave. (20' from north bank and at center channel)
North Branch Chicago River	36- Touhy Ave.	N. Shore Channel	42° 00' 43.7"N 87° 42' 37.2"W	40' upstream of Touhy Ave. (15' from east bank and at center channel)
	96- Albany Ave.	N. Branch Chicago R.	41° 58' 21.7"N 87° 42' 44.3"W	250' downstream of Kimball Ave. (5' from south bank and at center channel)
	46- Grand Ave.	N. Branch Chicago R.	41° 53' 29.16"N 87° 38' 29.29"W	25' upstream of Grand Ave. (40' from east bank and at center channel)
SBCR and CSSC⁽¹⁾	74- Lake Shore Dr. (Outer Drive)	Chicago R.	41° 53' 19.9"N 87° 36' 48.6"W	50' upstream of Lake Shore Dr. (5' from north bank and at center channel)
	100- Wells St.	Chicago R.	41° 53' 16"N 87° 38' 1.2"W	40' upstream of Wells St. (30' from south bank and at center channel)
	39- Madison St.	S. Branch Chicago R.	41° 52' 55.4"N 87° 38' 18.7"W	40' upstream of Madison St. (30' from west bank and at center channel)
	108- Loomis St.	S. Branch Chicago R.	41° 50' 47.3"N 87° 39' 37.1"W	50' upstream of Loomis St. (10' from north bank and at center channel)
	99- Archer Ave.	S. Fork S. Branch Chicago River	41° 50' 18.4"N 87° 39' 50.5"W	30' upstream of Archer Ave. (20' from west bank and at center channel)

(1) SBCR=South Branch of the Chicago River, CSSC= Chicago Sanitary and Ship Canal

Table 2-1 - Continued

Watershed	Sampling Station	Waterway	Lat./Lon.	Location Description
SBCR and CSSC ⁽¹⁾	40- Damen Ave.	Chicago Sanitary and Ship Canal	41° 50' 31.9"N 87°40' 31.1"W	40' upstream of Damen Ave. (40' from north bank and at center channel)
	75- Cicero Ave.	Chicago Sanitary and Ship Canal	41° 49' 11.4"N 87° 44' 35.7"W	20' upstream of Cicero Ave. (70' from north bank and at center channel)
	41- Harlem Ave.	Chicago Sanitary and Ship Canal	41° 48' 4.01"N 87° 48' 5.64"W	50' upstream of Harlem Ave. (50' from south bank and at center channel)
	42- Rt. 83	Chicago Sanitary and Ship Canal	41° 42' 29.5"N 87° 55' 38.6"W	4000' upstream of Rt. 83 (5' from south bank and at center channel)
	92- Lockport (16th St.)	Chicago Sanitary and Ship Canal	41° 34' 59.2"N 88° 04' 8.7"W	75' upstream of former Division St. bridge location (20' from west bank and at center)
Des Plaines River	64- Lake St.	W Branch Du Page R.	41° 58'43.1"N 88° 07' 59.4"W	125' upstream of Lake St. (5' from west bank and at center channel)
	SC1- Busse Dam	Salt Cr.	42° 00.859' N 88° 00.083' W	300' downstream of Egan WRP outfall on west bank
	18- Devon Ave.	Salt Cr.	41° 59'34.6"N 87° 59' 42.9"W	200' feet upstream of Devon Ave. (10' from west bank and at center channel)
	SC3- Thorndale Ave.	Salt Cr.	41° 59.063' N 87° 59.424' W	120' upstream of Thorndale Avenue bridge on west bank
	78- Wille Road	Higgins Cr.	42° 01' 7.24"N 87° 56' 12.03"W	200' downstream of Wille Rd., inside entrance to culvert (5' from west bank and at center)
	13- Lake-Cook Rd.	Des Plaines R.	42° 09' 9.8"N 87° 54' 36.2"W	20' downstream of Lake-Cook Rd. (20' from west bank and at center channel)
	22- Ogden Ave.	Des Plaines R.	41° 49'14.4"N 87° 48' 38.2"W	200' upstream of Ogden Ave. (15' from east bank and at center channel)
	91- Material Service Rd.	Des Plaines R.	41° 35' 29.3"N 88° 4' 8.30"W	20-30' downstream of Material Service Rd. (20' from east bank and at center channel)

(1) SBCR=South Branch of the Chicago River, CSSC= Chicago Sanitary and Ship Canal

Table 2-2. Description of benthic macroinvertebrate monitoring stations sampled during 2007. Stations arranged by major watershed, upstream to downstream within each waterway. Highlighted stations were sampled every year during the 2006-2008 study period.

Watershed	Sampling Station	Waterway	Lat./Lon.	Location Description
Calumet River	49- Ewing Ave.	Calumet River	41° 43.683' N 87° 32.536' N	50' upstream of Ewing Ave. (30' from east bank and center channel)
	55- 130th St.	Calumet River	41° 39' 33.9"N 87° 34' 20.1"W	50' upstream of 130th St. (40' from east bank and center channel)
	50- 126th St.	Wolf Lake Drainage Channel	41° 39.878' N 87° 32.330' W	100' upstream of 126th St. (10' from east bank and center channel)
	86- Burnham Ave.	Grand Calumet River	41° 37.870' N 87° 32.352' W	200' west of Norfolk & Western Railroad bridge (10' from south bank and center channel)
	54- Joe Orr Rd.	Thorn Creek	41° 32.250' N 87° 37.522' W	200' upstream of Joe Orr Rd. (5' from east bank and center channel)
	97- 170th St.	Thorn Creek	41° 31.250' N 87° 37.522' W	150' upstream of 170th St. (10' from east bank and center channel)
	52- Wentworth Ave.	Little Calumet River	41° 35.131' N 87° 31.792' W	150' upstream of Wentworth Ave. (5' from north bank and center channel)
	57- Ashland Ave.	Little Calumet River	41° 39.099' N 87° 39.633' W	400' upstream of Ashland Ave. (15' from south bank and center channel)
	76- Halsted St.	Little Calumet River	41° 39' 25.9"N 87° 38' 27.3"W	20' upstream of Halsted St. (20' from south bank and center channel)
	56- Indiana Ave.	Little Calumet River	41° 39.136' N 87° 35.828' W	30' upstream of Indiana Ave. (20' from north bank and center channel)
	58- Ashland Ave.	Calumet-Sag Channel	41° 39.312' N 87° 39.640' W	200' upstream of Ashland Ave. (15' from south bank and center channel)
	59- Cicero Ave.	Calumet-Sag Channel	41° 359' 19.4"N 87° 44' 15.6"W	150' upstream of Cicero Ave. (30' from north bank and center channel)
	43- Route 83	Calumet-Sag Channel	41° 41.790' N 87° 56.480' W	1000' upstream of Route 83 (20' from south bank and center channel)

(1) CSSC= Chicago Sanitary and Ship Canal

Table 2-2 - Continued

Watershed	Sampling Station	Waterway	Lat./Lon.	Location Description
North Branch Chicago River	36- Touhy Ave.	N. Shore Channel	42° 00' 43.7"N 87° 42' 37.2"W	10' upstream of Touhy Ave. (15' from east bank and center channel)
	96- Albany Ave.	N. Branch Chicago R.	41° 58' 21.7"N 87° 42' 44.3"W	250' downstream of Kimball Ave. (5' from south bank and center channel)
	46- Grand Ave.	N. Branch Chicago R.	41° 53' 29.16" N 87° 38' 9.29" W	50' upstream of Grand Ave. (40' from east bank and center channel)
CSSC ⁽¹⁾	75- Cicero Ave.	Chicago Sanitary and Ship Canal	41° 49' 11.4"N 87° 44' 35.7"W	20' upstream of Cicero Ave. (70' from north bank and center channel)
	41- Harlem Ave.	Chicago Sanitary and Ship Canal	41° 48' 4.01"N 87° 48' 5.64"W	50' upstream of Harlem Ave. (50' from south bank and center channel)
	92- Lockport (16th St.)	Chicago Sanitary and Ship Canal	41° 34' 58"N 88° 04' 09.4"W	75' upstream of former Division St. bridge location (20' from west bank and center channel)
Des Plaines River	64- Lake St.	W Branch Du Page R.	41° 58'43.1"N 88° 07' 59.4"W	75' upstream of Lake St. (5' from west bank and center channel)
	SC1- Busse Dam	Salt Cr.	42° 00.859' N 88° 00.083' W	300' downstream of Egan WRP outfall on west bank
	18- Devon Ave.	Salt Cr.	41° 59'34.6"N 87° 59' 42.9"W	150' upstream of Devon Ave. (10' from west bank and center channel)
	SC3- Thorndale Ave.	Salt Cr.	41° 59.063' N 87° 59.424' W	120' upstream of Thorndale Avenue bridge on west bank
	78- Wille Road	Higgins Cr.	42° 01' 7.24"N 87° 56' 12.03"W	200' downstream of Wille Rd., inside entrance to culvert (5' from west bank and center channel)
	13- Lake-Cook Rd.	Des Plaines R.	42° 09' 9.8"N 87° 54' 36.2"W	20' downstream of Lake-Cook Rd. (20' from west bank and center channel)
	22- Ogden Ave.	Des Plaines R.	41° 49'14.4"N 87° 48' 38.2"W	50' upstream of Ogden Ave. (20' from east bank and center channel)
	91- Material Service Rd.	Des Plaines R.	41° 35' 29.3"N 88° 4' 8.30"W	20' upstream of Material Service Rd. (20' from east bank and center channel)

(1) CSSC= Chicago Sanitary and Ship Canal

Table 2-3. Description of benthic macroinvertebrate monitoring stations sampled during 2008. Stations arranged by major watershed, upstream to downstream within each waterway. Highlighted stations were sampled every year during the 2006-2008 study period.

Watershed	Sampling Station	Waterway	Lat./Lon.	Location Description
Calumet River	55- 130th St.	Calumet River	41° 39' 33.9"N 87° 34' 20.1"W	50' upstream of 130th St. (40' from east bank and center channel)
	76- Halsted St.	Little Calumet River	41° 39' 25.9"N 87° 38' 27.3"W	20' upstream of Halsted St. (20' from south bank and center channel)
	59- Cicero Ave.	Calumet-Sag Channel	41° 35' 19.4"N 87° 44' 15.6"W	150' upstream of Cicero Ave. (30' from north bank and center channel)
North Branch Chicago River	36- Touhy Ave.	N. Shore Channel	42° 00' 43.7"N 87° 42' 37.2"W	10' upstream of Touhy Ave. (15' from east bank and center channel)
	96- Albany Ave.	N. Branch Chicago R.	41° 58' 21.7"N 87° 42' 44.3"W	250' downstream of Kimball Ave. (5' from south bank and center channel)
	46- Grand Ave.	N. Branch Chicago R.	41° 53' 29.16" N 87° 38' 9.29" W	50' upstream of Grand Ave. (40' from east bank and center channel)
CSSC ⁽¹⁾	75- Cicero Ave.	Chicago Sanitary and Ship Canal	41° 49' 11.4"N 87° 44' 35.7"W	20' upstream of Cicero Ave. (70' from north bank and center channel)
	41- Harlem Ave.	Chicago Sanitary and Ship Canal	41° 48' 4.01"N 87° 48' 5.64"W	50' upstream of Harlem Ave. (50' from south bank and center channel)
	92- Lockport (16th St.)	Chicago Sanitary and Ship Canal	41° 34' 58"N 88° 04' 09.4"W	75' upstream of former Division St. bridge location (20' from west bank and center channel)
Fox River	90- Route 19	Poplar Cr.	42° 01.841 N 88° 14.516' W	5' upstream of Route 19 (3' from east bank and center channel)

(1) CSSC= Chicago Sanitary and Ship Canal

Table 2-3 - Continued

	Sampling Station	Waterway	Lat./Lon.	Location Description	
Des Plaines River	110	Springingsguth Rd.	W. Branch Du Page R.	42° 00.496' N 88° 07.145' W	At upstream side of Springingsguth Rd. (2' from south bank and center channel)
	89-	Walnut Ln.	W. Branch Du Page R.	41° 59.745' N 88° 08.179' W	100' upstream of Walnut Ln. (5' from east bank and center channel)
	64-	Lake St.	W Branch Du Page R.	41° 58'43.1"N 88° 07' 59.4"W	75' upstream of Lake St. (5' from west bank and center channel)
	12-	Lake-Cook Rd.	Buffalo Cr.	42° 09.110' N 87° 58.150' W	50' upstream of Lake -Cook Rd. (15' from east bank and center channel)
	79-	Higgins Rd.	Salt Cr.	42° 01.880' N 88° 00.679' W	200' upstream of Higgins Rd. (15' from east bank and center channel)
	80-	Arlington Heights Rd.	Salt Cr.	42° 00.736' N 88° 00.075' W	1200' upstream of Arlington Heights Rd. (10' from west bank and center channel)
	18-	Devon Ave.	Salt Cr.	41° 59'34.6"N 87° 59' 42.9"W	150' upstream of Devon Ave. (10' from west bank and center channel)
	SC3-	Thorndale Ave.	Salt Cr.	41° 59.063' N 87° 59.424' W	120' upstream of Thorndale Avenue bridge on west bank
	24-	Wolf Rd.	Salt Cr.	41° 49.548' N 87° 54.025' W	150' upstream of Wolf Rd. (10' from north bank and center channel)
	109-	Brookfield Ave.	Salt Cr.	41° 49.370' N 87° 50.494' W	200' downstream of Brookfield Ave. (5' from east bank and center channel)
	77-	Elmhurst Rd.	Higgins Cr.	42° 01.287' N 87° 56.436' W	30' upstream of Elmhurst Rd. (10' from south bank and center channel)

(1) CSSC= Chicago Sanitary and Ship Canal

Table 2-3 - Continued

	Sampling Station	Waterway	Lat./Lon.	Location Description
Des Plaines River	78- Wille Road	Higgins Cr.	42° 01' 7.24"N 87° 56' 12.03"W	200' downstream of Wille Rd., inside entrance to culvert (5' from west bank and center channel)
	13- Lake-Cook Rd.	Des Plaines R.	42° 09' 9.8"N 87° 54' 36.2"W	20' downstream of Lake-Cook Rd. (20' from west bank and center channel)
	17- Oakton St.	Des Plaines R.	42° 01.512'N 87° 52.494'W	100' downstream of Oakton St. (15' from west bank and center channel)
	19- Belmont Ave.	Des Plaines R.	41° 56.236'N 87° 50.975'W	200' downstream of Belmont Ave. (15' from west bank and center channel)
	20- Roosevelt Rd.	Des Plaines R.	41° 51.878'N 87° 49.639'W	200' upstream of Roosevelt Rd. (10' from east bank and center channel)
	22- Ogden Ave.	Des Plaines R.	41° 49'14.4"N 87° 48' 38.2"W	50' upstream of Ogden Ave. (20' from east bank and center channel)
	23- Willow Springs Rd.	Des Plaines R.	41° 44.135'N 87° 52.901'W	300' upstream of Willow Springs Rd. (20' from west bank and center channel)
	29- Stephen St.	Des Plaines R.	41° 40.899' N 88° 00.147' W	70' upstream of Stephen St. (15' from east bank and center channel)
	91- Material Service Rd.	Des Plaines R.	41° 35' 29.3"N 88° 4' 8.30"W	20' upstream of Material Service Rd. (20' from east bank and center channel)

(1) CSSC= Chicago Sanitary and Ship Canal

Table 3-1 (cont.)

Taxa	HD 2001	Ponar 2001	HD 2002	Ponar 2002	HD 2003	Ponar 2003	HD 2004	Ponar 2004	HD 2005	Ponar 2005	HD 2006	Ponar 2006	HD 2007	Ponar 2007	HD 2008	Ponar 2008	
Chironomidae (cont.)																	
<i>Paracladopelma</i>	X	X		X	X	X		X									X
<i>Paralauterborniella nigrohalteralis</i>										X							X
<i>Paratendipes</i>							X	X	X	X	X	X	X	X	X	X	X
<i>Phaenopsectra</i> ¹	X									X ¹			X ¹				
<i>Phaenopsectra flavipes</i>													X		X	X	X
<i>Phaenopsectra obediens</i>									X	X	X	X			X	X	X
<i>Phaenopsectra punctipes</i>					X				X	X	X						
<u><i>Polypedilum fallax</i> grp.</u>	X	X	X		X	X	X		X		X		X		X		
<i>Polypedilum flavum</i>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Polypedilum halterale</i> grp.	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
<u><i>Polypedilum illinoense</i></u>	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Polypedilum scalaenum</i> grp.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Pseudochironomus</i>							X	X	X	X	X	X		X	X	X	X
<i>Saetheria</i>						X		X									X
<i>Stenochironomus</i>	X	X	X		X		X	X	X	X	X		X		X	X	X
<i>Stictochironomus</i>						X	X	X		X	X	X	X		X	X	X
<i>Tribelos fuscicorne</i>					X	X	X	X					X				
<i>Tribelos jucundum</i>											X				X		
<i>Xenochironomus xenolabis</i>			X		X	X	X		X		X		X				
<i>Cladotanytarsus</i> ¹						X ¹											
<i>Cladotanytarsus mancus</i> grp.		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Cladotanytarsus vanderwulpi</i> grp.		X				X		X	X	X	X	X				X	X
<i>Micropsectra</i>			X				X	X								X	
<i>Paratanytarsus</i>	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Rheotanytarsus</i>	X	X	X		X	X	X	X	X		X	X	X		X	X	X
<i>Tanytarsus</i>			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Tanytarsus glabrescens</i> grp.				X	X				X		X		X	X	X	X	X

Table 3-1 (cont.)

Taxa	HD 2001	Ponar 2001	HD 2002	Ponar 2002	HD 2003	Ponar 2003	HD 2004	Ponar 2004	HD 2005	Ponar 2005	HD 2006	Ponar 2006	HD 2007	Ponar 2007	HD 2008	Ponar 2008
PELECYPODA (cont.)																
<i>Lasmigona complanata</i>		X						X								
TOTAL RICHNESS²	82	74	81	50	89	80	121	105	118	94	103	80	106	86	127	106
EPT RICHNESS²	19	8	18	5	20	7	20	11	20	10	16	8	17	10	19	13
TOTAL RICHNESS BY YEAR²	100		90		108		139		135		110		120		142	
EPT RICHNESS BY YEAR²	20		19		21		20		23		17		20		19	

¹Taxon unidentifiable beyond level indicated. Not counted as a discreet taxon for all samples and years combined. May be counted as a discreet taxon for individual samples, sample types, stations, or locations if it is the only representative of that taxonomic order, family, or genus.

²Data between sample years 2001 and 2005, 2002 and 2006, 2003 and 2007, and 2004 and 2008 are comparable. However, other inter-year comparisons are more problematic since most sampling stations differed.

TABLE 3-2. HESTER-DENDY DENSITIES AT SAMPLING STATION 55 WITHIN THE CALUMET RIVER, JUNE 2006.

TAXA	55 130TH ST.	
	#/m2	%
Oligochaeta	547.2	8.79
Gammarus	251.2	4.03
Echinogammarus ischusa	547.2	8.79
Orconectes	9.0	0.14
Cricotopus bicinctus grp.	9.0	0.14
Nanocladius distinctus	53.8	0.86
Rheocricotopus robacki	9.0	0.14
Glyptotendipes	9.0	0.14
Parachironomus	17.9	0.29
Polypedilum flavum	17.9	0.29
Rheotanytarsus	17.9	0.29
Ferrissia	9.0	0.14
Dreissena polymorpha	71.8	1.15
Dreissena bugensis	4,655.5	74.78
TOTAL BENTHOS	6,225.3	100.00
TOTAL TAXA RICHNESS	14	
EPT TAXA RICHNESS	0	

TABLE 3-3. PETITE PONAR DENSITIES AT SAMPLING STATION 55 WITHIN THE CALUMET RIVER, JUNE 2006.

TAXA	55 130TH ST.	
	#/m2	%
Oligochaeta	2,662.5	55.37
Echinogammarus ischusa	28.7	0.60
Procladius	7.2	0.15
Coelotanypus	7.2	0.15
Chironomus	14.4	0.30
Cryptochironomus	28.7	0.60
Dicrotendipes modestus	7.2	0.15
Glyptotendipes	7.2	0.15
Polypedilum halterale grp.	244.0	5.07
Polypedilum scalaenum grp.	35.9	0.75
Dreissena polymorpha	100.5	2.09
Dreissena bugensis	1,665.0	34.63
TOTAL BENTHOS	4,808.3	100.00
TOTAL TAXA RICHNESS	12	
EPT TAXA RICHNESS	0	

TABLE 3-4. HESTER-DENDY DENSITIES AT SAMPLING STATION 76 WITHIN THE LITTLE CALUMET RIVER, JULY 2006.

TAXA	76 HALSTED ST.	
	#/m2	%
Hydra	5,735.6	43.12
Oligochaeta	2,134.9	16.05
Caecidotea	12.6	0.09
Gammarus	376.7	2.83
Cyrenellus fraternus	48.4	0.36
Cheumatopsyche	12.6	0.09
Procladius	41.3	0.31
Ablabesmyia janta	23.3	0.18
Cricotopus bicinctus grp.	53.8	0.40
Cricotopus sylvestris grp.	71.8	0.54
Nanocladius distinctus	317.5	2.39
Dicrotendipes lucifer	1,566.2	11.78
Dicrotendipes simpsoni	2,398.6	18.03
Glyptotendipes	17.9	0.13
Polypedilum halterale grp.	17.9	0.13
Physa	17.9	0.13
Helisoma	17.9	0.13
Ferrissia	95.1	0.71
Corbicula fluminea	95.1	0.71
Dreissena bugensis	245.8	1.85
TOTAL BENTHOS	13,301.0	100.00
TOTAL TAXA RICHNESS	20	
EPT TAXA RICHNESS	2	

TABLE 3-5. PETITE PONAR DENSITIES AT SAMPLING STATION 76 WITHIN THE LITTLE CALUMET RIVER, JULY 2006.

TAXA	76 HALSTED ST.	
	#/m2	%
Oligochaeta	50,903.9	84.90
Caecidotea	107.6	0.18
Gammarus	2,145.8	3.58
Procladius	2,361.1	3.94
Ablabesmyia janta	50.2	0.08
Cricotopus bicinctus grp.	911.4	1.52
Cricotopus sylvestris grp.	1,449.7	2.42
Chironomus	50.2	0.08
Cryptochironomus	322.9	0.54
Dicrotendipes lucifer	660.3	1.10
Dicrotendipes simpsoni	107.6	0.18
Parachironomus	157.9	0.26
Polypedilum illinoense	50.2	0.08
Menetus	7.2	0.01
Ferrissia	21.5	0.04
Corbicula fluminea	473.7	0.79
Pisidium	78.9	0.13
Dreissena bugensis	100.5	0.17
TOTAL BENTHOS	59,960.8	100.00
TOTAL TAXA RICHNESS	18	
EPT TAXA RICHNESS	0	

Table 3-6. Incidence of head capsule deformities observed on Chironomidae from the 2006 Ponar samples collected from various waterways in the Chicago area.

Waterbody	Station	Taxa	Per Taxon			Per Station		
			# Examined	# Deformed	%	Total Midges Examined	Total Midges Deformed	%
LCR	76	Dicrotendipes lucifer	12	1	8.3	112	8	7.1
		Dicrotendipes simpsoni	2	1	50.0			
		Procladius	42	6	14.3			
NSC	36	Chironomus	6	1	16.7	10	1	10.0
NBCR	96	Dicrotendipes neomodestus	1	1	100.0	17	1	5.9
NBCR	46	Procladius	5	1	20.0	6	1	16.7
Chicago R.	74	Chironomus	2	1	50.0	6	1	16.7
SBCR	108	Dicrotendipes simpsoni	11	3	27.3	16	3	18.8
CSSC	40	Procladius	3	1	33.3	3	1	33.3
CSSC	41	Chironomus	7	3	42.9	8	3	37.5
WB DuPage R.	64	Chironomus	24	7	29.2	60	7	11.7

TABLE 3-7. HESTER-DENDY DENSITIES AT SAMPLING STATION 59 WITHIN THE CAL-SAG CHANNEL, JULY 2006.

TAXA	59 CICERO AVE.	
	#/m2	%
Hydra	26.9	1.27
Turbellaria	1.8	0.08
Oligochaeta	410.8	19.36
Caecidotea	16.1	0.76
Hyalella azteca	14.4	0.68
Gammarus	95.1	4.48
Argia	1.8	0.08
Cyrenellus fraternus	17.9	0.85
Procladius	59.2	2.79
Cricotopus sylvestris grp.	7.2	0.34
Nanocladius distinctus	118.4	5.58
Dicrotendipes neomodestus	16.1	0.76
Dicrotendipes lucifer	807.3	38.04
Dicrotendipes simpsoni	464.7	21.89
Glyptotendipes	7.2	0.34
Paratanytarsus	14.4	0.68
Helisoma	3.6	0.17
Ferrissia	10.8	0.51
Corbicula fluminea	19.7	0.93
Musculium	1.8	0.08
Dreissena bugensis	7.2	0.34
TOTAL BENTHOS	2,122.4	100.00
TOTAL TAXA RICHNESS	21	
EPT TAXA RICHNESS	1	

TABLE 3-8. PETITE PONAR DENSITIES AT SAMPLING STATION 59 WITHIN THE CAL-SAG CHANNEL, JULY 2006.

TAXA	59 CICERO AVE.	
	#/m2	%
Oligochaeta	9,710.0	93.63
Procladius	229.7	2.21
Thienemanniella xena	71.8	0.69
Dicrotendipes neomodestus	71.8	0.69
Dicrotendipes lucifer	71.8	0.69
Corbicula fluminea	28.7	0.28
Dreissena polymorpha	21.5	0.21
Dreissena bugensis	165.1	1.59
TOTAL BENTHOS	10,370.2	100.00
TOTAL TAXA RICHNESS	8	
EPT TAXA RICHNESS	0	

TABLE 3-9. HESTER-DENDY DENSITIES AT SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL, JULY 2006.

TAXA	36 TOUHY AVE.	
	#/m2	%
Hydra	1,279.2	10.09
Turbellaria	658.4	5.19
Oligochaeta	6,200.2	48.90
Ostracoda	1.8	0.01
Caecidotea	846.8	6.68
Hyalella azteca	540.0	4.26
Gammarus	93.3	0.74
Ablabesmyia janta	1.8	0.01
Cricotopus bicinctus grp.	1.8	0.01
Cricotopus sylvestris grp.	120.2	0.95
Nanocladius distinctus	152.5	1.20
Chironomus	61.0	0.48
Cryptotendipes	1.8	0.01
Dicrotendipes fumidus	10.8	0.08
Dicrotendipes lucifer	91.5	0.72
Dicrotendipes simpsoni	423.4	3.34
Glyptotendipes	1,919.6	15.14
Parachironomus	218.9	1.73
Helisoma	53.8	0.42
Ferrissia	1.8	0.01
TOTAL BENTHOS	12,678.5	100.00
TOTAL TAXA RICHNESS	20	
EPT TAXA RICHNESS	0	

TABLE 3-10. PETITE PONAR DENSITIES AT SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL, JULY 2006.

TAXA	36 TOUHY AVE.	
	#/m2	%
Oligochaeta	44,244.0	98.64
Caecidotea	71.8	0.16
Gammarus	35.9	0.08
Nanocladius distinctus	71.8	0.16
Chironomus	215.3	0.48
Dicrotendipes simpsoni	71.8	0.16
Glyptotendipes	71.8	0.16
Parachironomus	71.8	0.16
TOTAL BENTHOS	44,854.0	100.00
TOTAL TAXA RICHNESS	8	
EPT TAXA RICHNESS	0	

TABLE 3-11. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER, JULY 2006.

TAXA	96		46	
	ALBANY AVE.		GRAND AVE.	
	#/m2	%	#/m2	%
Hydra	3.6	0.13	448.5	4.94
Turbellaria	--	--	278.1	3.06
Oligochaeta	136.3	4.92	7,023.7	77.37
Helobdella	--	--	35.9	0.40
Caecidotea	235.0	8.48	35.9	0.40
Hyaella azteca	--	--	251.2	2.77
Gammarus	807.3	29.15	62.8	0.69
Orconectes immunis	1.8	0.06	--	--
Baetis intercalaris	10.8	0.39	--	--
Stenacron	120.2	4.34	--	--
Cheumatopsyche	550.8	19.88	--	--
Hydropsyche	9.0	0.32	--	--
Hydropsyche orris	7.2	0.26	--	--
Ceratopsyche morosa	7.2	0.26	--	--
Alotanypus	1.8	0.06	--	--
Procladius	7.2	0.26	--	--
Thienemannimyia grp.	59.2	2.14	--	--
Corynoneura	1.8	0.06	--	--
Thienemanniella xena	154.3	5.57	--	--
Cricotopus bicinctus grp.	41.3	1.49	--	--
Nanocladius distinctus	147.1	5.31	62.8	0.69
Rheocricotopus robacki	127.4	4.60	--	--
Chironomus	7.2	0.26	26.9	0.30
Cryptochironomus	5.4	0.19	--	--
Dicrotendipes neomodestus	--	--	9.0	0.10
Dicrotendipes lucifer	14.4	0.52	89.7	0.99
Dicrotendipes simpsoni	17.9	0.65	475.4	5.24
Glyptotendipes	12.6	0.45	170.4	1.88
Parachironomus	--	--	17.9	0.20
Phaenopsectra punctipes	1.8	0.06	17.9	0.20
Polypedilum fallax grp.	3.6	0.13	--	--
Polypedilum flavum	32.3	1.17	--	--
Polypedilum illinoense	5.4	0.19	17.9	0.20
Polypedilum scalaenum grp.	147.1	5.31	17.9	0.20
Stenochironomus	5.4	0.19	--	--
Paratanytarsus	30.5	1.10	--	--
Rheotanytarsus	--	--	9.0	0.10
Helisoma	--	--	17.9	0.20
Ferrissia	53.8	1.94	9.0	0.10
Musculium	3.6	0.13	--	--
TOTAL BENTHOS	2,770.0	100.00	9,077.9	100.00
TOTAL TAXA RICHNESS	33		20	
EPT TAXA RICHNESS	6		0	

TABLE 3-12. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER, JULY 2006.

TAXA	96		46	
	ALBANY AVE.		GRAND AVE.	
	#/m2	%	#/m2	%
Hydra	--	--	7.2	0.25
Turbellaria	28.7	2.52	14.4	0.50
Oligochaeta	588.5	51.57	2,777.4	97.48
Helobdella	14.4	1.26	--	--
Caecidotea	50.2	4.40	--	--
Gammarus	86.1	7.55	--	--
Orconectes	7.2	0.63	--	--
Stenacron	7.2	0.63	--	--
Cheumatopsyche	7.2	0.63	--	--
Procladius	28.7	2.52	35.9	1.26
Thienemannimyia grp.	7.2	0.63	--	--
Thienemanniella similis	7.2	0.63	--	--
Cricotopus bicinctus grp.	7.2	0.63	--	--
Cricotopus sylvestris grp.	--	--	7.2	0.25
Nanocladius distinctus	14.4	1.26	--	--
Dicrotendipes neomodestus	7.2	0.63	--	--
Polypedilum scalaenum grp.	35.9	3.14	--	--
Paratanytarsus	14.4	1.26	--	--
Amnicola	28.7	2.52	--	--
Ferrissia	28.7	2.52	--	--
Musculium	157.9	13.84	--	--
Pisidium	14.4	1.26	7.2	0.25
TOTAL BENTHOS	1,141.1	100.00	2,849.1	100.00
TOTAL TAXA RICHNESS	20		6	
EPT TAXA RICHNESS	2		0	

Table 3-13. Incidence of head capsule deformities observed on Chironomidae from the 2006 Hester-Dendy samples collected from various waterways in the Chicago area.

Waterbody	Station	Taxa	Per Taxon			Per Station		
			# Examined	# Deformed	%	Total Midges Examined	Total Midges Deformed	%
NBCR	46	Chironomus	3	2	66.7	102	3	2.9
		Dicrotendipes neomodestus	1	1	100.0			
Chicago R.	74	Dicrotendipes fumidus	10	1	10.0	73	2	2.7
		Dicrotendipes neomodestus	5	1	20.0			
Chicago R.	100	Parachironomus	3	1	33.3	149	1	0.7
SBCR	108	Dicrotendipes simpsoni	86	2	2.3	303	2	0.7
SBCR	39	Parachironomus	7	1	14.3	108	1	0.9
SFSBCR	99	Dicrotendipes simpsoni	29	1	3.4	33	1	3.0
CSSC	40	Dicrotendipes simpsoni	65	1	1.5	98	1	1.0
CSSC	41	Dicrotendipes simpsoni	95	8	8.4	137	9	6.6
		Chironomus	1	1	100.0			
CSSC	92	Dicrotendipes lucifer	95	6	6.3	201	7	3.5
		Dicrotendipes simpsoni	51	1	2.0			
Salt Cr.	1	Polypedilum illinoense	99	1	1.0	193	1	0.5
WB DuPage R.	64	Chironomus	5	2	40.0	192	5	2.6
		Glyptotendipes	44	2	4.5			
		Polypedilum flavum	65	1	1.5			

TABLE 3-14. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO RIVER, JULY 2006.

TAXA	74		100	
	LAKE SHORE DR.		WELLS ST.	
	#/m2	%	#/m2	%
Hydra	14.4	0.49	--	--
Turbellaria	5.4	0.18	48.4	1.44
Oligochaeta	233.2	7.90	2,481.2	73.72
Desserobdella phalera	--	--	1.8	0.05
Caecidotea	--	--	3.6	0.11
Hyalella azteca	5.4	0.18	64.6	1.92
Gammarus	86.1	2.92	--	--
Hydroptila	5.4	0.18	1.8	0.05
Procladius	1.8	0.06	1.8	0.05
Ablabesmyia mallochi	--	--	1.8	0.05
Thienemanniella lobapodema	--	--	5.4	0.16
Cricotopus bicinctus grp.	9.0	0.30	16.1	0.48
Heterotrissocladius	1.8	0.06	--	--
Nanocladius distinctus	10.8	0.36	30.5	0.91
Chironomus	3.6	0.12	12.6	0.37
Cladopelma	3.6	0.12	--	--
Dicrotendipes neomodestus	9.0	0.30	1.8	0.05
Dicrotendipes fumidus	17.9	0.61	3.6	0.11
Dicrotendipes lucifer	--	--	96.9	2.88
Dicrotendipes simpsoni	1.8	0.06	253.0	7.52
Endochironomus nigricans	--	--	5.4	0.16
Glyptotendipes	7.2	0.24	244.0	7.25
Microchironomus	1.8	0.06	--	--
Microtendipes	1.8	0.06	--	--
Parachironomus	9.0	0.30	10.8	0.32
Paratendipes	5.4	0.18	1.8	0.05
Phaenopsectra obediens	--	--	1.8	0.05
Polypedilum flavum	1.8	0.06	--	--
Polypedilum halterale grp.	35.9	1.22	--	--
Pseudochironomus	1.8	0.06	--	--
Paratanytarsus	1.8	0.06	5.4	0.16
Rheotanytarsus	1.8	0.06	--	--
Tanytarsus sepp	1.8	0.06	--	--
Xenochironomus xenolabis	1.8	0.06	1.8	0.05
Physa	--	--	16.1	0.48
Helisoma	16.1	0.55	39.5	1.17
Corbicula fluminea	1.8	0.06	--	--
Dreissena bugensis	2,454.3	83.11	14.4	0.43
TOTAL BENTHOS	2,953.0	100.00	3,365.6	100.00
TOTAL TAXA RICHNESS	30		26	
EPT TAXA RICHNESS	1		1	

TABLE 3-15. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO RIVER, JULY 2006.

TAXA	74		100	
	LAKE SHORE DR.		WELLS ST.	
	#/m2	%	#/m2	%
Oligochaeta	1,349.2	90.38	976.0	97.84
Procladius	14.4	0.96	--	--
Chironomus	14.4	0.96	--	--
Cryptochironomus	7.2	0.48	--	--
Paratendipes	--	--	7.2	0.72
Polypedilum halterale grp.	21.5	1.44	--	--
Polypedilum scalaenum grp.	--	--	7.2	0.72
Corbicula fluminea	--	--	7.2	0.72
Dreissena polymorpha	14.4	0.96	--	--
Dreissena bugensis	71.8	4.81	--	--
TOTAL BENTHOS	1,492.7	100.00	997.6	100.00
TOTAL TAXA RICHNESS	7		4	
EPT TAXA RICHNESS	0		0	

TABLE 3-16. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE SOUTH BRANCH CHICAGO RIVER, JULY-AUGUST 2006.

TAXA	39		108	
	MADISON ST.		LOOMIS ST.	
	#/m2	%	#/m2	%
Hydra	118.4	1.86	16.1	1.09
Turbellaria	71.8	1.13	48.4	3.26
Oligochaeta	5,129.2	80.69	557.9	37.52
Helobdella	9.0	0.14	--	--
Caecidotea	195.6	3.08	3.6	0.24
Hyalella azteca	166.8	2.62	28.7	1.93
Gammarus	--	--	1.8	0.12
Cyrrnellus fraternus	--	--	174.0	11.70
Procladius	1.8	0.03	3.6	0.24
Ablabesmyia janta	--	--	7.2	0.48
Cricotopus sylvestris grp.	1.8	0.03	--	--
Nanocladius distinctus	37.7	0.59	21.5	1.45
Dicrotendipes modestus	1.8	0.03	3.6	0.24
Dicrotendipes neomodestus	3.6	0.06	--	--
Dicrotendipes lucifer	75.3	1.19	247.6	16.65
Dicrotendipes simpsoni	82.5	1.30	233.2	15.68
Glyptotendipes	23.3	0.37	23.3	1.57
Parachironomus	14.4	0.23	--	--
Polypedilum illinoense	9.0	0.14	3.6	0.24
Xenochironomus xenolabis	21.5	0.34	5.4	0.36
Helisoma	287.0	4.52	35.9	2.41
Ferrissia	102.3	1.61	25.1	1.69
Corbicula fluminea	--	--	46.6	3.14
Dreissena polymorpha	1.8	0.03	--	--
Dreissena bugensis	1.8	0.03	--	--
TOTAL BENTHOS	6,356.3	100.00	1,487.3	100.00
TOTAL TAXA RICHNESS	21		19	
EPT TAXA RICHNESS	0		1	

TABLE 3-17. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE SOUTH BRANCH CHICAGO RIVER, JULY-AUGUST 2006.

TAXA	39		108	
	MADISON ST.		LOOMIS ST.	
	#/m2	%	#/m2	%
Oligochaeta	1,607.6	99.56	1,923.3	88.74
Procladius	7.2	0.44	78.9	3.64
Nanocladius distinctus	--	--	28.7	1.32
Dicrotendipes simpsoni	--	--	7.2	0.33
Corbicula fluminea	--	--	107.6	4.97
Pisidium	--	--	7.2	0.33
Dreissena polymorpha	--	--	7.2	0.33
Dreissena bugensis	--	--	7.2	0.33
TOTAL BENTHOS	1,614.7	100.00	2,167.3	100.00
TOTAL TAXA RICHNESS	2		8	
EPT TAXA RICHNESS	0		0	

TABLE 3-18. HESTER-DENDY DENSITIES AT SAMPLING STATION 99 WITHIN THE SOUTH FORK SOUTH BRANCH CHICAGO RIVER, AUGUST 2006.

TAXA	99 ARCHER AVE.	
	#/m2	%
Hydra	17.9	1.92
Turbellaria	17.9	1.92
Oligochaeta	161.5	17.24
Dicrotendipes lucifer	35.9	3.83
Dicrotendipes simpsoni	488.0	52.11
Glyptotendipes	17.9	1.92
Rheotanytarsus	17.9	1.92
Physa	53.8	5.75
Helisoma	125.6	13.41
TOTAL BENTHOS	936.5	100.00
TOTAL TAXA RICHNESS	9	
EPT TAXA RICHNESS	0	

TABLE 3-19. PETITE PONAR DENSITIES AT SAMPLING STATION 99 WITHIN THE SOUTH FORK SOUTH BRANCH CHICAGO RIVER, AUGUST 2006.

TAXA	99 ARCHER AVE.	
	#/m2	%
Oligochaeta	653.1	100.00
TOTAL BENTHOS	653.1	100.00
TOTAL TAXA RICHNESS	1	
EPT TAXA RICHNESS	0	

TABLE 3-20. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL, JULY-AUGUST 2006.

TAXA	40 DAMEN AVE.		75 CICERO AVE.		41 HARLEM AVE.		42 ROUTE 83		92 LOCKPORT	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	--	--	21.5	0.26	71.8	0.32	16.1	0.66	909.6	20.73
Turbellaria	17.9	1.43	1,282.7	15.58	3,408.7	15.24	188.4	7.75	895.2	20.40
Nemertea	--	--	--	--	--	--	--	--	1.8	0.04
Oligochaeta	672.8	53.50	6,054.9	73.55	13,500.2	60.34	1,573.4	64.72	688.9	15.70
Helobdella	--	--	5.4	0.07	--	--	--	--	--	--
Helobdella stagnalis	--	--	--	--	--	--	35.9	1.48	78.9	1.80
Mooreobdella microstoma	--	--	--	--	--	--	--	--	3.6	0.08
Ostracoda	--	--	9.0	0.11	26.9	0.12	--	--	--	--
Caecidotea	--	--	--	--	--	--	14.4	0.59	--	--
Hyalella azteca	100.5	7.99	39.5	0.48	1,605.7	7.18	9.0	0.37	206.3	4.70
Gammarus	--	--	5.4	0.07	--	--	--	--	340.9	7.77
Orconectes	1.8	0.14	--	--	--	--	--	--	--	--
Cyrenellus fraternus	193.8	15.41	--	--	125.6	0.56	253.0	10.41	39.5	0.90
Cheumatopsyche	--	--	--	--	--	--	--	--	1.8	0.04
Hydropsyche orris	--	--	--	--	--	--	3.6	0.15	--	--
Stenelmis crenata grp.	--	--	--	--	--	--	--	--	1.8	0.04
Procladius	5.4	0.43	5.4	0.07	--	--	--	--	--	--
Ablabesmyia janta	5.4	0.43	5.4	0.07	53.8	0.24	62.8	2.58	--	--
Ablabesmyia mallochi	--	--	--	--	--	--	--	--	86.1	1.96
Nanocladius distinctus	--	--	44.9	0.54	53.8	0.24	17.9	0.74	193.8	4.42
Chironomus	--	--	--	--	17.9	0.08	--	--	--	--
Dicrotendipes neomodestus	--	--	--	--	--	--	--	--	5.4	0.12
Dicrotendipes lucifer	75.3	5.99	238.6	2.90	852.2	3.81	68.2	2.80	543.6	12.39
Dicrotendipes simpsoni	175.8	13.98	502.3	6.10	2,386.1	10.67	116.6	4.80	296.0	6.75
Glyptotendipes	3.6	0.29	--	--	26.9	0.12	--	--	10.8	0.25
Stenochironomus	--	--	--	--	--	--	3.6	0.15	--	--
Xenochironomus xenolabis	--	--	--	--	26.9	0.12	3.6	0.15	5.4	0.12
Physa	--	--	9.0	0.11	--	--	--	--	5.4	0.12
Helisoma	3.6	0.29	9.0	0.11	44.9	0.20	25.1	1.03	1.8	0.04
Ferrissia	--	--	--	--	9.0	0.04	14.4	0.59	1.8	0.04
Corbicula fluminea	1.8	0.14	--	--	--	--	--	--	61.0	1.39
Eupera cubensis	--	--	--	--	161.5	0.72	25.1	1.03	9.0	0.20
TOTAL BENTHOS	1,257.6	100.00	8,232.9	100.00	22,371.7	100.00	2,430.9	100.00	4,388.2	100.00
TOTAL TAXA RICHNESS	12		14		16		17		23	
EPT TAXA RICHNESS	2		0		1		2		2	

TABLE 3-21. PETTIE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL, JULY-AUGUST 2006.

TAXA	40 DAMEN AVE.		75 CICERO AVE.		41 HARLEM AVE.		42 ROUTE 83		92 LOCKPORT	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Oligochaeta	846.8	97.52	3,703.1	99.61	1,055.0	94.23	3,416.1	100.00	32,273.3	98.75
Procladius	21.5	2.48	--	--	--	--	--	--	93.3	0.29
Cricotopus bicinctus grp.	--	--	--	--	7.2	0.64	--	--	--	--
Chironomus	--	--	--	--	50.2	4.49	--	--	--	--
Corbicula fluminea	--	--	14.4	0.39	7.2	0.64	--	--	265.5	0.81
Musculium	--	--	--	--	--	--	--	--	50.2	0.15
TOTAL BENTHOS	868.4	100.00	3,717.5	100.00	1,119.6	100.00	3,416.1	100.00	32,682.4	100.00
TOTAL TAXA RICHNESS	2		2		4		1		4	
EPT TAXA RICHNESS	0		0		0		0		0	

TABLE 3-22. HESTER-DENDY DENSITIES AT SAMPLING STATION 64 WITHIN THE WEST BRANCH DUPAGE RIVER, JUNE 2006.

TAXA	64 LAKE ST.	
	#/m2	%
Hydra	3.6	0.05
Turbellaria	224.3	3.39
Oligochaeta	1,300.7	19.68
Helobdella triserialis	5.4	0.08
Mooreobdella microstoma	1.8	0.03
Caecidotea	28.7	0.43
Baetis intercalaris	1.8	0.03
Argia	9.0	0.14
Cheumatopsyche	958.0	14.50
Hydroptila	1.8	0.03
Stenelmis	1.8	0.03
Procladius	10.8	0.16
Ablabesmyia janta	10.8	0.16
Thienemannimyia grp.	55.6	0.84
Cricotopus bicinctus grp.	314.0	4.75
Cricotopus sylvestris grp.	91.5	1.38
Nanocladius distinctus	306.8	4.64
Nanocladius crassicornus/rectinervis	93.3	1.41
Chironomus	91.5	1.38
Dicrotendipes modestus	50.2	0.76
Dicrotendipes neomodestus	59.2	0.90
Dicrotendipes simpsoni	95.1	1.44
Endochironomus nigricans	35.9	0.54
Glyptotendipes	647.6	9.80
Parachironomus	78.9	1.19
Polypedilum flavum	1,668.5	25.24
Polypedilum illinoense	10.8	0.16
Paratanytarsus	197.3	2.99
Tanytarsus	10.8	0.16
Simulium	17.9	0.27
Physa	1.8	0.03
Helisoma	224.3	3.39
TOTAL BENTHOS	6,609.3	100.00
TOTAL TAXA RICHNESS	32	
EPT TAXA RICHNESS	3	

TABLE 3-23. PETITE PONAR DENSITIES AT SAMPLING STATION 64 WITHIN THE WEST BRANCH DUPAGE RIVER, JUNE 2006.

TAXA	64 LAKE ST.	
	#/m2	%
Oligochaeta	222.5	32.29
Caecidotea	7.2	1.04
Procladius	21.5	3.12
Thienemanniella xena	14.4	2.08
Cricotopus tremulus grp.	7.2	1.04
Cricotopus bicinctus grp.	93.3	13.54
Chironomus	172.2	25.00
Cryptochironomus	50.2	7.29
Glyptotendipes	28.7	4.17
Polypedilum flavum	28.7	4.17
Polypedilum scalaenum grp.	14.4	2.08
Physa	7.2	1.04
Helisoma	14.4	2.08
Corbicula fluminea	7.2	1.04
TOTAL BENTHOS	689.0	100.00
TOTAL TAXA RICHNESS	14	
EPT TAXA RICHNESS	0	

TABLE 3-24. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN SALT CREEK, JUNE 2006.

TAXA	SC1		18		SC3	
	BUSSE DAM		DEVON AVE.		THORNDALE AVE.	
	#/m2	%	#/m2	%	#/m2	%
Hydra	17.9	0.11	64.6	0.30	62.8	0.42
Turbellaria	950.8	5.61	213.5	0.99	269.1	1.81
Plumatella	--	--	--	--	1.8	0.01
Oligochaeta	915.0	5.40	13,433.8	62.20	502.3	3.38
Helobdella triserialis	--	--	37.7	0.17	--	--
Ostracoda	35.9	0.21	39.5	0.18	--	--
Caecidotea	17.9	0.11	61.0	0.28	80.7	0.54
Orconectes	--	--	5.4	0.02	--	--
Baetis intercalaris	17.9	0.11	1.8	0.01	--	--
Tricorythodes	--	--	3.6	0.02	71.8	0.48
Caenis	--	--	1.8	0.01	--	--
Argia	35.9	0.21	3.6	0.02	17.9	0.12
Enallagma	--	--	10.8	0.05	--	--
Cyrnellus fraternus	17.9	0.11	--	--	--	--
Cheumatopsyche	789.4	4.66	726.6	3.36	4,861.9	32.69
Hydropsyche	--	--	--	--	9.0	0.06
Ceratopsyche morosa	--	--	--	--	53.8	0.36
Hydroptila	89.7	0.53	154.3	0.71	53.8	0.36
Nectopsyche	--	--	3.6	0.02	--	--
Dubiraphia	--	--	5.4	0.02	17.9	0.12
Stenelmis	--	--	7.2	0.03	35.9	0.24
Ceratopogonidae	--	--	3.6	0.02	--	--
Procladius	--	--	70.0	0.32	--	--
Ablabesmyia janta	--	--	87.9	0.41	98.7	0.66
Ablabesmyia mallochi	--	--	52.0	0.24	53.8	0.36
Thienemannimyia grp.	71.8	0.42	156.1	0.72	618.9	4.16
Thienemanniella xena	71.8	0.42	17.9	0.08	35.9	0.24
Thienemanniella similis	--	--	--	--	71.8	0.48
Cricotopus bicinctus grp.	2,134.9	12.59	276.3	1.28	71.8	0.48
Cricotopus sylvestris grp.	448.5	2.65	364.2	1.69	53.8	0.36
Nanocladius	--	--	--	--	206.3	1.39
Nanocladius distinctus	71.8	0.42	694.3	3.21	915.0	6.15
Rheocricotopus robacki	--	--	52.0	0.24	--	--
Chironomus	--	--	70.0	0.32	35.9	0.24
Cladopelma	--	--	52.0	0.24	--	--
Cryptochironomus	71.8	0.42	17.9	0.08	71.8	0.48
Dicrotendipes modestus	--	--	157.9	0.73	71.8	0.48
Dicrotendipes neomodestus	--	--	--	--	215.3	1.45
Dicrotendipes fumidus	2,475.8	14.60	52.0	0.24	--	--
Dicrotendipes simpsoni	--	--	156.1	0.72	287.0	1.93
Endochironomus nigricans	--	--	70.0	0.32	--	--
Glyptotendipes	376.7	2.22	983.1	4.55	565.1	3.80
Harnischia	--	--	52.0	0.24	--	--
Parachironomus	--	--	400.1	1.85	89.7	0.60
Phaenopsectra obediens	663.8	3.92	17.9	0.08	71.8	0.48
Polypedilum flavum	376.7	2.22	364.2	1.69	4,242.9	28.52
Polypedilum illinoense	7,032.7	41.48	1,135.6	5.26	574.1	3.86
Polypedilum scalaenum grp.	71.8	0.42	52.0	0.24	71.8	0.48
Cladotanytarsus mancus grp.	--	--	--	--	35.9	0.24
Paratanytarsus	71.8	0.42	959.8	4.44	107.6	0.72
Rheotanytarsus	--	--	--	--	53.8	0.36
Tanytarsus	--	--	70.0	0.32	125.6	0.84
Hemerodromia	--	--	3.6	0.02	--	--
Physa	17.9	0.11	1.8	0.01	--	--
Helisoma	71.8	0.42	172.2	0.80	17.9	0.12
Ferrissia	35.9	0.21	116.6	0.54	71.8	0.48
Corbicula fluminea	--	--	107.6	0.50	--	--
Musculium	--	--	35.9	0.17	--	--
TOTAL BENTHOS	16,953.7	100.00	21,596.7	100.00	14,874.4	100.00
TOTAL TAXA RICHNESS	26		49		39	
EPT TAXA RICHNESS	4		6		5	

TABLE 3-25. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN SALT CREEK, JUNE 2006.

TAXA	SC1		18		SC3	
	BUSSE DAM		DEVON AVE.		THORNDALE AVE.	
	#/m2	%	#/m2	%	#/m2	%
Hydra	71.8	0.17	--	--	--	--
Turbellaria	71.8	0.17	--	--	143.5	0.08
Oligochaeta	6,387.2	14.71	5,554.7	77.40	170,358.9	95.13
Helobdella triserialis	--	--	--	--	71.8	0.04
Ostracoda	--	--	--	--	71.8	0.04
Caecidotea	--	--	--	--	14.4	0.01
Tricorythodes	--	--	--	--	71.8	0.04
Cheumatopsyche	--	--	14.4	0.20	2,052.5	1.15
Hydroptila	143.5	0.33	--	--	143.5	0.08
Dubiraphia	--	--	43.1	0.60	71.8	0.04
Stenelmis	--	--	--	--	645.9	0.36
Procladius	--	--	21.5	0.30	--	--
Thienemanimyia grp.	--	--	7.2	0.10	21.5	0.01
Thienemanniella xena	179.4	0.41	--	--	143.5	0.08
Thienemanniella lobapodema	--	--	--	--	7.2	0.00
Cricotopus bicinctus grp.	2,942.4	6.78	35.9	0.50	43.1	0.02
Cricotopus sylvestris grp.	179.4	0.41	7.2	0.10	71.8	0.04
Nanocladius distinctus	--	--	--	--	7.2	0.00
Chironomus	430.6	0.99	35.9	0.50	--	--
Cladopelma	--	--	7.2	0.10	--	--
Cryptochironomus	179.4	0.41	423.4	5.90	638.7	0.36
Dicrotendipes modestus	--	--	7.2	0.10	7.2	0.00
Dicrotendipes neomodestus	--	--	--	--	7.2	0.00
Dicrotendipes fumidus	14,568.6	33.55	7.2	0.10	--	--
Glyptotendipes	--	--	7.2	0.10	--	--
Harnischia	--	--	28.7	0.40	--	--
Parachironomus	--	--	7.2	0.10	--	--
Phaenopsectra obediens	825.3	1.90	7.2	0.10	7.2	0.00
Polypedilum flavum	--	--	7.2	0.10	674.6	0.38
Polypedilum halterale grp.	--	--	50.2	0.70	445.0	0.25
Polypedilum illinoense	10,693.2	24.63	57.4	0.80	35.9	0.02
Polypedilum scalaenum grp.	538.2	1.24	78.9	1.10	509.5	0.28
Pseudochironomus	1,040.6	2.40	14.4	0.20	7.2	0.00
Stictochironomus	--	--	71.8	1.00	71.8	0.04
Cladotanytarsus mancus grp.	4,880.1	11.24	466.5	6.50	1,320.5	0.74
Paratanytarsus	--	--	28.7	0.40	--	--
Tanytarsus	--	--	--	--	315.8	0.18
Simulium	--	--	--	--	71.8	0.04
Physa	--	--	--	--	71.8	0.04
Helisoma	143.5	0.33	21.5	0.30	--	--
Ferrissia	--	--	7.2	0.10	358.8	0.20
Corbicula fluminea	143.5	0.33	150.7	2.10	602.8	0.34
Pisidium	--	--	7.2	0.10	--	--
TOTAL BENTHOS	43,418.6	100.00	7,176.6	100.00	179,085.7	100.00
TOTAL TAXA RICHNESS	17		28		32	
EPT TAXA RICHNESS	1		1		3	

TABLE 3-26. HESTER-DENDY DENSITIES AT SAMPLING STATION 78 WITHIN HIGGINS CREEK, JUNE 2006.

TAXA	78 WILLE RD.	
	#/m2	%
Hydra	17.9	0.29
Turbellaria	179.4	2.89
Oligochaeta	794.8	12.80
Helobdella triserialis	23.3	0.38
Mooreobdella microstoma	3.6	0.06
Caecidotea	1,026.2	16.53
Enallagma	5.4	0.09
Boyeria vinosa	5.4	0.09
Cricotopus tremulus grp.	55.6	0.90
Cricotopus bicinctus grp.	3,060.6	49.31
Cricotopus sylvestris grp.	482.6	7.77
Nanocladius distinctus	70.0	1.13
Nanocladius crassicornus/rectinervis	328.3	5.29
Chironomus	55.6	0.90
Dicrotendipes neomodestus	7.2	0.12
Parachironomus	48.4	0.78
Paratanytarsus	21.5	0.35
Physa	16.1	0.26
Ferrissia	5.4	0.09
TOTAL BENTHOS	6,207.4	100.00
TOTAL TAXA RICHNESS	19	
EPT TAXA RICHNESS	0	

TABLE 3-27. PETITE PONAR DENSITIES AT SAMPLING STATION 78 WITHIN HIGGINS CREEK, JUNE 2006.

TAXA	78 WILLE RD.	
	#/m2	%
Turbellaria	330.1	0.67
Oligochaeta	6,222.1	12.68
Mooreobdella microstoma	28.7	0.06
Caecidotea	2,956.8	6.02
Hydroptila	7.2	0.01
Thienemannimyia grp.	287.1	0.58
Cricotopus tremulus grp.	1,406.6	2.87
Cricotopus bicinctus grp.	34,555.5	70.39
Cricotopus sylvestris grp.	1,873.1	3.82
Nanocladius crassicornus/rectinervis	93.3	0.19
Chironomus	1,313.3	2.68
Physa	14.4	0.03
TOTAL BENTHOS	49,088.2	100.00
TOTAL TAXA RICHNESS	12	
EPT TAXA RICHNESS	1	

TABLE 3-28. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER, JUNE-JULY 2006.

TAXA	13		22		91	
	LAKE COOK RD.		OGDEN AVE.		MATERIAL SERVICE RD.	
	#/m2	%	#/m2	%	#/m2	%
Hydra	1.8	0.02	26.9	0.37	--	--
Turbellaria	57.4	0.54	98.7	1.37	421.6	3.56
Plumatella	1.8	0.02	--	--	3.6	0.03
Oligochaeta	563.3	5.34	1,279.2	17.73	242.2	2.05
Helobdella stagnalis	28.7	0.27	--	--	--	--
Caecidotea	--	--	12.6	0.17	--	--
Gammarus	105.8	1.00	244.0	3.38	17.9	0.15
Hydracarina	--	--	26.9	0.37	--	--
Baetis intercalaris	161.5	1.53	145.3	2.01	233.2	1.97
Leucrocota	35.9	0.34	--	--	--	--
Stenacron	--	--	35.9	0.50	--	--
Maccaffertium integrum	340.9	3.23	--	--	--	--
Tricorythodes	305.0	2.89	39.5	0.55	--	--
Argia	17.9	0.17	12.6	0.17	--	--
Enallagma	7.2	0.07	--	--	--	--
Cyrnellus fraternus	1.8	0.02	--	--	--	--
Cheumatopsyche	1,727.7	16.37	3,437.4	47.64	1,273.8	10.76
Hydropsyche	--	--	--	--	116.6	0.99
Hydropsyche betteni	--	--	10.8	0.15	--	--
Hydropsyche orris	--	--	--	--	322.9	2.73
Hydropsyche simulans	848.6	8.04	--	--	179.4	1.52
Hydropsyche bidens	287.0	2.72	17.9	0.25	--	--
Ceratopsyche morosa	--	--	84.3	1.17	331.9	2.80
Hydroptila	107.6	1.02	35.9	0.50	--	--
Dubiraphia	41.3	0.39	--	--	--	--
Macronychus glabratus	30.5	0.29	--	--	--	--
Procladius	--	--	3.6	0.05	--	--
Ablabesmyia janta	16.1	0.15	9.0	0.12	--	--
Thienemanniya grp.	206.3	1.96	53.8	0.75	44.9	0.38
Corynoneura	--	--	7.2	0.10	--	--
Thienemanniella xena	125.6	1.19	35.9	0.50	80.7	0.68
Thienemanniella similis	197.3	1.87	--	--	--	--
Thienemanniella lobapodema	--	--	96.9	1.34	80.7	0.68
Cricotopus tremulus grp.	71.8	0.68	--	--	--	--
Cricotopus bicinctus grp.	1,004.7	9.52	61.0	0.85	44.9	0.38
Cricotopus sylvestris grp.	--	--	3.6	0.05	--	--
Nanocladius distinctus	136.3	1.29	114.8	1.59	44.9	0.38
Nanocladius crassicornus/rectinervis	125.6	1.19	12.6	0.17	314.0	2.65
Rheocricotopus robacki	448.5	4.25	249.4	3.46	--	--
Cryptochironomus	--	--	3.6	0.05	--	--
Dicrotendipes neomodestus	82.5	0.78	3.6	0.05	--	--
Dicrotendipes lucifer	46.6	0.44	--	--	--	--
Glyptotendipes	448.5	4.25	--	--	--	--
Harnischia	46.6	0.44	--	--	--	--
Microtendipes	7.2	0.07	--	--	--	--
Paratendipes	7.2	0.07	--	--	--	--
Phaenopsectra punctipes	7.2	0.07	--	--	--	--
Polypedilum fallax grp.	--	--	3.6	0.05	--	--
Polypedilum flavum	1,585.9	15.03	638.7	8.85	6,341.9	53.58
Polypedilum halterale grp.	7.2	0.07	9.0	0.12	--	--
Polypedilum illinoense	--	--	12.6	0.17	--	--
Polypedilum scalaenum grp.	78.9	0.75	89.7	1.24	--	--
Stenochironomus	--	--	9.0	0.12	--	--
Stictochironomus	--	--	3.6	0.05	--	--
Tribelos jucundum	16.1	0.15	--	--	--	--
Cladotanytarsus vanderwulpi grp.	71.8	0.68	--	--	--	--
Paratanytarsus	78.9	0.75	--	--	--	--
Rheotanytarsus	940.1	8.91	3.6	0.05	1,722.3	14.55
Tanytarsus glabrescens grp.	78.9	0.75	--	--	--	--
Pleurocera	--	--	52.0	0.72	--	--
Physsa	3.6	0.03	--	--	--	--
Helisoma	1.8	0.02	--	--	--	--
Ferrissia	3.6	0.03	229.6	3.18	--	--
Corbicula fluminea	16.1	0.15	--	--	17.9	0.15
Musculium	17.9	0.17	--	--	--	--
Pisidium	1.8	0.02	1.8	0.02	--	--
TOTAL BENTHOS	10,552.6	100.00	7,215.6	100.00	11,835.3	100.00
TOTAL TAXA RICHNESS	49		39		19	
EPT TAXA RICHNESS	9		8		6	

TABLE 3-29. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER, JUNE-JULY 2006.

TAXA	13		22		91	
	LAKE COOK RD.		OGDEN AVE.		MATERIAL SERVICE RD.	
	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	165.1	8.04	--	--
Oligochaeta	9,171.7	58.30	559.8	27.27	2,203.2	80.79
Helobdella stagnalis	--	--	14.4	0.70	28.7	1.05
Mooreobdella microstoma	--	--	7.2	0.35	172.2	6.32
Caecidotea	--	--	--	--	7.2	0.26
Gammarus	136.4	0.87	150.7	7.34	35.9	1.32
Baetis intercalaris	--	--	14.4	0.70	--	--
Tricorythodes	93.3	0.59	--	--	--	--
Caenis	--	--	--	--	7.2	0.26
Ephoron	14.4	0.09	--	--	--	--
Argia	--	--	7.2	0.35	--	--
Enallagma	14.4	0.09	--	--	--	--
Stylurus	14.4	0.09	--	--	--	--
Cheumatopsyche	236.8	1.51	122.0	5.94	--	--
Hydropsyche simulans	7.2	0.05	--	--	--	--
Hydroptila	21.5	0.14	14.4	0.70	--	--
Dubiraphia	14.4	0.09	--	--	--	--
Macronychus glabratus	14.4	0.09	--	--	--	--
Stenelmis	28.7	0.18	71.8	3.50	28.7	1.05
Ceratopogonidae	--	--	7.2	0.35	--	--
Ablabesmyia janta	21.5	0.14	7.2	0.35	--	--
Ablabesmyia mallochii	--	--	14.4	0.70	--	--
Ablabesmyia annulata	14.4	0.09	--	--	--	--
Thienemannimyia grp.	236.8	1.51	43.1	2.10	--	--
Thienemanniella xena	--	--	7.2	0.35	--	--
Thienemanniella lobapodema	--	--	78.9	3.85	--	--
Cricotopus bicinctus grp.	21.5	0.14	--	--	7.2	0.26
Cricotopus trifascia grp.	--	--	7.2	0.35	--	--
Cricotopus sylvestris grp.	7.2	0.05	--	--	--	--
Nanocladius crassicornus/rectinervis	21.5	0.14	--	--	--	--
Rheocricotopus robacki	--	--	7.2	0.35	--	--
Chironomus	28.7	0.18	--	--	64.6	2.37
Cryptochironomus	480.8	3.06	--	--	21.5	0.79
Dicrotendipes neomodestus	57.4	0.36	--	--	14.4	0.53
Endochironomus nigricans	7.2	0.05	--	--	--	--
Glyptotendipes	28.7	0.18	--	--	--	--
Harnischia	21.5	0.14	--	--	--	--
Microtendipes	445.0	2.83	--	--	--	--
Paratendipes	7.2	0.05	--	--	--	--
Polypedilum flavum	107.6	0.68	35.9	1.75	35.9	1.32
Polypedilum halterale grp.	244.0	1.55	--	--	--	--
Polypedilum illinoense	--	--	21.5	1.05	7.2	0.26
Polypedilum scalaenum grp.	--	--	14.4	0.70	--	--
Cladotanytarsus mancus grp.	445.0	2.83	--	--	--	--
Cladotanytarsus vanderwulpi grp.	1,177.0	7.48	7.2	0.35	--	--
Paratanytarsus	78.9	0.50	--	--	--	--
Rheotanytarsus	143.5	0.91	--	--	21.5	0.79
Tanytarsus	2,066.9	13.14	--	--	--	--
Amnicola	--	--	7.2	0.35	7.2	0.26
Pleurocera	--	--	7.2	0.35	--	--
Helisoma	7.2	0.05	--	--	--	--
Ferrissia	--	--	21.5	1.05	--	--
Corbicula fluminea	279.9	1.78	617.2	30.07	28.7	1.05
Musculium	--	--	--	--	35.9	1.32
Pisidium	14.4	0.09	21.5	1.05	--	--
TOTAL BENTHOS	15,731.2	100.00	2,052.5	100.00	2,727.1	100.00
TOTAL TAXA RICHNESS	36		27		17	
EPT TAXA RICHNESS	5		3		1	

TABLE 3-30. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE CALUMET RIVER, JUNE 2007.

TAXA	49		55	
	EWING AVE.		130TH ST.	
	#/m2	%	#/m2	%
Hydra	299.6	5.66	717.6	0.41
Turbellaria	9.0	0.17	--	--
Nemertea	1.8	0.03	--	--
Oligochaeta	26.9	0.51	807.3	0.47
Caecidotea	10.8	0.20	--	--
Hyalabella azteca	1.8	0.03	--	--
Gammarus	226.0	4.27	1,614.6	0.93
Echinogammarus ischusa	52.0	0.98	--	--
Hydracarina	7.2	0.14	--	--
Cyrenellus fraternus	5.4	0.10	1.8	0.00
Hydropsyche orris	3.6	0.07	--	--
Hydroptila	1.8	0.03	--	--
Ablabesmyia mallochi	10.8	0.20	--	--
Thienemannimyia grp.	1.8	0.03	--	--
Cricotopus sylvestris grp.	3.6	0.07	--	--
Nanocladius distinctus	1.8	0.03	--	--
Dicrotendipes neomodestus	9.0	0.17	1.8	0.00
Dicrotendipes fumidus	9.0	0.17	--	--
Dicrotendipes lucifer	--	--	3.6	0.00
Glyptotendipes	3.6	0.07	--	--
Paratendipes	9.0	0.17	--	--
Paratanytarsus	--	--	1.8	0.00
Rheotanytarsus	1.8	0.03	--	--
Tanytarsus	1.8	0.03	--	--
Tanytarsus glabrescens grp.	3.6	0.07	--	--
Tanytarsus sepp	1.8	0.03	--	--
Hemerodromia	1.8	0.03	--	--
Physa	25.1	0.47	--	--
Ferrissia	12.6	0.24	--	--
Dreissena polymorpha	--	--	1,614.6	0.93
Dreissena bugensis	4,551.5	85.97	168,640.1	97.25
TOTAL BENTHOS	5,294.2	100.00	173,403.3	100.00
TOTAL TAXA RICHNESS	27		8	
EPT TAXA RICHNESS	3		1	

TABLE 3-31. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE CALUMET RIVER, JUNE 2007.

TAXA	49		55	
	EWING AVE.		130TH ST.	
	#/m2	%	#/m2	%
Oligochaeta	1,844.4	42.27	2,145.8	61.65
Gammarus	14.4	0.33	43.1	1.24
Hydracarina	--	--	7.2	0.21
Caenis	--	--	7.2	0.21
Hydroptila	--	--	14.4	0.41
Procladius	136.4	3.13	--	--
Ablabesmyia mallochi	14.4	0.33	--	--
Cricotopus bicinctus grp.	337.3	7.73	--	--
Cricotopus sylvestris grp.	122.0	2.80	--	--
Nanocladius distinctus	14.4	0.33	--	--
Chironomus	21.5	0.49	--	--
Cladopelma	14.4	0.33	--	--
Cryptochironomus	71.8	1.64	--	--
Dicrotendipes modestus	165.1	3.78	--	--
Dicrotendipes neomodestus	50.2	1.15	7.2	0.21
Dicrotendipes fumidus	86.1	1.97	--	--
Dicrotendipes simpsoni	14.4	0.33	--	--
Microchironomus	14.4	0.33	--	--
Parachironomus	14.4	0.33	--	--
Polypedilum scalaenum grp.	236.8	5.43	--	--
Paratanytarsus	193.8	4.44	--	--
Tanytarsus sepp	14.4	0.33	--	--
Pisidium	7.2	0.16	--	--
Dreissena polymorpha	7.2	0.16	--	--
Dreissena bugensis	968.8	22.20	1,255.9	36.08
TOTAL BENTHOS	4,363.4	100.00	3,480.7	100.00
TOTAL TAXA RICHNESS	22		7	
EPT TAXA RICHNESS	0		2	

Table 3-32. Incidence of head capsule deformities observed on Chironomidae from the 2007 Hester-Dendy samples collected from various waterways in the Chicago area.

Waterbody	Station	Taxa	Per Taxon			Per Station		
			# Examined	# Deformed	%	Total Midges Examined	Total Midges Deformed	%
Calumet R.	49	Dicrotendipes fumidus	5	1	20.0	32	1	3.1
GCR	86	Chironomus	3	2	66.7	191	2	1.0
Thorn Cr.	97	Chironomus	8	2	25.0	150	3	2.0
		Paratanytarsus	4	1	25.0			
LCR	56	Nanocladius distinctus	11	1	9.1	159	3	1.9
		Dicrotendipes lucifer	94	2	2.1			
CSC	43	Glyptotendipes	8	1	12.5	192	1	0.5
NSC	36	Glyptotendipes	108	3	2.8	201	3	1.5
CSSC	41	Dicrotendipes simpsoni	129	1	0.8	198	1	0.5
CSSC	92	Dicrotendipes lucifer	143	3	2.1	196	3	1.5
Salt Cr.	SC1	Polypedilum flavum	71	2	2.8	205	4	2.0
		Polypedilum illinoense	72	2	2.8			
Salt Cr.	18	Polypedilum flavum	30	1	3.3	203	1	0.5
Higgins Cr.	78	Chironomus	5	1	20.0	205	3	1.5
		Polypedilum illinoense	6	2	33.3			

Table 3-33. Incidence of head capsule deformities observed on Chironomidae from the 2007 Ponar samples collected from various waterways in the Chicago area.

Waterbody	Station	Taxa	Per Taxon			Per Station		
			# Examined	# Deformed	%	Total Midges Examined	Total Midges Deformed	%
Calumet R.	49	Procladius	19	1	5.3	143	1	0.7
LCR	76	Procladius	24	1	4.2	32	1	3.1
LCR	56	Chironomus	3	2	66.7	66	2	3.0
CSC	58	Procladius	20	3	15.0	20	3	15.0
CSC	59	Procladius	127	5	3.9	138	6	4.3
		Dicrotendipes modestus	9	1	11.1			
CSC	43	Procladius	120	8	6.7	125	8	6.4
CSSC	92	Procladius	22	2	9.1	27	2	7.4
Salt Cr.	SC1	Dicrotendipes fumidus	19	2	10.5	204	2	1.0
Higgins Cr.	78	Chironomus	4	1	25.0	206	1	0.5
Des Plaines R.	91	Chironomus	100	5	5.0	115	5	4.3

TABLE 3-34. HESTER-DENDY DENSITIES AT SAMPLING STATION 50 WITHIN THE WOLF LAKE DRAINAGE CHANNEL, JUNE 2007.

TAXA	50 BURNHAM AVE.	
	#/m2	%
Oligochaeta	14.4	66.67
Helobdella stagnalis	1.8	8.33
Peltodytes	1.8	8.33
Cricotopus sylvestris grp.	1.8	8.33
Endochironomus nigricans	1.8	8.33
TOTAL BENTHOS	21.5	100.00
TOTAL TAXA RICHNESS	5	
EPT TAXA RICHNESS	0	

TABLE 3-35. PETITE PONAR DENSITIES AT SAMPLING STATION 50 WITHIN THE WOLF LAKE DRAINAGE CHANNEL, JUNE 2007.

TAXA	50 BURNHAM AVE.	
	#/m2	%
Oligochaeta	236.8	60.00
Caenis	7.2	1.82
Tanytus	143.5	36.36
Hydrobaenus	7.2	1.82
TOTAL BENTHOS	394.7	100.00
TOTAL TAXA RICHNESS	4	
EPT TAXA RICHNESS	1	

TABLE 3-36. HESTER-DENDY DENSITIES AT SAMPLING STATION 86 WITHIN THE GRAND CALUMET RIVER, JUNE 2007.

TAXA	86 BURNHAM AVE.	
	#/m2	%
Oligochaeta	2,680.3	85.67
Helobdella stagnalis	35.9	1.15
Erpobdella punctata punctata	1.8	0.06
Caecidotea	1.8	0.06
Enallagma	1.8	0.06
Tanypus	68.2	2.18
Procladius	1.8	0.06
Ablabesmyia mallochi	7.2	0.23
Cricotopus sylvestris grp.	77.1	2.47
Chironomus	5.4	0.17
Dicrotendipes modestus	1.8	0.06
Dicrotendipes lucifer	10.8	0.34
Dicrotendipes simpsoni	16.1	0.52
Endochironomus nigricans	1.8	0.06
Glyptotendipes	3.6	0.11
Parachironomus	192.0	6.14
Paratanytarsus	1.8	0.06
Physa	9.0	0.29
Helisoma	10.8	0.34
TOTAL BENTHOS	3,128.8	100.00
TOTAL TAXA RICHNESS	19	
EPT TAXA RICHNESS	0	

TABLE 3-37. PETITE PONAR DENSITIES AT SAMPLING STATION 86 WITHIN THE GRAND CALUMET RIVER, JUNE 2007.

TAXA	86 BURNHAM AVE.	
	#/m2	%
Oligochaeta	25,814.4	96.51
Libellulidae	7.2	0.03
Tanypus	789.4	2.95
Psectrotanypus	28.7	0.11
Ablabesmyia mallochi	28.7	0.11
Cricotopus sylvestris grp.	28.7	0.11
Chironomus	14.4	0.05
Parachironomus	35.9	0.13
TOTAL BENTHOS	26,747.3	100.00
TOTAL TAXA RICHNESS	7	
EPT TAXA RICHNESS	0	

TABLE 3-38. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THORN CREEK, JUNE 2007.

TAXA	54		97	
	JOE ORR RD.		170TH ST.	
	#/m2	%	#/m2	%
Hydra	37.7	0.72	3.6	0.17
Turbellaria	114.8	2.20	30.5	1.44
Oligochaeta	2,362.8	45.18	441.3	20.90
Helobdella stagnalis	139.9	2.68	1.8	0.08
Placobdella	--	--	1.8	0.08
Mooreobdella microstoma	7.2	0.14	--	--
Caecidotea	601.0	11.49	405.5	19.20
Gammarus	3.6	0.07	--	--
Crangonyx	--	--	16.1	0.76
Hydracarina	--	--	1.8	0.08
Baetis intercalaris	--	--	1.8	0.08
Stenacron	--	--	7.2	0.34
Argia	3.6	0.07	44.9	2.12
Cyrnellus fraternus	--	--	3.6	0.17
Cheumatopsyche	39.5	0.75	218.9	10.37
Hydropsyche betteni	14.4	0.27	--	--
Tanytus	5.4	0.10	1.8	0.08
Procladius	--	--	5.4	0.25
Ablabesmyia janta	--	--	3.6	0.17
Ablabesmyia mallochi	5.4	0.10	17.9	0.85
Thienemannimyia grp.	93.3	1.78	28.7	1.36
Thienemanniella xena	14.4	0.27	5.4	0.25
Cricotopus bicinctus grp.	242.2	4.63	3.6	0.17
Nanocladius distinctus	80.7	1.54	9.0	0.42
Rheocricotopus robacki	--	--	70.0	3.31
Chironomus	168.6	3.22	25.1	1.19
Cryptochironomus	66.4	1.27	12.6	0.59
Dicrotendipes neomodestus	217.1	4.15	17.9	0.85
Dicrotendipes simpsoni	--	--	10.8	0.51
Endochironomus nigricans	5.4	0.10	--	--
Harnischia	--	--	7.2	0.34
Phaenopsectra	14.4	0.27	--	--
Polypedilum fallax grp.	--	--	44.9	2.12
Polypedilum illinoense	260.1	4.97	3.6	0.17
Polypedilum scalaenum grp.	--	--	122.0	5.78
Stenochironomus	--	--	3.6	0.17
Paratanytarsus	552.6	10.57	14.4	0.68
Tanytarsus glabrescens grp.	46.6	0.89	7.2	0.34
Tanytarsus sepp	--	--	10.8	0.51
Simulium	3.6	0.07	--	--
Physa	34.1	0.65	5.4	0.25
Menetus	--	--	1.8	0.08
Ferrissia	93.3	1.78	322.9	15.29
Corbicula fluminea	1.8	0.03	177.6	8.41
TOTAL BENTHOS	5,229.6	100.00	2,111.6	100.00
TOTAL TAXA RICHNESS	28		38	
EPT TAXA RICHNESS	2		4	

TABLE 3-39. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THORN CREEK, JUNE 2007.

TAXA	54		97	
	JOE ORR RD.		170TH ST.	
	#/m2	%	#/m2	%
Turbellaria	--	--	14.4	0.63
Oligochaeta	337.3	38.84	1,657.8	72.87
Helobdella stagnalis	--	--	14.4	0.63
Caecidotea	--	--	35.9	1.58
Argia	--	--	7.2	0.32
Cheumatopsyche	--	--	7.2	0.32
Procladius	--	--	7.2	0.32
Ablabesmyia mallochi	--	--	28.7	1.26
Thienemannimyia grp.	--	--	35.9	1.58
Cricotopus bicinctus grp.	7.2	0.83	--	--
Nanocladius distinctus	--	--	21.5	0.95
Rheocricotopus robacki	--	--	21.5	0.95
Chironomus	57.4	6.61	14.4	0.63
Cryptochironomus	57.4	6.61	107.6	4.73
Dicrotendipes neomodestus	14.4	1.65	--	--
Harnischia	--	--	14.4	0.63
Paratendipes	14.4	1.65	--	--
Polypedilum flavum	--	--	28.7	1.26
Polypedilum scalaenum grp.	373.2	42.98	107.6	4.73
Paratanytarsus	--	--	14.4	0.63
Tanytarsus glabrescens grp.	--	--	14.4	0.63
Ferrissia	--	--	7.2	0.32
Corbicula fluminea	--	--	114.8	5.05
Musculium	7.2	0.83	--	--
TOTAL BENTHOS	868.4	100.00	2,275.0	100.00
TOTAL TAXA RICHNESS	8		20	
EPT TAXA RICHNESS	0		1	

TABLE 3-40. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE LITTLE CALUMET RIVER, JUNE 2007.

TAXA	52 WENTWORTH AVE.		57 ASHLAND AVE.		76 HALSTED ST.		56 INDIANA AVE.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	233.2	5.35	3.6	0.20	7,549.3	37.73	181.2	1.02
Turbellaria	1,702.5	39.09	5.4	0.30	--	--	1.8	0.01
Oligochaeta	236.8	5.44	66.4	3.68	330.1	1.65	427.0	2.40
Helobdella papillata	43.1	0.99	--	--	--	--	--	--
Helobdella triserialis	--	--	--	--	3.6	0.02	--	--
Placobdella	--	--	1.8	0.10	--	--	--	--
Caecidotea	1,553.6	35.67	1.8	0.10	3.6	0.02	--	--
Hyalella azteca	--	--	--	--	17.9	0.09	--	--
Gammarus	--	--	565.1	31.34	263.7	1.32	319.3	1.80
Crangonyx	89.7	2.06	--	--	--	--	--	--
Echinogammarus ischusa	--	--	7.2	0.40	--	--	--	--
Baetis intercalaris	--	--	1.8	0.10	--	--	--	--
Stenacron	--	--	10.8	0.60	--	--	--	--
Argia	--	--	3.6	0.20	--	--	--	--
Enallagma	14.4	0.33	--	--	--	--	--	--
Cyrnellus fraternus	--	--	16.1	0.90	26.9	0.13	525.7	2.96
Cheumatopsyche	--	--	1.8	0.10	--	--	--	--
Procladius	7.2	0.16	--	--	--	--	21.5	0.12
Ablabesmyia janta	26.9	0.62	--	--	--	--	10.8	0.06
Thienemannimyia grp.	3.6	0.08	7.2	0.40	--	--	--	--
Thienemanniella xena	--	--	3.6	0.20	--	--	--	--
Cricotopus bicinctus grp.	--	--	26.9	1.49	57.4	0.29	17.9	0.10
Nanocladius distinctus	165.1	3.79	7.2	0.40	122.0	0.61	55.6	0.31
Chironomus	--	--	12.6	0.70	--	--	--	--
Cryptochironomus	1.8	0.04	7.2	0.40	--	--	--	--
Dicrotendipes neomodestus	--	--	111.2	6.17	--	--	--	--
Dicrotendipes fumidus	--	--	--	--	--	--	3.6	0.02
Dicrotendipes lucifer	--	--	222.5	12.34	4,198.1	20.98	888.1	5.00
Dicrotendipes simpsoni	100.5	2.31	48.4	2.69	1,417.3	7.08	339.1	1.91
Glyptotendipes	--	--	--	--	--	--	68.2	0.38
Harnischia	5.4	0.12	--	--	--	--	--	--
Parachironomus	--	--	--	--	35.9	0.18	--	--
Paratendipes	--	--	236.8	13.13	--	--	--	--
Polypedilum fallax grp.	3.6	0.08	19.7	1.09	--	--	--	--
Polypedilum illinoense	77.1	1.77	104.1	5.77	--	--	--	--
Polypedilum scalaenum grp.	86.1	1.98	114.8	6.37	--	--	--	--
Stenochironomus	--	--	--	--	--	--	21.5	0.12
Paratanytarsus	3.6	0.08	--	--	--	--	--	--
Tanytarsus glabrescens grp.	--	--	10.8	0.60	--	--	--	--
Tanytarsus sepp	1.8	0.04	--	--	--	--	--	--
Bithynia tentaculata	--	--	--	--	9.0	0.04	--	--
Physa	--	--	--	--	78.9	0.39	--	--
Helisoma	--	--	--	--	353.4	1.77	--	--
Menetus	--	--	7.2	0.40	--	--	--	--
Ferrissia	--	--	177.6	9.85	283.5	1.42	--	--
Corbicula fluminea	--	--	--	--	1.8	0.01	19.7	0.11
Dreissena polymorpha	--	--	--	--	249.4	1.25	2,231.8	12.57
Dreissena bugensis	--	--	--	--	5,007.2	25.02	12,628.3	71.10
TOTAL BENTHOS	4,355.9	100.00	1,803.0	100.00	20,009.0	100.00	17,761.0	100.00
TOTAL TAXA RICHNESS	19		28		19		17	
EPT TAXA RICHNESS	0		4		1		1	

TABLE 3-41. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE LITTLE CALUMET RIVER, JUNE 2007.

TAXA	52 WENTWORTH AVE.		57 ASHLAND AVE.		76 HALSTED ST.		56 INDIANA AVE.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Turbellaria	43.1	0.54	--	--	35.9	0.11	--	--
Plumatella	--	--	--	--	7.2	0.02	--	--
Oligochaeta	5,246.1	65.62	315.8	68.75	28,634.8	88.35	3,322.8	87.36
Helobdella papillata	7.2	0.09	--	--	--	--	--	--
Erpobdella punctata punctata	7.2	0.09	--	--	--	--	--	--
Mooreobdella microstoma	251.2	3.14	--	--	--	--	--	--
Caecidotea	258.4	3.23	--	--	--	--	--	--
Hyalella azteca	--	--	--	--	1,363.6	4.21	--	--
Gammarus	--	--	--	--	753.5	2.33	--	--
Crangonyx	21.5	0.27	--	--	--	--	--	--
Argia	7.2	0.09	--	--	--	--	--	--
Stenelmis	7.2	0.09	--	--	--	--	--	--
Tanypus	--	--	--	--	--	--	7.2	0.19
Procladius	193.8	2.42	71.8	15.63	746.4	2.30	157.9	4.15
Coelotanypus	--	--	--	--	--	--	114.8	3.02
Ablabesmyia janta	35.9	0.45	--	--	--	--	--	--
Ablabesmyia mallochi	7.2	0.09	--	--	--	--	--	--
Cricotopus bicinctus grp.	--	--	--	--	35.9	0.11	--	--
Cricotopus sylvestris grp.	--	--	--	--	7.2	0.02	--	--
Chironomus	--	--	14.4	3.13	--	--	21.5	0.57
Cryptochironomus	50.2	0.63	--	--	--	--	35.9	0.94
Dicrotendipes neomodestus	--	--	14.4	3.13	107.6	0.33	--	--
Dicrotendipes lucifer	--	--	--	--	35.9	0.11	--	--
Dicrotendipes simpsoni	100.5	1.26	14.4	3.13	35.9	0.11	7.2	0.19
Harnischia	21.5	0.27	--	--	--	--	--	--
Microchironomus	--	--	--	--	35.9	0.11	78.9	2.08
Polypedilum illinoense	100.5	1.26	--	--	--	--	--	--
Polypedilum scalaenum grp.	416.2	5.21	--	--	--	--	50.2	1.32
Paratanytarsus	--	--	28.7	6.25	--	--	--	--
Tanytarsus sepp	21.5	0.27	--	--	--	--	--	--
Valvata	172.2	2.15	--	--	--	--	--	--
Amnicola	43.1	0.54	--	--	--	--	--	--
Corbicula fluminea	28.7	0.36	--	--	358.8	1.11	--	--
Musculium	839.7	10.50	--	--	--	--	--	--
Pisidium	114.8	1.44	--	--	35.9	0.11	--	--
Dreissena bugensis	--	--	--	--	215.3	0.66	7.2	0.19
TOTAL BENTHOS	7,994.8	100.00	459.3	100.00	32,409.7	100.00	3,803.6	100.00
TOTAL TAXA RICHNESS	23		6		15		10	
EPT TAXA RICHNESS	0		0		0		0	

TABLE 3-42. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE CAL-SAG CHANNEL, JUNE 2007.

TAXA	58		59		43	
	ASHLAND AVE.		CICERO AVE.		ROUTE 83	
	#/m2	%	#/m2	%	#/m2	%
Hydra	950.8	12.61	396.5	6.39	1,189.5	25.80
Turbellaria	107.6	1.43	19.7	0.32	14.4	0.31
Oligochaeta	565.1	7.49	1,336.6	21.56	834.2	18.09
Helobdella triserialis	1.8	0.02	--	--	--	--
Caecidotea	3.6	0.05	--	--	--	--
Hyalella azteca	5.4	0.07	--	--	66.4	1.44
Gammarus	245.8	3.26	148.9	2.40	256.5	5.56
Stenacron	--	--	--	--	3.6	0.08
Enallagma	9.0	0.12	--	--	--	--
Cyrrnellus fraternus	19.7	0.26	68.2	1.10	740.9	16.07
Procladius	--	--	17.9	0.29	5.4	0.12
Ablabesmyia janta	--	--	--	--	26.9	0.58
Cricotopus bicinctus grp.	150.7	2.00	89.7	1.45	14.4	0.31
Cricotopus sylvestris grp.	165.1	2.19	17.9	0.29	28.7	0.62
Nanocladius distinctus	270.9	3.59	166.8	2.69	175.8	3.81
Cryptotendipes	--	--	17.9	0.29	--	--
Dicrotendipes modestus	--	--	--	--	14.4	0.31
Dicrotendipes neomodestus	30.5	0.40	35.9	0.58	9.0	0.19
Dicrotendipes lucifer	2,206.7	29.26	2,574.5	41.52	1,040.5	22.57
Dicrotendipes simpsoni	1,620.0	21.48	690.7	11.14	23.3	0.51
Glyptotendipes	--	--	53.8	0.87	14.4	0.31
Parachironomus	30.5	0.40	35.9	0.58	5.4	0.12
Polypedilum illinoense	61.0	0.81	17.9	0.29	5.4	0.12
Stenochironomus	--	--	--	--	5.4	0.12
Paratanytarsus	14.4	0.19	17.9	0.29	14.4	0.31
Xenochironomus xenolabis	--	--	17.9	0.29	--	--
Physa	21.5	0.29	--	--	--	--
Helisoma	95.1	1.26	--	--	5.4	0.12
Ferrissia	152.5	2.02	254.8	4.11	9.0	0.19
Corbicula fluminea	9.0	0.12	17.9	0.29	37.7	0.82
Dreissena polymorpha	3.6	0.05	14.4	0.23	14.4	0.31
Dreissena bugensis	800.1	10.61	188.4	3.04	55.6	1.21
TOTAL BENTHOS	7,540.4	100.00	6,200.2	100.00	4,610.7	100.00
TOTAL TAXA RICHNESS	24		22		26	
EPT TAXA RICHNESS	1		1		2	

TABLE 3-43. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE CAL-SAG CHANNEL, JUNE 2007.

TAXA	58		59		43	
	ASHLAND AVE.		CICERO AVE.		ROUTE 83	
	#/m2	%	#/m2	%	#/m2	%
Oligochaeta	157,886.0	98.83	2,899.4	72.14	12,717.0	92.92
Mooreobdella microstoma	287.1	0.18	14.4	0.36	21.5	0.16
Gammarus	--	--	21.5	0.54	--	--
Procladius	1,435.3	0.90	911.4	22.68	861.2	6.29
Cryptochironomus	--	--	7.2	0.18	28.7	0.21
Dicrotendipes modestus	--	--	64.6	1.61	--	--
Dicrotendipes neomodestus	--	--	7.2	0.18	--	--
Harnischia	--	--	--	--	7.2	0.05
Ferrissia	--	--	7.2	0.18	--	--
Corbicula fluminea	71.8	0.04	50.2	1.25	14.4	0.10
Musculium	--	--	7.2	0.18	35.9	0.26
Pisidium	71.8	0.04	--	--	--	--
Dreissena polymorpha	--	--	7.2	0.18	--	--
Dreissena bugensis	--	--	21.5	0.54	--	--
TOTAL BENTHOS	159,751.9	100.00	4,018.9	100.00	13,685.8	100.00
TOTAL TAXA RICHNESS	5		12		7	
EPT TAXA RICHNESS	0		0		0	

TABLE 3-44. HESTER-DENDY DENSITIES AT SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL, MAY 2007.

TAXA	36 TOUHY AVE.	
	#/m2	%
Hydra	2,134.9	2.55
Turbellaria	2,726.9	3.25
Oligochaeta	49,551.5	59.08
Mooreobdella microstoma	17.9	0.02
Ostracoda	53.8	0.06
Caecidotea	1,255.8	1.50
Hyalella azteca	645.9	0.77
Gammarus	1,166.1	1.39
Cricotopus sylvestris grp.	233.2	0.28
Nanocladius distinctus	269.1	0.32
Chironomus	574.1	0.68
Dicrotendipes modestus	89.7	0.11
Dicrotendipes lucifer	1,453.2	1.73
Dicrotendipes simpsoni	2,045.2	2.44
Glyptotendipes	20,810.9	24.81
Parachironomus	89.7	0.11
Phaenopsectra flavipes	17.9	0.02
Polypedilum illinoense	17.9	0.02
Paratanytarsus	502.3	0.60
Helisoma	197.3	0.24
Ferrissia	17.9	0.02
TOTAL BENTHOS	83,871.5	100.00
TOTAL TAXA RICHNESS	21	
EPT TAXA RICHNESS	0	

TABLE 3-45. PETITE PONAR DENSITIES AT SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL, MAY 2007.

TAXA	36 TOUHY AVE.	
	#/m2	%
Hydra	193.8	1.64
Turbellaria	7.2	0.06
Oligochaeta	11,181.2	94.83
Hyalella azteca	7.2	0.06
Procladius	7.2	0.06
Nanocladius distinctus	35.9	0.30
Chironomus	279.9	2.37
Dicrotendipes modestus	7.2	0.06
Dicrotendipes simpsoni	7.2	0.06
Glyptotendipes	14.4	0.12
Harnischia	21.5	0.18
Polypedilum scalaenum grp.	7.2	0.06
Paratanytarsus	14.4	0.12
Helisoma	7.2	0.06
TOTAL BENTHOS	11,791.2	100.00
TOTAL TAXA RICHNESS	14	
EPT TAXA RICHNESS	0	

TABLE 3-46. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER, MAY 2007.

TAXA	96		46	
	ALBANY AVE.		GRAND AVE.	
	#/m2	%	#/m2	%
Hydra	55.6	1.58	64.6	1.09
Turbellaria	93.3	2.65	1,047.7	17.62
Oligochaeta	77.1	2.19	2,831.0	47.60
Helobdella stagnalis	--	--	1.8	0.03
Caecidotea	979.5	27.81	3.6	0.06
Hyalella azteca	--	--	762.5	12.82
Gammarus	407.2	11.56	102.3	1.72
Orconectes rusticus	3.6	0.10	--	--
Baetis intercalaris	222.5	6.32	--	--
Stenacron	16.1	0.46	--	--
Argia	1.8	0.05	--	--
Rheumatobates	1.8	0.05	--	--
Cheumatopsyche	495.2	14.06	--	--
Hydropsyche	3.6	0.10	--	--
Hydropsyche betteni	5.4	0.15	--	--
Hydropsyche orris	1.8	0.05	--	--
Ceratopsyche morosa	1.8	0.05	--	--
Hydroptila	1.8	0.05	--	--
Thienemannimyia grp.	5.4	0.15	--	--
Corynoneura	3.6	0.10	--	--
Thienemanniella xena	43.1	1.22	--	--
Brillia	7.2	0.20	--	--
Cricotopus tremulus grp.	23.3	0.66	--	--
Cricotopus bicinctus grp.	9.0	0.25	--	--
Cricotopus sylvestris grp.	5.4	0.15	--	--
Nanocladius distinctus	84.3	2.39	28.7	0.48
Rheocricotopus robacki	86.1	2.45	--	--
Dicrotendipes lucifer	3.6	0.10	466.5	7.84
Dicrotendipes simpsoni	--	--	541.8	9.11
Glyptotendipes	7.2	0.20	73.6	1.24
Parachironomus	--	--	5.4	0.09
Polypedilum fallax grp.	5.4	0.15	--	--
Polypedilum flavum	39.5	1.12	--	--
Polypedilum illinoense	26.9	0.76	--	--
Polypedilum scalaenum grp.	148.9	4.23	10.8	0.18
Stictochironomus	3.6	0.10	--	--
Paratanytarsus	48.4	1.38	--	--
Tanytarsus sepp	14.4	0.41	--	--
Amnicola	3.6	0.10	--	--
Physa	1.8	0.05	1.8	0.03
Helisoma	--	--	3.6	0.06
Ferrissia	583.1	16.56	--	--
Dreissena bugensis	--	--	1.8	0.03
TOTAL BENTHOS	3,521.7	100.00	5,947.3	100.00
TOTAL TAXA RICHNESS	37		16	
EPT TAXA RICHNESS	8		0	

TABLE 3-47. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER, MAY 2007.

TAXA	96		46	
	ALBANY AVE.		GRAND AVE.	
	#/m2	%	#/m2	%
Oligochaeta	724.8	70.14	10,434.8	98.98
Tanypus	--	--	7.2	0.07
Procladius	--	--	43.1	0.41
Cryptochironomus	7.2	0.69	--	--
Polypedilum scalaenum grp.	251.2	24.31	7.2	0.07
Amnicola	7.2	0.69	--	--
Ferrissia	7.2	0.69	--	--
Corbicula fluminea	--	--	14.4	0.14
Musculium	35.9	3.47	7.2	0.07
Pisidium	--	--	21.5	0.20
Dreissena polymorpha	--	--	7.2	0.07
TOTAL BENTHOS	1,033.4	100.00	10,542.5	100.00
TOTAL TAXA RICHNESS	6		8	
EPT TAXA RICHNESS	0		0	

TABLE 3-48. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL, MAY 2007.

TAXA	75 CICERO AVE.		41 HARLEM AVE.		92 LOCKPORT	
	#/m2	%	#/m2	%	#/m2	%
	Hydra	1,539.3	23.66	959.8	7.44	324.7
Turbellaria	821.7	12.63	1,273.8	9.87	1,194.8	20.68
Oligochaeta	1,535.7	23.61	7,292.8	56.54	475.4	8.23
Helobdella	10.8	0.17	--	--	--	--
Helobdella stagnalis	--	--	35.9	0.28	23.3	0.40
Helobdella triserialis	--	--	9.0	0.07	7.2	0.12
Caecidotea	--	--	35.9	0.28	1.8	0.03
Hyalabella azteca	322.9	4.96	188.4	1.46	1,065.7	18.44
Gammarus	--	--	--	--	769.6	13.32
Cyrenellus fraternus	--	--	251.2	1.95	14.4	0.25
Hydropsyche bidens	--	--	--	--	3.6	0.06
Stenelmis	--	--	--	--	1.8	0.03
Ablabesmyia janta	--	--	--	--	102.3	1.77
Nanocladius distinctus	43.1	0.66	125.6	0.97	26.9	0.47
Dicrotendipes neomodestus	--	--	--	--	12.6	0.22
Dicrotendipes lucifer	1,372.4	21.10	1,489.1	11.54	1,352.7	23.41
Dicrotendipes simpsoni	785.8	12.08	1,157.2	8.97	342.7	5.93
Glyptotendipes	--	--	17.9	0.14	12.6	0.22
Parachironomus	--	--	17.9	0.14	--	--
Polypedilum scalaenum grp.	--	--	--	--	12.6	0.22
Physa	3.6	0.06	--	--	5.4	0.09
Helisoma	5.4	0.08	9.0	0.07	--	--
Ferrissia	5.4	0.08	17.9	0.14	9.0	0.16
Corbicula fluminea	59.2	0.91	--	--	10.8	0.19
Eupera cubensis	--	--	17.9	0.14	9.0	0.16
TOTAL BENTHOS	6,505.2	100.00	12,899.2	100.00	5,778.6	100.00
TOTAL TAXA RICHNESS	12		16		22	
EPT TAXA RICHNESS	0		1		2	

TABLE 3-49. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL, MAY 2007.

TAXA	75 CICERO AVE.		41 HARLEM AVE.		92 LOCKPORT	
	#/m2	%	#/m2	%	#/m2	%
	Hydra	--	--	2,196.1	1.93	--
Turbellaria	--	--	2,260.6	1.99	--	--
Oligochaeta	2,791.7	94.42	108,474.8	95.54	14,195.4	97.34
Helobdella stagnalis	--	--	71.8	0.06	--	--
Helobdella triserialis	--	--	21.5	0.02	--	--
Placobdella	21.5	0.73	--	--	--	--
Caecidotea	--	--	35.9	0.03	--	--
Hyalabella azteca	7.2	0.24	43.1	0.04	--	--
Cyrenellus fraternus	--	--	7.2	0.01	--	--
Procladius	14.4	0.49	--	--	157.9	1.08
Chironomus	7.2	0.24	358.8	0.32	14.4	0.10
Cryptochironomus	--	--	--	--	21.5	0.15
Dicrotendipes lucifer	--	--	28.7	0.03	--	--
Dicrotendipes simpsoni	--	--	14.4	0.01	--	--
Cladotanytarsus mancus grp.	--	--	7.2	0.01	--	--
Corbicula fluminea	114.8	3.88	--	--	186.6	1.28
Eupera cubensis	--	--	14.4	0.01	--	--
Musculium	--	--	--	--	7.2	0.05
TOTAL BENTHOS	2,956.8	100.00	113,534.4	100.00	14,582.9	100.00
TOTAL TAXA RICHNESS	6		13		6	
EPT TAXA RICHNESS	0		1		0	

TABLE 3-50. HESTER-DENDY DENSITIES AT SAMPLING STATION 64 WITHIN THE WEST BRANCH DUPAGE RIVER, MAY 2007.

TAXA	64 LAKE ST.	
	#/m2	%
Turbellaria	233.2	1.56
Oligochaeta	269.1	1.80
Cheumatopsyche	753.5	5.04
Hydroptila	17.9	0.12
Ablabesmyia janta	129.2	0.86
Thienemannimyia grp.	263.7	1.76
Thienemanniella xena	132.8	0.89
Cricotopus tremulus grp.	258.3	1.73
Cricotopus bicinctus grp.	405.5	2.71
Cricotopus sylvestris grp.	270.9	1.81
Nanocladius minimus	2,201.3	14.72
Chironomus	134.6	0.90
Cladopelma	64.6	0.43
Dicrotendipes lucifer	796.6	5.33
Endochironomus nigricans	129.2	0.86
Glyptotendipes	6,605.7	44.17
Parachironomus	68.2	0.46
Polypedilum flavum	608.2	4.07
Polypedilum illinoense	1,193.0	7.98
Paratanytarsus	132.8	0.89
Simulium	287.0	1.92
TOTAL BENTHOS	14,955.1	100.00
TOTAL TAXA RICHNESS	21	
EPT TAXA RICHNESS	2	

TABLE 3-51. PETITE PONAR DENSITIES AT SAMPLING STATION 64 WITHIN THE WEST BRANCH DUPAGE RIVER, MAY 2007.

TAXA	64 LAKE ST.	
	#/m2	%
Erpobdella punctata punctata	14.4	0.58
Crangonyx	7.2	0.29
Cheumatopsyche	14.4	0.58
Tanytus	14.4	0.58
Procladius	93.3	3.77
Ablabesmyia janta	14.4	0.58
Thienemannimyia grp.	14.4	0.58
Cricotopus bicinctus grp.	71.8	2.90
Cricotopus sylvestris grp.	28.7	1.16
Nanocladius distinctus	21.5	0.87
Chironomus	610.0	24.64
Cladopelma	93.3	3.77
Cryptochironomus	437.8	17.68
Dicrotendipes neomodestus	71.8	2.90
Dicrotendipes lucifer	86.1	3.48
Dicrotendipes simpsoni	21.5	0.87
Glyptotendipes	387.5	15.65
Parachironomus	14.4	0.58
Polypedilum illinoense	71.8	2.90
Polypedilum scalaenum grp.	215.3	8.70
Cladotanytarsus mancus grp.	28.7	1.16
Paratanytarsus	43.1	1.74
Tanytarsus	21.5	0.87
Simulium	57.4	2.32
Corbicula fluminea	21.5	0.87
TOTAL BENTHOS	2,475.9	100.00
TOTAL TAXA RICHNESS	25	
EPT TAXA RICHNESS	1	

TABLE 3-52. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN SALT CREEK, MAY 2007.

TAXA	SC1		18		SC3	
	BUSSE DAM		DEVON AVE.		THORNDALE AVE.	
	#/m2	%	#/m2	%	#/m2	%
Hydra	21.5	0.27	152.5	1.15	134.6	1.25
Turbellaria	120.2	1.53	744.5	5.62	161.5	1.49
Oligochaeta	479.0	6.08	2,430.9	18.36	726.6	6.73
Helobdella triserialis	--	--	9.0	0.07	--	--
Ostracoda	26.9	0.34	--	--	--	--
Caecidotea	--	--	80.7	0.61	9.0	0.08
Hyalella azteca	--	--	--	--	5.4	0.05
Baetis intercalaris	--	--	17.9	0.14	5.4	0.05
Stenacron	--	--	9.0	0.07	9.0	0.08
Tricorythodes	9.0	0.11	116.6	0.88	143.5	1.33
Argia	--	--	--	--	17.9	0.17
Enallagma	--	--	9.0	0.07	--	--
Cheumatopsyche	1,367.1	17.35	3,704.7	27.98	3,261.6	30.19
Ceratopsyche morosa	--	--	9.0	0.07	14.4	0.13
Hydroptila	--	--	224.3	1.69	35.9	0.33
Dubiraphia	--	--	9.0	0.07	17.9	0.17
Stenelmis	--	--	17.9	0.14	--	--
Ablabesmyia janta	95.1	1.21	53.8	0.41	39.5	0.37
Ablabesmyia mallochii	--	--	26.9	0.20	--	--
Thienemannimyia grp.	9.0	0.11	349.8	2.64	358.8	3.32
Thienemanniella xena	--	--	--	--	209.9	1.94
Cricotopus tremulus grp.	--	--	53.8	0.41	93.3	0.86
Cricotopus bicinctus grp.	557.9	7.08	89.7	0.68	249.4	2.31
Cricotopus sylvestris grp.	491.6	6.24	89.7	0.68	116.6	1.08
Nanocladius	95.1	1.21	--	--	--	--
Nanocladius distinctus	--	--	610.0	4.61	906.0	8.39
Chironomus	48.4	0.61	62.8	0.47	--	--
Cryptochironomus	--	--	179.4	1.36	--	--
Dicrotendipes neomodestus	143.5	1.82	520.3	3.93	974.2	9.02
Dicrotendipes fumidus	43.1	0.55	--	--	43.1	0.40
Dicrotendipes lucifer	--	--	161.5	1.22	--	--
Dicrotendipes simpsoni	192.0	2.44	107.6	0.81	136.3	1.26
Endochironomus nigricans	--	--	89.7	0.68	78.9	0.73
Glyptotendipes	95.1	1.21	466.5	3.52	206.3	1.91
Parachironomus	48.4	0.61	116.6	0.88	170.4	1.58
Polypedilum flavum	1,873.0	23.78	843.2	6.37	1,745.6	16.16
Polypedilum halterale grp.	--	--	--	--	14.4	0.13
Polypedilum illinoense	2,039.8	25.89	1,022.6	7.72	226.0	2.09
Polypedilum scalaenum grp.	--	--	80.7	0.61	28.7	0.27
Cladotanytarsus mancus grp.	--	--	170.4	1.29	14.4	0.13
Paratanytarsus	95.1	1.21	421.6	3.18	53.8	0.50
Tanytarsus sepp	--	--	--	--	43.1	0.40
Simulium	--	--	9.0	0.07	44.9	0.42
Hemerodromia	--	--	17.9	0.14	--	--
Physa	9.0	0.11	--	--	--	--
Menetus	--	--	--	--	5.4	0.05
Ferrissia	17.9	0.23	161.5	1.22	502.3	4.65
TOTAL BENTHOS	7,877.6	100.00	13,240.0	100.00	10,803.7	100.00
TOTAL TAXA RICHNESS	22		37		36	
EPT TAXA RICHNESS	2		6		6	

TABLE 3-53. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN SALT CREEK, MAY 2007.

TAXA	SC1		18		SC3	
	BUSSE DAM		DEVON AVE.		THORNDALE AVE.	
	#/m2	%	#/m2	%	#/m2	%
Hydra	--	--	--	--	35.9	0.14
Oligochaeta	1,779.8	4.28	1,241.6	4.85	3,688.8	14.49
Ostracoda	--	--	--	--	28.7	0.11
Caecidotea	107.6	0.26	--	--	--	--
Tricorythodes	--	--	7.2	0.03	--	--
Cheumatopsyche	610.0	1.47	57.4	0.22	904.3	3.55
Hydroptila	--	--	--	--	35.9	0.14
Nectopsyche	--	--	7.2	0.03	--	--
Oecetis	--	--	--	--	35.9	0.14
Dubiraphia	71.8	0.17	21.5	0.08	129.2	0.51
Stenelmis	--	--	--	--	143.5	0.56
Thienemannimyia grp.	--	--	--	--	157.9	0.62
Thienemanniella xena	--	--	28.7	0.11	157.9	0.62
Cricotopus tremulus grp.	--	--	--	--	373.2	1.47
Cricotopus bicinctus grp.	861.2	2.07	129.2	0.50	--	--
Cricotopus sylvestris grp.	--	--	208.1	0.81	--	--
Nanocladius distinctus	78.9	0.19	50.2	0.20	--	--
Chironomus	78.9	0.19	--	--	--	--
Cryptochironomus	1,241.6	2.99	2,145.8	8.39	2,597.9	10.21
Dicrotendipes neomodestus	2,124.3	5.11	416.2	1.63	940.1	3.69
Dicrotendipes fumidus	3,825.1	9.21	28.7	0.11	--	--
Dicrotendipes lucifer	244.0	0.59	--	--	--	--
Einfeldia natchitochaeae	552.6	1.33	--	--	--	--
Endochironomus nigricans	--	--	--	--	430.6	1.69
Glyptotendipes	2,676.9	6.44	--	--	--	--
Harnischia	--	--	--	--	114.8	0.45
Parachironomus	78.9	0.19	28.7	0.11	--	--
Paratendipes	165.1	0.40	--	--	--	--
Polypedilum flavum	1,858.7	4.47	107.6	0.42	430.6	1.69
Polypedilum halterale grp.	--	--	50.2	0.20	1,492.7	5.86
Polypedilum illinoense	1,456.9	3.51	78.9	0.31	--	--
Polypedilum scalaenum grp.	495.2	1.19	287.1	1.12	552.6	2.17
Pseudochironomus	3,172.1	7.64	78.9	0.31	57.4	0.23
Cladotanytarsus mancus grp.	19,018.1	45.78	20,259.6	79.19	12,939.5	50.83
Paratanytarsus	739.2	1.78	236.8	0.93	57.4	0.23
Simulium	--	--	7.2	0.03	71.8	0.28
Ferrissia	71.8	0.17	7.2	0.03	--	--
Corbicula fluminea	229.7	0.55	100.5	0.39	78.9	0.31
TOTAL BENTHOS	41,538.4	100.00	25,584.7	100.00	25,455.5	100.00
TOTAL TAXA RICHNESS	23		23		23	
EPT TAXA RICHNESS	1		3		3	

TABLE 3-54. HESTER-DENDY DENSITIES AT SAMPLING STATION 78 WITHIN HIGGINS CREEK, MAY 2007.

TAXA	78 WILLE RD.	
	#/m2	%
Hydra	26.9	0.09
Turbellaria	484.4	1.68
Plumatella	1.8	0.01
Oligochaeta	4,476.1	15.48
Erpobdella punctata punctata	35.9	0.12
Ostracoda	35.9	0.12
Caecidotea	13,473.3	46.59
Procambarus	9.0	0.03
Cheumatopsyche	9.0	0.03
Cricotopus bicinctus grp.	8,354.9	28.89
Cricotopus sylvestris grp.	1,239.7	4.29
Chironomus	114.8	0.40
Dicrotendipes neomodestus	138.1	0.48
Harnischia	46.6	0.16
Parachironomus	23.3	0.08
Polypedilum illinoense	195.6	0.68
Physa	242.2	0.84
Ferrissia	9.0	0.03
TOTAL BENTHOS	28,916.4	100.00
TOTAL TAXA RICHNESS	18	
EPT TAXA RICHNESS	1	

TABLE 3-55. PETITE PONAR DENSITIES AT SAMPLING STATION 78 WITHIN HIGGINS CREEK, MAY 2007.

TAXA	78 WILLE RD.	
	#/m2	%
Turbellaria	1,959.2	2.93
Plumatella	7.2	0.01
Oligochaeta	13,291.1	19.85
Erpobdella punctata punctata	265.5	0.40
Ostracoda	631.5	0.94
Caecidotea	5,849.0	8.74
Hydracarina	7.2	0.01
Laccophilus maculosus	14.4	0.02
Procladius	129.2	0.19
Thienemannimyia grp.	459.3	0.69
Cricotopus tremulus grp.	330.1	0.49
Cricotopus bicinctus grp.	35,632.0	53.22
Cricotopus sylvestris grp.	6,602.5	9.86
Chironomus	509.5	0.76
Dicrotendipes neomodestus	251.2	0.38
Parachironomus	129.2	0.19
Polypedilum illinoense	129.2	0.19
Paratanytarsus	129.2	0.19
Simulium	7.2	0.01
Amnicola	7.2	0.01
Physa	545.4	0.81
Menetus	14.4	0.02
Pisidium	50.2	0.08
TOTAL BENTHOS	66,950.8	100.00
TOTAL TAXA RICHNESS	23	
EPT TAXA RICHNESS	0	

TABLE 3-56. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER, MAY 2007.

TAXA	13		91	
	LAKE COOK RD.		MATERIAL SERVICE RD.	
	#/m2	%	#/m2	%
Hydra	53.8	0.79	--	--
Turbellaria	35.9	0.53	532.8	5.38
Plumatella	--	--	1.8	0.02
Oligochaeta	349.8	5.13	247.6	2.50
Helobdella stagnalis	16.1	0.24	--	--
Ostracoda	48.4	0.71	89.7	0.91
Caecidotea	7.2	0.11	--	--
Gammarus	258.3	3.79	9.0	0.09
Procambarus	3.6	0.05	--	--
Baetis intercalaris	448.5	6.58	358.8	3.62
Centroptilum	1.8	0.03	--	--
Stenacron	44.9	0.66	--	--
Maccaffertium integrum	233.2	3.42	--	--
Tricorythodes	349.8	5.13	--	--
Anthopotamus myops grp.	9.0	0.13	--	--
Hexagenia	1.8	0.03	--	--
Argia	10.8	0.16	--	--
Enallagma	1.8	0.03	9.0	0.09
Corixidae	1.8	0.03	--	--
Sialis	1.8	0.03	--	--
Cheumatopsyche	1,517.8	22.27	2,158.2	21.79
Hydropsyche	986.7	14.48	66.4	0.67
Hydropsyche orris	17.9	0.26	32.3	0.33
Hydropsyche simulans	--	--	1,153.6	11.64
Hydropsyche bidens	170.4	2.50	--	--
Ceratopsyche morosa	--	--	254.8	2.57
Hydroptila	--	--	17.9	0.18
Nectopsyche	9.0	0.13	--	--
Dubiraphia	28.7	0.42	--	--
Macronychus glabratus	1.8	0.03	--	--
Ceratopogonidae	3.6	0.05	--	--
Procladius	9.0	0.13	--	--
Ablabesmyia mallochii	53.8	0.79	--	--
Thienemanimyia grp.	129.2	1.90	39.5	0.40
Thienemanniella xena	39.5	0.58	--	--
Thienemanniella similis	12.6	0.18	9.0	0.09
Cricotopus tremulus grp.	39.5	0.58	--	--
Cricotopus bicinctus grp.	66.4	0.97	--	--
Nanocladius distinctus	154.3	2.26	120.2	1.21
Rheocricotopus robacki	80.7	1.18	--	--
Dicrotendipes neomodestus	12.6	0.18	39.5	0.40
Dicrotendipes lucifer	26.9	0.39	9.0	0.09
Endochironomus nigricans	9.0	0.13	--	--
Glyptotendipes	346.3	5.08	--	--
Harnischia	9.0	0.13	--	--
Microtendipes	12.6	0.18	--	--
Parachironomus	44.9	0.66	39.5	0.40
Paratendipes	9.0	0.13	--	--
Polypedilum flavum	771.4	11.32	2,870.5	28.98
Polypedilum scalaenum grp.	100.5	1.47	39.5	0.40
Tribelos fuscicorne	17.9	0.26	--	--
Cladotanytarsus mancus grp.	17.9	0.26	--	--
Rheotanytarsus	183.0	2.68	1,650.5	16.66
Tanytarsus glabrescens grp.	26.9	0.39	--	--
Simulium	--	--	131.0	1.32
Ferrissia	--	--	26.9	0.27
Corbicula fluminea	28.7	0.42	--	--
TOTAL BENTHOS	6,815.6	100.00	9,906.7	100.00
TOTAL TAXA RICHNESS	51		24	
EPT TAXA RICHNESS	12		7	

TABLE 3-57. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER, MAY 2007.

TAXA	13		22		91	
	LAKE COOK RD.		OGDEN AVE.		MATERIAL SERVICE RD.	
	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	172.2	6.90	28.7	0.13
Oligochaeta	1,291.8	14.47	602.8	24.14	18,888.9	83.32
Helobdella stagnalis	--	--	--	--	78.9	0.35
Helobdella triserialis	--	--	14.4	0.57	--	--
Mooreobdella microstoma	--	--	--	--	35.9	0.16
Ostracoda	--	--	--	--	1,873.1	8.26
Caecidotea	--	--	--	--	14.4	0.06
Gammarus	--	--	21.5	0.86	775.1	3.42
Crangonyx	35.9	0.40	--	--	--	--
Baetis intercalaris	--	--	14.4	0.57	--	--
Tricorythodes	122.0	1.37	14.4	0.57	--	--
Hexagenia	7.2	0.08	--	--	--	--
Corixidae	--	--	--	--	93.3	0.41
Cheumatopsyche	2,009.5	22.51	14.4	0.57	--	--
Hydroptila	--	--	--	--	7.2	0.03
Ceraclea maculata	7.2	0.08	--	--	--	--
Dubiraphia	7.2	0.08	--	--	--	--
Stenelmis	7.2	0.08	7.2	0.29	--	--
Tanytus	--	--	--	--	21.5	0.09
Procladius	--	--	--	--	71.8	0.32
Thienemannimyia grp.	373.2	4.18	14.4	0.57	--	--
Thienemanniella xena	--	--	21.5	0.86	--	--
Thienemanniella similis	--	--	7.2	0.29	--	--
Rheocricotopus robacki	86.1	0.96	--	--	--	--
Chironomus	--	--	--	--	717.7	3.17
Cryptochironomus	222.5	2.49	7.2	0.29	--	--
Glyptotendipes	21.5	0.24	--	--	--	--
Microtendipes	645.9	7.23	--	--	--	--
Polypedilum flavum	122.0	1.37	7.2	0.29	--	--
Polypedilum illinoense	28.7	0.32	7.2	0.29	7.2	0.03
Polypedilum scalaenum grp.	703.3	7.88	14.4	0.57	--	--
Cladotanytarsus mancus grp.	2,167.3	24.28	--	--	--	--
Tanytarsus glabrescens grp.	631.5	7.07	--	--	--	--
Valvata	--	--	--	--	7.2	0.03
Physa	--	--	--	--	7.2	0.03
Corbicula fluminea	387.5	4.34	1,557.3	62.36	43.1	0.19
Pisidium	50.2	0.56	--	--	--	--
TOTAL BENTHOS	8,927.7	100.00	2,497.5	100.00	22,671.0	100.00
TOTAL TAXA RICHNESS	20		16		16	
EPT TAXA RICHNESS	4		3		1	

TABLE 3-58. HESTER-DENDY DENSITIES AT SAMPLING STATION 55 WITHIN THE CALUMET RIVER, AUGUST 2008.

TAXA	55 130TH ST.	
	#/m2	%
Hydra	143.5	0.24
Plumatella	1.8	0.00
Oligochaeta	17.9	0.03
Gammarus	699.7	1.19
Echinogammarus ischusa	215.3	0.36
Cyrnellus fraternus	17.9	0.03
Dicrotendipes lucifer	251.2	0.43
Glyptotendipes	17.9	0.03
Paratanytarsus	17.9	0.03
Dreissena polymorpha	22,963.8	38.90
Dreissena bugensis	34,678.9	58.75
TOTAL BENTHOS	59,025.8	100.00
TOTAL TAXA RICHNESS	11	
EPT TAXA RICHNESS	1	

TABLE 3-59. PETITE PONAR DENSITIES AT SAMPLING STATION 55 WITHIN THE CALUMET RIVER, AUGUST 2008.

TAXA	55 130TH ST.	
	#/m2	%
Plumatella	7.2	0.16
Oligochaeta	351.7	7.92
Mooreobdella microstoma	7.2	0.16
Echinogammarus ischusa	21.5	0.48
Hydracarina	7.2	0.16
Procladius	21.5	0.48
Coelotanypus	7.2	0.16
Cricotopus tremulus grp.	14.4	0.32
Cricotopus bicinctus grp.	71.8	1.62
Chironomus	7.2	0.16
Cryptotendipes	43.1	0.97
Dicrotendipes lucifer	28.7	0.65
Microchironomus	7.2	0.16
Parachironomus	14.4	0.32
Polypedilum halterale grp.	78.9	1.78
Polypedilum scalaenum grp.	57.4	1.29
Paratanytarsus	93.3	2.10
Corbicula fluminea	21.5	0.48
Dreissena polymorpha	2,554.9	57.51
Dreissena bugensis	1,026.3	23.10
TOTAL BENTHOS	4,442.3	100.00
TOTAL TAXA RICHNESS	20	
EPT TAXA RICHNESS	0	

TABLE 3-60. HESTER-DENDY DENSITIES AT SAMPLING STATION 76 WITHIN THE LITTLE CALUMET RIVER, AUGUST 2008.

TAXA	76 HALSTED ST.	
	#/m2	%
Hydra	2,142.1	23.85
Turbellaria	71.8	0.80
Plumatella	3.6	0.04
Oligochaeta	545.4	6.07
Ostracoda	17.9	0.20
Caecidotea	5.4	0.06
Hyaella azteca	1.8	0.02
Gammarus	181.2	2.02
Cyrenellus fraternus	32.3	0.36
Procladius	71.8	0.80
Ablabesmyia janta	9.0	0.10
Cricotopus bicinctus grp.	96.9	1.08
Cricotopus sylvestris grp.	35.9	0.40
Nanocladius distinctus	314.0	3.50
Dicrotendipes neomodestus	9.0	0.10
Dicrotendipes lucifer	1,501.6	16.72
Dicrotendipes simpsoni	1,885.5	20.99
Glyptotendipes	35.9	0.40
Parachironomus	62.8	0.70
Polypedilum illinoense	35.9	0.40
Bithynia tentaculata	35.9	0.40
Physa	34.1	0.38
Helisoma	5.4	0.06
Ferrissia	89.7	1.00
Dreissena polymorpha	1,347.3	15.00
Dreissena bugensis	410.8	4.57
TOTAL BENTHOS	8,982.8	100.00
TOTAL TAXA RICHNESS	26	
EPT TAXA RICHNESS	1	

TABLE 3-61. PETITE PONAR DENSITIES AT SAMPLING STATION 76 WITHIN THE LITTLE CALUMET RIVER, AUGUST 2008.

TAXA	76 HALSTED ST.	
	#/m2	%
Oligochaeta	50,430.2	95.44
Mooreobdella microstoma	150.7	0.29
Gammarus	21.5	0.04
Procladius	1,062.1	2.01
Cricotopus bicinctus grp.	258.4	0.49
Cricotopus sylvestris grp.	7.2	0.01
Nanocladius distinctus	28.7	0.05
Chironomus	150.7	0.29
Dicrotendipes lucifer	179.4	0.34
Dicrotendipes simpsoni	43.1	0.08
Glyptotendipes	7.2	0.01
Polypedilum illinoense	7.2	0.01
Stenochironomus	7.2	0.01
Helisoma	7.2	0.01
Ferrissia	301.4	0.57
Corbicula fluminea	78.9	0.15
Musculium	21.5	0.04
Dreissena polymorpha	78.9	0.15
TOTAL BENTHOS	52,841.6	100.00
TOTAL TAXA RICHNESS	18	
EPT TAXA RICHNESS	0	

Table 3-62. Incidence of head capsule deformities observed on Chironomidae from the 2008 Hester-Dendy samples collected from various waterways in the Chicago area.

Waterbody	Station	Taxa	Per Taxon			Per Station		
			# Examined	# Deformed	%	Total Midges Examined	Total Midges Deformed	%
LCR	76	Dicrotendipes lucifer	94	3	3.2	208	3	1.4
CSC	59	Cricotopus sylvestris grp.	10	1	10.0	200	5	2.5
		Dicrotendipes lucifer	120	3	2.5			
		Polypedilum illinoense	17	1	5.9			
NSC	36	Dicrotendipes simpsoni	56	1	1.8	202	2	1.0
		Glyptotendipes	88	1	1.1			
NBCR	46	Dicrotendipes simpsoni	50	3	6.0	101	3	3.0
CSSC	75	Dicrotendipes lucifer	63	1	1.6	147	1	0.7
CSSC	41	Dicrotendipes lucifer	89	1	1.1	197	5	2.5
		Dicrotendipes simpsoni	92	4	4.3			
WB DuPage R.	89	Chironomus	44	4	9.1	186	4	2.2
WB DuPage R.	64	Procladius	3	1	33.3	200	1	0.5
Buffalo Cr.	12	Dicrotendipes neomodestus	30	1	3.3	196	1	0.5
Salt Cr.	18	Polypedilum flavum	70	1	1.4	201	1	0.5
Higgins Cr.	77	Chironomus	31	8	25.8	194	8	4.1

Table 3-63. Incidence of head capsule deformities observed on Chironomidae from the 2008 Ponar samples collected from various waterways in the Chicago area.

Waterbody	Station	Taxa	Per Taxon			Per Station		
			# Examined	# Deformed	%	Total Midges Examined	Total Midges Deformed	%
LCR	76	Dicrotendipes lucifer	21	1	4.8	118	1	0.8
CSC	59	Procladius	143	6	4.2	160	6	3.8
NSC	36	Chironomus	91	7	7.7	115	8	7.0
		Dicrotendipes neomodestus	3	1	33.3			
NBCR	96	Polypedilum scalaenum grp.	77	2	2.6	87	2	2.3
CSSC	92	Chironomus	24	2	8.3	115	5	4.3
		Dicrotendipes lucifer	51	2	3.9			
		Dicrotendipes simpsoni	3	1	33.3			
WB DuPage R.	89	Chironomus	104	8	7.7	118	8	6.8
Salt Cr.	79	Procladius	66	2	3.0	116	2	1.7
Higgins Cr.	77	Chironomus	37	9	24.3	50	9	18.0
Des Plaines R.	17	Chironomus	17	1	5.9	126	1	0.8
Des Plaines R.	23	Chironomus	5	2	40.0	38	2	5.3

TABLE 3-64. HESTER-DENDY DENSITIES AT SAMPLING STATION 59 WITHIN THE CAL-SAG CHANNEL, AUGUST 2008.

TAXA	59 CICERO AVE.	
	#/m2	%
Hydra	391.1	9.05
Oligochaeta	1,442.4	33.36
Caecidotea	3.6	0.08
Hyalella azteca	80.7	1.87
Gammarus	57.4	1.33
Cyrenellus fraternus	26.9	0.62
Hydroptila	1.8	0.04
Procladius	61.0	1.41
Ablabesmyia mallochi	75.3	1.74
Cricotopus bicinctus grp.	127.4	2.95
Cricotopus sylvestris grp.	113.0	2.61
Nanocladius distinctus	111.2	2.57
Chironomus	1.8	0.04
Dicrotendipes neomodestus	70.0	1.62
Dicrotendipes lucifer	590.2	13.65
Dicrotendipes simpsoni	141.7	3.28
Endochironomus nigricans	14.4	0.33
Glyptotendipes	55.6	1.29
Parachironomus	28.7	0.66
Polypedilum illinoense	183.0	4.23
Stenochironomus	32.3	0.75
Paratanytarsus	102.3	2.37
Ferrissia	95.1	2.20
Corbicula fluminea	5.4	0.12
Dreissena polymorpha	498.7	11.54
Dreissena bugensis	12.6	0.29
TOTAL BENTHOS	4,323.6	100.00
TOTAL TAXA RICHNESS	26	
EPT TAXA RICHNESS	2	

TABLE 3-65. PETITE PONAR DENSITIES AT SAMPLING STATION 59 WITHIN THE CAL-SAG CHANNEL, AUGUST 2008.

TAXA	59 CICERO AVE.	
	#/m2	%
Turbellaria	7.2	0.11
Oligochaeta	5,389.7	79.22
Procladius	1,241.6	18.25
Clinotanytus	7.2	0.11
Cricotopus bicinctus grp.	7.2	0.11
Nanocladius distinctus	28.7	0.42
Cryptochironomus	64.6	0.95
Dicrotendipes lucifer	35.9	0.53
Corbicula fluminea	21.5	0.32
TOTAL BENTHOS	6,803.4	100.00
TOTAL TAXA RICHNESS	9	
EPT TAXA RICHNESS	0	

TABLE 3-66. HESTER-DENDY DENSITIES AT SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL, JULY 2008.

TAXA	36 TOUHY AVE.	
	#/m2	%
Hydra	35.9	0.13
Turbellaria	35.9	0.13
Oligochaeta	16,433.4	57.25
Mooreobdella microstoma	17.9	0.06
Caecidotea	735.6	2.56
Hyalella azteca	287.0	1.00
Cricotopus bicinctus grp.	53.8	0.19
Cricotopus sylvestris grp.	412.6	1.44
Nanocladius distinctus	161.5	0.56
Dicrotendipes lucifer	502.3	1.75
Dicrotendipes simpsoni	2,206.7	7.69
Glyptotendipes	6,691.8	23.31
Parachironomus	843.2	2.94
Polypedilum illinoense	143.5	0.50
Paratanytarsus	17.9	0.06
Helisoma	125.6	0.44
TOTAL BENTHOS	28,704.7	100.00
TOTAL TAXA RICHNESS	16	
EPT TAXA RICHNESS	0	

TABLE 3-67. PETITE PONAR DENSITIES AT SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL, JULY 2008.

TAXA	36 TOUHY AVE.	
	#/m2	%
Hydra	7.2	0.06
Oligochaeta	11,418.0	92.66
Caecidotea	71.8	0.58
Nanocladius distinctus	7.2	0.06
Chironomus	653.1	5.30
Cladopelma	14.4	0.12
Dicrotendipes neomodestus	21.5	0.17
Dicrotendipes lucifer	7.2	0.06
Dicrotendipes simpsoni	14.4	0.12
Glyptotendipes	57.4	0.47
Parachironomus	43.1	0.35
Polypedilum scalaenum grp.	7.2	0.06
TOTAL BENTHOS	12,322.3	100.00
TOTAL TAXA RICHNESS	12	
EPT TAXA RICHNESS	0	

TABLE 3-68. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER, JULY AND AUGUST 2008.

TAXA	96 ALBANY AVE.		46 GRAND AVE.	
	#/m2	%	#/m2	%
Hydra	--	--	25.1	0.36
Turbellaria	10.8	0.22	1,948.3	28.30
Plumatella	--	--	1.8	0.03
Oligochaeta	30.5	0.63	2,974.5	43.21
Caecidotea	39.5	0.81	12.6	0.18
Hyalella azteca	--	--	653.0	9.49
Gammarus	353.4	7.26	68.2	0.99
Hydracarina	1.8	0.04	--	--
Collembola	3.6	0.07	--	--
Baetis intercalaris	23.3	0.48	--	--
Stenacron	1.8	0.04	--	--
Cheumatopsyche	5.4	0.11	--	--
Ablabesmyia mallochii	--	--	5.4	0.08
Labrundinia	1.8	0.04	--	--
Thienemannimyia grp.	3.6	0.07	--	--
Corynoneura lobata	10.8	0.22	--	--
Thienemanniella xena	147.1	3.02	--	--
Brillia	3.6	0.07	--	--
Cricotopus bicinctus grp.	46.6	0.96	--	--
Nanocladius distinctus	57.4	1.18	10.8	0.16
Rheocricotopus robacki	57.4	1.18	--	--
Chironomus	--	--	53.8	0.78
Dicrotendipes lucifer	--	--	405.5	5.89
Dicrotendipes simpsoni	--	--	541.8	7.87
Glyptotendipes	--	--	43.1	0.63
Polypedilum flavum	9.0	0.18	--	--
Polypedilum illinoense	95.1	1.95	21.5	0.31
Polypedilum scalaenum grp.	34.1	0.70	--	--
Stenochironomus	7.2	0.15	--	--
Paratanytarsus	7.2	0.15	--	--
Rheotanytarsus	3.6	0.07	--	--
Tanytarsus glabrescens grp.	1.8	0.04	--	--
Helisoma	--	--	116.6	1.69
Ferrissia	3,907.4	80.25	1.8	0.03
Dreissena bugensis	5.4	0.11	--	--
TOTAL BENTHOS	4,869.0	100.00	6,883.7	100.00
TOTAL TAXA RICHNESS	26		16	
EPT TAXA RICHNESS	3		0	

TABLE 3-69. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER, JULY AND AUGUST 2008.

TAXA	96 ALBANY AVE.		46 GRAND AVE.	
	#/m2	%	#/m2	%
Turbellaria	21.5	0.84	--	--
Oligochaeta	1,614.7	63.20	12,939.5	99.45
Caecidotea	14.4	0.56	--	--
Gammarus	28.7	1.12	--	--
Ceratopsyche morosa	7.2	0.28	--	--
Procladius	--	--	28.7	0.22
Cryptochironomus	7.2	0.28	--	--
Dicrotendipes lucifer	--	--	21.5	0.17
Dicrotendipes simpsoni	--	--	21.5	0.17
Glyptotendipes	21.5	0.84	--	--
Polypedilum halterale grp.	7.2	0.28	--	--
Polypedilum illinoense	14.4	0.56	--	--
Polypedilum scalaenum grp.	552.6	21.63	--	--
Paratanytarsus	21.5	0.84	--	--
Amnicola	28.7	1.12	--	--
Ferrissia	14.4	0.56	--	--
Corbicula fluminea	93.3	3.65	--	--
Musculium	50.2	1.97	--	--
Pisidium	7.2	0.28	--	--
Dreissena bugensis	50.2	1.97	--	--
TOTAL BENTHOS	2,554.9	100.00	13,011.2	100.00
TOTAL TAXA RICHNESS	17		4	
EPT TAXA RICHNESS	1		0	

TABLE 3-70. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL, JULY 2008.

TAXA	75 CICERO AVE.		41 HARLEM AVE.		92 LOCKPORT	
	#/m2	%	#/m2	%	#/m2	%
	Hydra	70.0	0.65	202.7	1.75	4,406.2
Turbellaria	683.5	6.33	2,700.0	23.29	703.3	9.21
Urnatella gracilis	--	--	--	--	1.8	0.02
Oligochaeta	7,326.9	67.83	6,060.3	52.27	297.8	3.90
Helobdella stagnalis	--	--	--	--	5.4	0.07
Helobdella triserialis	--	--	5.4	0.05	--	--
Placobdella papillifera	1.8	0.02	14.4	0.12	14.4	0.19
Placobdella pediculata	7.2	0.07	--	--	--	--
Caecidotea	--	--	98.7	0.85	--	--
Hyalella azteca	430.6	3.99	17.9	0.15	245.8	3.22
Gammarus	21.5	0.20	--	--	428.8	5.62
Stenacron	--	--	--	--	1.8	0.02
Maccaffertium integrum	--	--	--	--	1.8	0.02
Cyrenellus fraternus	3.6	0.03	95.1	0.82	346.3	4.54
Ablabesmyia janta	55.6	0.51	125.6	1.08	96.9	1.27
Thienemannimyia grp.	--	--	--	--	17.9	0.24
Cricotopus bicinctus grp.	17.9	0.17	14.4	0.12	--	--
Nanocladius distinctus	163.3	1.51	44.9	0.39	57.4	0.75
Chironomus	--	--	--	--	9.0	0.12
Dicrotendipes lucifer	918.6	8.50	1,067.5	9.21	419.8	5.50
Dicrotendipes simpsoni	1,065.7	9.87	1,112.3	9.59	120.2	1.57
Glyptotendipes	--	--	--	--	5.4	0.07
Polypedilum flavum	--	--	--	--	3.6	0.05
Polypedilum illinoense	--	--	9.0	0.08	--	--
Physa	17.9	0.17	--	--	--	--
Helisoma	17.9	0.17	26.9	0.23	215.3	2.82
Ferrissia	--	--	--	--	123.8	1.62
Corbicula fluminea	--	--	--	--	53.8	0.71
Eupera cubensis	--	--	--	--	9.0	0.12
Musculium	--	--	--	--	43.1	0.56
Dreissena polymorpha	--	--	--	--	3.6	0.05
TOTAL BENTHOS	10,801.9	100.00	11,594.9	100.00	7,631.9	100.00
TOTAL TAXA RICHNESS	15		15		25	
EPT TAXA RICHNESS	1		1		3	

TABLE 3-71. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL, JULY 2008.

TAXA	75 CICERO AVE.		41 HARLEM AVE.		92 LOCKPORT	
	#/m2	%	#/m2	%	#/m2	%
	Hydra	--	--	43.1	0.88	--
Turbellaria	--	--	581.3	11.91	--	--
Oligochaeta	4,722.2	94.27	3,961.5	81.18	8,676.6	74.13
Helobdella stagnalis	14.4	0.29	--	--	--	--
Hyalella azteca	21.5	0.43	7.2	0.15	796.6	6.81
Gammarus	--	--	--	--	272.7	2.33
Enallagma	--	--	--	--	7.2	0.06
Cyrenellus fraternus	--	--	7.2	0.15	7.2	0.06
Hydropsyche orris	--	--	7.2	0.15	--	--
Hydroptila	--	--	--	--	21.5	0.18
Procladius	21.5	0.43	21.5	0.44	28.7	0.25
Ablabesmyia janta	--	--	--	--	114.8	0.98
Cricotopus bicinctus grp.	--	--	--	--	43.1	0.37
Cricotopus sylvestris grp.	--	--	--	--	43.1	0.37
Nanocladius distinctus	--	--	--	--	129.2	1.10
Chironomus	--	--	64.6	1.32	351.7	3.00
Cryptochironomus	--	--	--	--	93.3	0.80
Dicrotendipes fumidus	--	--	--	--	28.7	0.25
Dicrotendipes lucifer	--	--	35.9	0.74	746.4	6.38
Dicrotendipes simpsoni	14.4	0.29	143.5	2.94	43.1	0.37
Parachironomus	--	--	--	--	14.4	0.12
Polypedilum illinoense	--	--	--	--	28.7	0.25
Physa	--	--	--	--	28.7	0.25
Corbicula fluminea	215.3	4.30	--	--	229.7	1.96
Musculium	--	--	7.2	0.15	--	--
TOTAL BENTHOS	5,009.3	100.00	4,880.1	100.00	11,705.1	100.00
TOTAL TAXA RICHNESS	6		11		20	
EPT TAXA RICHNESS	0		2		2	

TABLE 3-72. HESTER-DENDY DENSITIES AT SAMPLING STATION 90 WITHIN POPLAR CREEK, JUNE 2008.

TAXA	90 ROUTE 19	
	#/m2	%
Turbellaria	3.6	0.20
Oligochaeta	197.3	10.88
Helobdella stagnalis	91.5	5.04
Erpobdella punctata punctata	3.6	0.20
Mooreobdella microstoma	3.6	0.20
Caecidotea	7.2	0.40
Hydracarina	1.8	0.10
Baetis intercalaris	258.3	14.24
Stenacron	1.8	0.10
Argia	1.8	0.10
Cheumatopsyche	181.2	9.99
Ceratopsyche morosa	78.9	4.35
Hydroptila	1.8	0.10
Dubiraphia	10.8	0.59
Macronychus glabratus	5.4	0.30
Stenelmis	9.0	0.49
Procladius	1.8	0.10
Ablabesmyia mallochi	3.6	0.20
Nilotanypus	7.2	0.40
Thienemanniya grp.	62.8	3.46
Thienemanniella xena	19.7	1.09
Cricotopus bicinctus grp.	5.4	0.30
Cricotopus sylvestris grp.	1.8	0.10
Rheocricotopus robacki	353.4	19.49
Chironomus	1.8	0.10
Cryptochironomus	1.8	0.10
Cryptotendipes	14.4	0.79
Dicrotendipes modestus	3.6	0.20
Dicrotendipes neomodestus	3.6	0.20
Harnischia	3.6	0.20
Microtendipes	7.2	0.40
Paratendipes	113.0	6.23
Phaenopsectra obediens	1.8	0.10
Polypedilum fallax grp.	14.4	0.79
Polypedilum halterale grp.	1.8	0.10
Polypedilum illinoense	3.6	0.20
Polypedilum scalaenum grp.	9.0	0.49
Paratanytarsus	50.2	2.77
Rheotanytarsus	156.1	8.61
Simulium	52.0	2.87
Viviparidae	9.0	0.49
Ammicola	1.8	0.10
Pleurocera	3.6	0.20
Physa	17.9	0.99
Helisoma	1.8	0.10
Ferrissia	21.5	1.19
Musculium	3.6	0.20
Pisidium	3.6	0.20
TOTAL BENTHOS	1,813.8	100.00
TOTAL TAXA RICHNESS	48	
EPT TAXA RICHNESS	5	

TABLE 3-73. PETITE PONAR DENSITIES AT SAMPLING STATION 90 WITHIN POPLAR CREEK, JUNE 2008.

TAXA	90 ROUTE 19	
	#/m2	%
Oligochaeta	4,557.2	77.91
Helobdella	7.2	0.12
Helobdella stagnalis	258.4	4.42
Mooreobdella microstoma	114.8	1.96
Cheumatopsyche	7.2	0.12
Dubiraphia	28.7	0.49
Ectopria	7.2	0.12
Procladius	7.2	0.12
Ablabesmyia mallochi	7.2	0.12
Thienemannimyia grp.	28.7	0.49
Chironomus	21.5	0.37
Cryptochironomus	100.5	1.72
Cryptotendipes	43.1	0.74
Dicrotendipes modestus	7.2	0.12
Dicrotendipes neomodestus	93.3	1.60
Harnischia	14.4	0.25
Microtendipes	71.8	1.23
Paralauterborniella nigrohalteralis	14.4	0.25
Paratendipes	57.4	0.98
Phaenopsectra obediens	14.4	0.25
Polypedilum illinoense	7.2	0.12
Polypedilum scalaenum grp.	179.4	3.07
Cladotanytarsus mancus grp.	14.4	0.25
Paratanytarsus	43.1	0.74
Viviparidae	7.2	0.12
Pleurocera	43.1	0.74
Physa	7.2	0.12
Corbicula fluminea	7.2	0.12
Musculium	14.4	0.25
Pisidium	64.6	1.10
TOTAL BENTHOS	5,849.0	100.00
TOTAL TAXA RICHNESS	30	
EPT TAXA RICHNESS	1	

TABLE 3-74. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE WEST BRANCH DUPAGE RIVER, JUNE 2008.

TAXA	110		89		64	
	SPRINGINGGUTH		WALNUT AVE.		LAKE ST.	
	RD.		#/m2	%	#/m2	%
Turbellaria	--	--	1,937.6	48.87	1,175.1	10.91
Oligochaeta	197.3	47.62	626.1	15.79	4,978.5	46.23
Helobdella stagnalis	157.9	38.10	16.1	0.41	3.6	0.03
Erpobdella punctata punctata	--	--	3.6	0.09	--	--
Mooreobdella microstoma	--	--	10.8	0.27	1.8	0.02
Caecidotea	17.9	4.33	12.6	0.32	96.9	0.90
Collembola	5.4	1.30	--	--	--	--
Baetis intercalaris	--	--	--	--	12.6	0.12
Maccaffertium terminatum	--	--	--	--	9.0	0.08
Argia	--	--	1.8	0.05	--	--
Enallagma	--	--	1.8	0.05	1.8	0.02
Aeshna	--	--	1.8	0.05	--	--
Lestes	1.8	0.43	--	--	--	--
Chauliodes	1.8	0.43	--	--	--	--
Cheumatopsyche	--	--	--	--	118.4	1.10
Hydroptila	--	--	--	--	1.8	0.02
Peltodytes	--	--	3.6	0.09	--	--
Tanypus	1.8	0.43	--	--	25.1	0.23
Procladius	--	--	9.0	0.23	61.0	0.57
Ablabesmyia mallochii	--	--	--	--	43.1	0.40
Thienemannimyia grp.	--	--	5.4	0.14	--	--
Thienemanniella xena	--	--	9.0	0.23	78.9	0.73
Cricotopus bicinctus grp.	--	--	59.2	1.49	78.9	0.73
Cricotopus sylvestris grp.	--	--	89.7	2.26	17.9	0.17
Nanocladius distinctus	--	--	--	--	694.3	6.45
Nanocladius crassicornus/rectinervis	--	--	16.1	0.41	--	--
Chironomus	21.5	5.19	317.5	8.01	48.4	0.45
Cryptochironomus	--	--	9.0	0.23	25.1	0.23
Dicrotendipes modestus	--	--	9.0	0.23	53.8	0.50
Dicrotendipes neomodestus	--	--	89.7	2.26	17.9	0.17
Dicrotendipes fumidus	--	--	17.9	0.45	--	--
Dicrotendipes simpsoni	--	--	9.0	0.23	265.5	2.47
Dicrotendipes nervosus	--	--	9.0	0.23	--	--
Endochironomus nigricans	--	--	16.1	0.41	150.7	1.40
Glyptotendipes	--	--	25.1	0.63	1,406.5	13.06
Parachironomus	--	--	--	--	66.4	0.62
Paratendipes	--	--	14.4	0.36	--	--
Phaenopsectra flavipes	--	--	9.0	0.23	--	--
Phaenopsectra obediens	--	--	--	--	25.1	0.23
Polypedilum flavum	--	--	28.7	0.72	35.9	0.33
Polypedilum halterale grp.	--	--	16.1	0.41	--	--
Polypedilum illinoense	1.8	0.43	357.0	9.00	633.3	5.88
Polypedilum scalaenum grp.	--	--	--	--	17.9	0.17
Micropsectra	--	--	78.9	1.99	105.8	0.98
Paratanytarsus	--	--	143.5	3.62	285.3	2.65
Tanytarsus sepp	--	--	--	--	17.9	0.17
Hemerodromia	--	--	--	--	5.4	0.05
Physa	3.6	0.87	--	--	--	--
Menetus	--	--	7.2	0.18	190.2	1.77
Ferrissia	--	--	3.6	0.09	17.9	0.17
Pisidium	3.6	0.87	--	--	--	--
TOTAL BENTHOS	414.4	100.00	3,964.8	100.00	10,767.9	100.00
TOTAL TAXA RICHNESS	11		34		35	
EPT TAXA RICHNESS	0		0		4	

TABLE 3-75. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE WEST BRANCH DUPAGE RIVER, JUNE 2008.

TAXA	110		89		64	
	SPRINGINGGUTH		WALNUT AVE.		LAKE ST.	
	RD.					
	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	--	--	21.5	0.42
Oligochaeta	64,467.7	88.29	875.5	48.22	4,083.5	79.14
Helobdella stagnalis	452.1	0.62	93.3	5.14	--	--
Mooreobdella microstoma	122.0	0.17	--	--	--	--
Caecidotea	244.0	0.33	--	--	--	--
Procambarus	71.8	0.10	--	--	--	--
Chauliodes	7.2	0.01	--	--	--	--
Cheumatopsyche	--	--	--	--	50.2	0.97
Hydroptila	--	--	--	--	7.2	0.14
Peltodytes	--	--	--	--	14.4	0.28
Tanytus	43.1	0.06	--	--	7.2	0.14
Procladius	--	--	--	--	86.1	1.67
Thienemanniella xena	--	--	--	--	43.1	0.83
Acricotopus	222.5	0.30	--	--	--	--
Cricotopus bicinctus grp.	43.1	0.06	14.4	0.79	86.1	1.67
Cricotopus sylvestris grp.	452.1	0.62	7.2	0.40	7.2	0.14
Nanocladius distinctus	--	--	--	--	28.7	0.56
Chironomus	6,200.6	8.49	746.4	41.11	93.3	1.81
Cladopelma	114.8	0.16	--	--	7.2	0.14
Cryptochironomus	--	--	14.4	0.79	258.4	5.01
Dicrotendipes modestus	--	--	7.2	0.40	--	--
Dicrotendipes neomodestus	--	--	--	--	35.9	0.70
Dicrotendipes fumidus	--	--	--	--	14.4	0.28
Glyptotendipes	--	--	--	--	14.4	0.28
Paratendipes	--	--	7.2	0.40	--	--
Polypedilum halterale grp.	--	--	7.2	0.40	7.2	0.14
Polypedilum illinoense	--	--	14.4	0.79	43.1	0.83
Polypedilum scalaenum grp.	--	--	28.7	1.58	43.1	0.83
Cladotanytarsus mancus grp.	--	--	--	--	71.8	1.39
Paratanytarsus	--	--	--	--	50.2	0.97
Tanytarsus	--	--	--	--	21.5	0.42
Simulium	--	--	--	--	35.9	0.70
Physa	7.2	0.01	--	--	--	--
Menetus	--	--	--	--	7.2	0.14
Corbicula fluminea	--	--	--	--	7.2	0.14
Musculium	287.1	0.39	--	--	14.4	0.28
Pisidium	287.1	0.39	--	--	--	--
TOTAL BENTHOS	73,022.3	100.00	1,815.7	100.00	5,160.0	100.00
TOTAL TAXA RICHNESS	15		11		27	
EPT TAXA RICHNESS	0		0		1	

TABLE 3-76. HESTER-DENDY DENSITIES AT SAMPLING STATION 12 WITHIN BUFFALO CREEK, JUNE 2008.

TAXA	12 LAKE COOK RD.	
	#/m2	%
Hydra	696.1	11.55
Turbellaria	1,219.9	20.24
Oligochaeta	1,444.2	23.96
Helobdella stagnalis	5.4	0.09
Erpobdella punctata punctata	14.4	0.24
Caecidotea	1.8	0.03
Hyalella azteca	3.6	0.06
Orconectes rusticus	5.4	0.09
Baetis intercalaris	32.3	0.54
Stenacron	32.3	0.54
Tricorythodes	3.6	0.06
Caenis	16.1	0.27
Sialis	1.8	0.03
Cheumatopsyche	382.1	6.34
Hydropsyche simulans	5.4	0.09
Ceraclea maculata	1.8	0.03
Dubiraphia	9.0	0.15
Stenelmis	37.7	0.62
Ablabesmyia mallochi	9.0	0.15
Thienemannimyia grp.	177.6	2.95
Thienemanniella xena	9.0	0.15
Nanocladius distinctus	159.7	2.65
Chironomus	9.0	0.15
Cladopelma	9.0	0.15
Cryptochironomus	50.2	0.83
Dicrotendipes modestus	9.0	0.15
Dicrotendipes neomodestus	322.9	5.36
Dicrotendipes simpsoni	322.9	5.36
Endochironomus nigricans	9.0	0.15
Glyptotendipes	340.9	5.65
Microtendipes	21.5	0.36
Parachironomus	9.0	0.15
Paratendipes	62.8	1.04
Polypedilum fallax grp.	12.6	0.21
Polypedilum flavum	362.4	6.01
Polypedilum illinoense	35.9	0.60
Polypedilum scalaenum grp.	21.5	0.36
Pseudochironomus	12.6	0.21
Paratanytarsus	80.7	1.34
Rheotanytarsus	30.5	0.51
Tanytarsus	12.6	0.21
Physa	7.2	0.12
Ferrissia	3.6	0.06
Sphaerium	3.6	0.06
Musculium	7.2	0.12
Pisidium	3.6	0.06
TOTAL BENTHOS	6,028.0	100.00
TOTAL TAXA RICHNESS	46	
EPT TAXA RICHNESS	7	

TABLE 3-77. PETITE PONAR DENSITIES AT SAMPLING STATION 12 WITHIN BUFFALO CREEK, JUNE 2008.

TAXA	12 LAKE COOK RD.	
	#/m2	%
Hydra	43.1	0.47
Turbellaria	35.9	0.39
Oligochaeta	2,353.9	25.83
Orconectes	7.2	0.08
Baetis intercalaris	7.2	0.08
Caenis	7.2	0.08
Cheumatopsyche	93.3	1.02
Dubiraphia	14.4	0.16
Stenelmis	14.4	0.16
Procladius	14.4	0.16
Chironomus	157.9	1.73
Cryptochironomus	93.3	1.02
Cryptotendipes	14.4	0.16
Dicrotendipes neomodestus	50.2	0.55
Paratendipes	14.4	0.16
Phaenopsectra obediens	14.4	0.16
Polypedilum scalaenum grp.	14.4	0.16
Stictochironomus	5,174.4	56.77
Cladotanytarsus mancus grp.	71.8	0.79
Paratanytarsus	21.5	0.24
Tanytarsus glabrescens grp.	14.4	0.16
Physa	7.2	0.08
Corbicula fluminea	287.1	3.15
Sphaerium	114.8	1.26
Musculium	157.9	1.73
Pisidium	308.6	3.39
Elliptio dilatata	7.2	0.08
TOTAL BENTHOS	9,114.3	100.00
TOTAL TAXA RICHNESS	27	
EPT TAXA RICHNESS	3	

TABLE 3-78. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN SALT CREEK, JULY AND AUGUST 2008.

TAXA	79		80		18		SC3		24		109	
	HIGGINS RD.		ARLINGTON HTS.		DEVON AVE.		THORNDALE AVE.		WOLF RD.		BROOKFIELD AVE.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	5.4	0.04	2,215.6	10.89	776.8	5.77	84.3	1.18	--	--	14.4	1.14
Turbellaria	322.9	2.67	62.8	0.31	2,068.5	15.37	10.8	0.15	35.9	2.88	3.6	0.28
Oligochaeta	1,483.7	12.25	305.0	1.50	807.3	6.00	136.3	1.91	19.7	1.58	46.6	3.69
Helobdella	35.9	0.30	--	--	--	--	--	--	1.8	0.14	--	--
Helobdella papillata	--	--	--	--	1.8	0.01	--	--	--	--	--	--
Helobdella stagnalis	35.9	0.30	--	--	--	--	--	--	--	--	--	--
Helobdella triserialis	--	--	--	--	1.8	0.01	--	--	--	--	--	--
Mooreobdella microstoma	5.4	0.04	--	--	--	--	--	--	--	--	--	--
Caecidotea	--	--	--	--	--	--	52.0	0.73	--	--	3.6	0.28
Hydracarina	--	--	--	--	--	--	--	--	1.8	0.14	3.6	0.28
Baetis intercalaris	--	--	--	--	19.7	0.15	5.4	0.08	3.6	0.29	64.6	5.11
Stenacron	--	--	--	--	--	--	1.8	0.03	755.3	60.58	236.8	18.75
Maccaffertium terminatum	--	--	--	--	1.8	0.01	10.8	0.15	--	--	--	--
Tricorythodes	--	--	--	--	405.5	3.01	376.7	5.28	--	--	7.2	0.57
Caenis	5.4	0.04	--	--	--	--	--	--	--	--	--	--
Calopteryx	--	--	--	--	--	--	--	--	1.8	0.14	--	--
Hetaerina	--	--	--	--	--	--	--	--	--	--	3.6	0.28
Argia	--	--	--	--	1.8	0.01	1.8	0.03	35.9	2.88	7.2	0.57
Enallagma	--	--	--	--	--	--	--	--	3.6	0.29	--	--
Trepobates	53.8	0.44	--	--	--	--	--	--	--	--	--	--
Cyrnellus fraternus	597.4	4.93	--	--	26.9	0.20	21.5	0.30	--	--	3.6	0.28
Cheumatopsyche	--	--	4,843.9	23.81	4,013.3	29.81	3,268.7	45.79	57.4	4.60	147.1	11.65
Hydropsyche betteni	--	--	--	--	1.8	0.01	7.2	0.10	--	--	--	--
Hydropsyche orris	--	--	--	--	--	--	7.2	0.10	--	--	--	--
Hydropsyche simulans	--	--	--	--	--	--	10.8	0.15	--	--	--	--
Hydropsyche bidens	--	--	--	--	--	--	1.8	0.03	--	--	--	--
Ceratopsyche morosa	--	--	--	--	--	--	14.4	0.20	--	--	--	--
Hydroptila	--	--	--	--	100.5	0.75	14.4	0.20	--	--	3.6	0.28
Nectopsyche	--	--	--	--	--	--	12.6	0.18	--	--	--	--
Oecetis	--	--	--	--	--	--	3.6	0.05	--	--	--	--
Dineutus	17.9	0.15	--	--	--	--	--	--	--	--	--	--
Dubiraphia	23.3	0.19	--	--	3.6	0.03	17.9	0.25	--	--	--	--
Stenelmis	--	--	--	--	37.7	0.28	91.5	1.28	--	--	7.2	0.57
Ceratopogonidae	--	--	--	--	--	--	1.8	0.03	--	--	--	--
Tanytus	35.9	0.30	--	--	--	--	--	--	--	--	--	--
Procladius	233.2	1.93	--	--	10.8	0.08	26.9	0.38	3.6	0.29	--	--
Ablabesmyia janta	--	--	125.6	0.62	480.8	3.57	84.3	1.18	--	--	--	--
Ablabesmyia mallochi	--	--	--	--	--	--	--	--	--	--	17.9	1.42
Labrundinia	--	--	--	--	--	--	--	--	--	--	10.8	0.85
Thienemanimyia grp.	--	--	35.9	0.18	430.6	3.20	497.0	6.96	28.7	2.30	75.3	5.97
Corynoneura lobata	--	--	--	--	--	--	--	--	3.6	0.29	21.5	1.70
Thienemanniella xena	--	--	601.0	2.95	244.0	1.81	16.1	0.23	5.4	0.43	10.8	0.85
Thienemanniella similis	--	--	--	--	--	--	--	--	14.4	1.15	--	--
Cricotopus tremulus grp.	--	--	--	--	--	--	16.1	0.23	--	--	--	--
Cricotopus bicinctus grp.	--	--	995.7	4.89	10.8	0.08	43.1	0.60	--	--	--	--
Cricotopus sylvestris grp.	--	--	484.4	2.38	10.8	0.08	--	--	1.8	0.14	--	--
Nanocladius distinctus	--	--	188.4	0.93	159.7	1.19	77.1	1.08	9.0	0.72	14.4	1.14
Nanocladius crassicornus/rectinervis	--	--	--	--	--	--	12.6	0.18	--	--	--	--
Rheocricotopus robacki	--	--	--	--	35.9	0.27	16.1	0.23	10.8	0.86	53.8	4.26

TABLE 3-78 (cont.)

TAXA	79 HIGGINS RD.		80 ARLINGTON HTS. RD.		18 DEVON AVE.		SC3 THORNDALE AVE.		24 WOLF RD.		109 BROOKFIELD AVE.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Chironomus	17.9	0.15	--	--	21.5	0.16	12.6	0.18	9.0	0.72	--	--
Cladopelma	17.9	0.15	--	--	--	--	--	--	--	--	--	--
Cryptochironomus	--	--	--	--	43.1	0.32	26.9	0.38	25.1	2.01	--	--
Dicrotendipes modestus	161.5	1.33	--	--	--	--	--	--	--	--	--	--
Dicrotendipes neomodestus	--	--	--	--	333.7	2.48	254.8	3.57	--	--	--	--
Dicrotendipes fumidus	--	--	574.1	2.82	--	--	--	--	--	--	--	--
Dicrotendipes lucifer	--	--	--	--	--	--	59.2	0.83	--	--	--	--
Dicrotendipes simpsoni	3,188.0	26.33	--	--	--	--	--	--	--	--	--	--
Glyptotendipes	5,848.6	48.30	448.5	2.20	181.2	1.35	172.2	2.41	--	--	--	--
Parachironomus	--	--	--	--	35.9	0.27	--	--	--	--	--	--
Phaenopsectra obediens	--	--	--	--	139.9	1.04	12.6	0.18	3.6	0.29	--	--
Polypedilum flavum	--	--	5,920.3	29.10	2,203.1	16.36	1,435.2	20.11	100.5	8.06	43.1	3.41
Polypedilum halterale grp.	17.9	0.15	--	--	10.8	0.08	12.6	0.18	98.7	7.91	3.6	0.28
Polypedilum illinoense	--	--	2,601.4	12.79	123.8	0.92	52.0	0.73	7.2	0.58	--	--
Polypedilum scalaenum grp.	--	--	--	--	57.4	0.43	--	--	1.8	0.14	75.3	5.97
Stenochironomus	--	--	--	--	10.8	0.08	--	--	--	--	53.8	4.26
Stictochironomus	--	--	--	--	10.8	0.08	--	--	--	--	--	--
Cladotanytarsus mancus grp.	--	--	--	--	75.3	0.56	12.6	0.18	--	--	--	--
Paratanytarsus	--	--	62.8	0.31	35.9	0.27	12.6	0.18	--	--	--	--
Rheotanytarsus	--	--	843.2	4.14	197.3	1.47	12.6	0.18	3.6	0.29	43.1	3.41
Tanytarsus	--	--	--	--	21.5	0.16	43.1	0.60	--	--	--	--
Tanytarsus glabrescens grp.	--	--	--	--	--	--	16.1	0.23	--	--	--	--
Tanytarsus sepp	--	--	--	--	--	--	--	--	1.8	0.14	--	--
Simulium	--	--	--	--	226.0	1.68	9.0	0.13	--	--	--	--
Hemerodromia	--	--	26.9	0.13	37.7	0.28	10.8	0.15	--	--	--	--
Pleurocera	--	--	--	--	--	--	--	--	1.8	0.14	--	--
Helisoma	--	--	--	--	16.1	0.12	--	--	--	--	--	--
Ferrissia	--	--	9.0	0.04	25.1	0.19	39.5	0.55	--	--	287.0	22.73
Corbicula fluminea	--	--	--	--	3.6	0.03	1.8	0.03	--	--	--	--
TOTAL BENTHOS	12,108.0	100.00	20,344.5	100.00	13,462.5	100.00	7,138.5	100.00	1,246.9	100.00	1,263.0	100.00
TOTAL TAXA RICHNESS	19		18		44		49		28		27	
EPT TAXA RICHNESS	2		1		7		14		3		6	

TABLE 3-79 (cont.)

TAXA	79 HIGGINS RD.		80 ARLINGTON HTS. RD.		18 DEVON AVE.		SC3 THORNDALE AVE.		24 WOLF RD.		109 BROOKFIELD AVE.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Rheotanytarsus	--	--	--	--	--	--	--	--	7.2	0.39	--	--
Tanytarsus	57.4	0.86	--	--	--	--	--	--	--	--	--	--
Tanytarsus sepp	43.1	0.65	--	--	--	--	28.7	1.00	--	--	7.2	0.04
Hemerodromia	--	--	7.2	0.08	--	--	--	--	--	--	--	--
Physa	7.2	0.11	--	--	--	--	--	--	--	--	--	--
Ferrissia	--	--	--	--	7.2	0.11	14.4	0.50	--	--	--	--
Corbicula fluminea	7.2	0.11	50.2	0.53	244.0	3.80	86.1	2.99	--	--	43.1	0.26
Musculium	7.2	0.11	--	--	7.2	0.11	--	--	--	--	--	--
Pisidium	--	--	--	--	64.6	1.01	--	--	--	--	--	--
TOTAL BENTHOS	6,667.1	100.00	9,415.7	100.00	6,423.1	100.00	2,877.8	100.00	1,830.0	100.00	16,750.3	100.00
TOTAL TAXA RICHNESS	29		22		22		23		15		15	
EPT TAXA RICHNESS	3		3		2		1		3		1	

TABLE 3-80. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN HIGGINS CREEK, JUNE 2008.

TAXA	77		78	
	ELMHURST RD.		WILLE RD.	
	#/m2	%	#/m2	%
Turbellaria	--	--	25.1	0.11
Oligochaeta	717.6	29.70	943.7	4.00
Helobdella	9.0	0.37	--	--
Erpobdella punctata punctata	12.6	0.52	--	--
Caecidotea	57.4	2.38	11,410.1	48.35
Hyalella azteca	30.5	1.26	--	--
Gammarus	1.8	0.07	--	--
Enallagma	5.4	0.22	--	--
Cheumatopsyche	5.4	0.22	1.8	0.01
Tanytus	44.9	1.86	--	--
Procladius	10.8	0.45	--	--
Thienemanniella xena	--	--	127.4	0.54
Cricotopus tremulus grp.	48.4	2.00	--	--
Cricotopus bicinctus grp.	217.1	8.98	9,277.0	39.31
Cricotopus sylvestris grp.	466.5	19.30	1,492.6	6.32
Nanocladius distinctus	78.9	3.27	147.1	0.62
Nanocladius crassicornus/rectinervis	26.9	1.11	--	--
Rheocricotopus robacki	--	--	5.4	0.02
Chironomus	281.7	11.66	--	--
Dicrotendipes neomodestus	50.2	2.08	5.4	0.02
Dicrotendipes simpsoni	39.5	1.63	--	--
Glyptotendipes	43.1	1.78	--	--
Parachironomus	28.7	1.19	--	--
Polypedilum illinoense	--	--	127.4	0.54
Paratanytarsus	147.1	6.09	--	--
Rheotanytarsus	5.4	0.22	--	--
Simulium	--	--	28.7	0.12
Physa	87.9	3.64	9.0	0.04
TOTAL BENTHOS	2,416.6	100.00	23,600.6	100.00
TOTAL TAXA RICHNESS	23		13	
EPT TAXA RICHNESS	1		1	

TABLE 3-81. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN HIGGINS CREEK, JUNE 2008.

TAXA	77		78	
	ELMHURST RD.		WILLE RD.	
	#/m2	%	#/m2	%
Hydra	28.7	0.87	--	--
Turbellaria	--	--	86.1	0.06
Oligochaeta	2,353.9	71.00	61,676.0	44.16
Haemopsis	--	--	7.2	0.01
Mooreobdella microstoma	28.7	0.87	43.1	0.03
Caecidotea	14.4	0.43	11,439.6	8.19
Orconectes	14.4	0.43	--	--
Corixidae	14.4	0.43	--	--
Cheumatopsyche	--	--	7.2	0.01
Procladius	157.9	4.76	--	--
Thienemannimyia grp.	--	--	889.9	0.64
Cricotopus bicinctus grp.	14.4	0.43	57,449.0	41.14
Cricotopus trifascia grp.	--	--	222.5	0.16
Cricotopus sylvestris grp.	--	--	5,368.1	3.84
Nanocladius distinctus	--	--	2,239.1	1.60
Chironomus	531.1	16.02	--	--
Polypedilum flavum	--	--	222.5	0.16
Polypedilum illinoense	14.4	0.43	--	--
Simulium	--	--	7.2	0.01
Amnicola	28.7	0.87	--	--
Physa	114.8	3.46	--	--
TOTAL BENTHOS	3,315.6	100.00	139,657.3	100.00
TOTAL TAXA RICHNESS	12		13	
EPT TAXA RICHNESS	0		1	

TABLE 3-82. HESTER-DENDY DENSITIES AT EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER, JULY AND AUGUST 2008.

TAXA	13 LAKE COOK RD.		17 OAKTON ST.		19 BELMONT AVE.		20 ROOSEVELT RD.		22 OGDEN AVE.		23 WILLOW SPRINGS RD.		29 STEPHEN ST.		91 MATERIAL SERVICE RD.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	--	--	1.8	0.04	--	--	7.2	0.40	--	--	--	--	--	--	--	--
Turbellaria	1,453.2	27.01	26.9	0.53	1.8	0.10	--	--	138.1	1.13	--	--	9.0	0.07	2,682.1	14.93
Plumatella	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.01	--	--
Oligochaeta	35.9	0.67	245.8	4.80	--	--	462.9	25.96	148.9	1.22	288.8	34.48	188.4	1.39	367.8	2.05
Helobdella stagnalis	--	--	1.8	0.04	--	--	--	--	--	--	7.2	0.86	--	--	--	--
Mooreobdella microstoma	--	--	5.4	0.11	--	--	3.6	0.20	--	--	--	--	--	--	--	--
Caecidotea	--	--	21.5	0.42	--	--	500.5	28.07	--	--	3.6	0.43	--	--	--	--
Gammarus	53.8	1.00	904.2	17.67	26.9	1.43	107.6	6.04	12.6	0.10	21.5	2.57	17.9	0.13	--	--
Orconectes	--	--	--	--	1.8	0.10	--	--	--	--	--	--	--	--	--	--
Orconectes rusticus	--	--	--	--	--	--	--	--	17.9	0.15	--	--	--	--	--	--
Hydracarina	--	--	--	--	--	--	1.8	0.10	--	--	--	--	26.9	0.20	--	--
Collembola	--	--	--	--	--	--	--	--	--	--	--	--	17.9	0.13	--	--
Baetis intercalaris	62.8	1.17	95.1	1.86	303.2	16.08	5.4	0.30	830.6	6.80	--	--	44.9	0.33	358.8	2.00
Leucocuta	9.0	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stenacron	139.9	2.60	351.6	6.87	78.9	4.19	163.3	9.15	48.4	0.40	89.7	10.71	--	--	--	--
Maccaffertium integrum	68.2	1.27	5.4	0.11	--	--	--	--	--	--	--	--	17.9	0.13	--	--
Maccaffertium terminatum	14.4	0.27	32.3	0.63	--	--	--	--	--	--	--	--	--	--	--	--
Tricorythodes	229.6	4.27	5.4	0.11	--	--	1.8	0.10	102.3	0.84	--	--	26.9	0.20	17.9	0.10
Caenis	--	--	--	--	--	--	--	--	--	--	--	--	9.0	0.07	--	--
Anthopotamus myops grp.	9.0	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Argia	--	--	3.6	0.07	--	--	--	--	--	--	19.7	2.36	--	--	--	--
Enallagma	--	--	1.8	0.04	1.8	0.10	16.1	0.91	5.4	0.04	--	--	9.0	0.07	--	--
Trepobates	5.4	0.10	--	--	3.6	0.19	--	--	--	--	--	--	--	--	--	--
Rhagovelia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.9	0.10
Cyrnellus fraternus	--	--	19.7	0.39	--	--	3.6	0.20	12.6	0.10	34.1	4.07	--	--	--	--
Cheumatopsyche	2,131.3	39.61	1,022.6	19.99	1,085.4	57.56	14.4	0.80	6,596.7	54.02	--	--	5,050.2	37.21	4,341.6	24.16
Hydropsyche betteni	--	--	--	--	3.6	0.19	--	--	120.2	0.98	--	--	--	--	--	--
Hydropsyche simulans	211.7	3.93	181.2	3.54	3.6	0.19	--	--	--	--	--	--	26.9	0.20	1,363.5	7.59
Hydropsyche bidens	--	--	9.0	0.18	--	--	--	--	--	--	--	--	959.8	7.07	511.3	2.85
Ceratopsyche morosa	--	--	--	--	7.2	0.38	--	--	2,870.5	23.51	--	--	206.3	1.52	1,300.7	7.24
Macronychus glabratus	--	--	5.4	0.11	7.2	0.38	--	--	--	--	--	--	--	--	9.0	0.05
Stenelmis	9.0	0.17	57.4	1.12	3.6	0.19	--	--	--	--	--	--	17.9	0.13	--	--
Procladius	5.4	0.10	--	--	--	--	34.1	1.91	--	--	34.1	4.07	--	--	--	--
Ablabesmyia janta	--	--	1.8	0.04	--	--	--	--	--	--	87.9	10.49	--	--	--	--
Ablabesmyia mallochii	--	--	--	--	--	--	10.8	0.60	--	--	--	--	--	--	--	--
Labrundinia	--	--	23.3	0.46	--	--	--	--	48.4	0.40	--	--	--	--	--	--
Thienemanniya grp.	50.2	0.93	114.8	2.24	9.0	0.48	16.1	0.91	48.4	0.40	28.7	3.43	663.8	4.89	--	--
Corynoneura lobata	44.9	0.83	23.3	0.46	9.0	0.48	9.0	0.50	41.3	0.34	--	--	--	--	--	--
Thienemanniella xena	--	--	--	--	3.6	0.19	--	--	17.9	0.15	--	--	--	--	--	--
Thienemanniella similis	--	--	--	--	7.2	0.38	--	--	--	--	--	--	35.9	0.26	35.9	0.20
Cricotopus bicinctus grp.	--	--	--	--	--	--	--	--	12.6	0.10	--	--	35.9	0.26	--	--
Cricotopus sylvestris grp.	--	--	--	--	--	--	--	--	5.4	0.04	--	--	--	--	--	--
Nanocladius distinctus	--	--	1.8	0.04	7.2	0.38	9.0	0.50	35.9	0.29	16.1	1.93	618.9	4.56	269.1	1.50
Nanocladius crassicornus/rectinervis	--	--	--	--	--	--	1.8	0.10	5.4	0.04	--	--	35.9	0.26	161.5	0.90
Rheocricotopus robacki	71.8	1.33	202.7	3.96	39.5	2.09	1.8	0.10	107.6	0.88	--	--	--	--	--	--
Tvetenia discoloripes grp.	--	--	--	--	--	--	--	--	17.9	0.15	--	--	--	--	--	--
Chironomus	--	--	--	--	--	--	1.8	0.10	--	--	--	--	--	--	--	--
Dicrotendipes neomodestus	5.4	0.10	--	--	--	--	--	--	--	--	--	--	35.9	0.26	--	--
Dicrotendipes lucifer	--	--	--	--	--	--	--	--	--	--	16.1	1.93	--	--	--	--

TABLE 3-82 (cont.)

TAXA	13 LAKE COOK RD.		17 OAKTON ST.		19 BELMONT AVE.		20 ROOSEVELT RD.		22 OGDEN AVE.		23 WILLOW SPRINGS RD.		29 STEPHEN ST.		91 MATERIAL SERVICE RD.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Glyptotendipes	17.9	0.33	--	--	--	--	--	--	--	--	3.6	0.43	197.3	1.45	71.8	0.40
Harnischia	--	--	--	--	--	--	--	--	--	--	3.6	0.43	--	--	--	--
Microtendipes	23.3	0.43	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Parachironomus	--	--	--	--	--	--	--	--	5.4	0.04	--	--	80.7	0.59	--	--
Phaenopsectra obediens	5.4	0.10	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polypedilum flavum	624.3	11.60	873.7	17.08	181.2	9.61	1.8	0.10	932.9	7.64	3.6	0.43	3,345.9	24.65	5,956.2	33.15
Polypedilum halterale grp.	--	--	--	--	--	--	--	--	--	--	7.2	0.86	--	--	--	--
Polypedilum illinoense	--	--	1.8	0.04	3.6	0.19	3.6	0.20	--	--	3.6	0.43	80.7	0.59	--	--
Polypedilum scalaenum grp.	9.0	0.17	208.1	4.07	3.6	0.19	120.2	6.74	23.3	0.19	113.0	13.49	--	--	--	--
Stenochironomus	--	--	23.3	0.46	1.8	0.10	3.6	0.20	--	--	28.7	3.43	116.6	0.86	--	--
Tribelos jucundum	--	--	--	--	--	--	3.6	0.20	--	--	17.9	2.14	--	--	--	--
Cladotanytarsus vanderwulpi grp.	17.9	0.33	23.3	0.46	--	--	--	--	--	--	--	--	--	--	--	--
Rheotanytarsus	71.8	1.33	588.4	11.50	75.3	4.00	12.6	0.70	5.4	0.04	--	--	1,551.8	11.43	493.4	2.75
Tanytarsus	--	--	--	--	--	--	1.8	0.10	--	--	--	--	--	--	--	--
Simulium	--	--	--	--	1.8	0.10	--	--	--	--	--	--	--	--	--	--
Hemerodromia	--	--	--	--	--	--	--	--	--	--	--	--	44.9	0.33	--	--
Physa	--	--	1.8	0.04	--	--	1.8	0.10	--	--	--	--	--	--	--	--
Ferrissia	--	--	30.5	0.60	14.4	0.76	261.9	14.69	--	--	9.0	1.07	98.7	0.73	9.0	0.05
TOTAL BENTHOS	5,380.3	100.00	5,116.6	100.00	1,885.5	100.00	1,783.3	100.00	12,212.1	100.00	837.8	100.00	13,573.7	100.00	17,967.3	100.00
TOTAL TAXA RICHNESS	26		34		26		29		26		21		30		17	
EPT TAXA RICHNESS	9		9		6		5		7		2		8		6	

TABLE 3-83. PETITE PONAR DENSITIES AT EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER, JULY AND AUGUST 2008.

TAXA	13 LAKE COOK RD.		17 OAKTON ST.		19 BELMONT AVE.		20 ROOSEVELT RD.		22 OGDEN AVE.		23 WILLOW SPRINGS RD.		29 STEPHEN ST.		91 MATERIAL SERVICE RD.	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	--	--	--	--	--	--	1,141.1	11.95	--	--	--	--	--	--
Oligochaeta	2,440.1	70.10	4,227.0	56.42	3,509.4	76.53	8,238.8	93.41	1,636.3	17.13	3,853.9	93.39	3,530.9	76.64	1,514.3	40.11
Helobdella stagnalis	--	--	--	--	--	--	--	--	28.7	0.30	--	--	--	--	--	--
Mooreobdella microstoma	--	--	21.5	0.29	21.5	0.47	21.5	0.24	--	--	--	--	--	--	--	--
Caecidotea	--	--	--	--	50.2	1.10	57.4	0.65	14.4	0.15	--	--	--	--	--	--
Hyalella azteca	21.5	0.62	7.2	0.10	--	--	--	--	--	--	--	--	--	--	--	--
Gammarus	--	--	93.3	1.25	502.4	10.95	35.9	0.41	114.8	1.20	--	--	--	--	272.7	7.22
Orconectes	--	--	--	--	7.2	0.16	--	--	--	--	--	--	--	--	--	--
Orconectes rusticus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.19
Hydracarina	--	--	--	--	--	--	7.2	0.08	7.2	0.08	--	--	--	--	--	--
Maccaffertium terminatum	--	--	7.2	0.10	14.4	0.31	--	--	--	--	--	--	--	--	--	--
Tricorythodes	--	--	--	--	--	--	--	--	394.7	4.13	--	--	--	--	7.2	0.19
Caenis	--	--	--	--	--	--	--	--	--	--	--	--	14.4	0.31	--	--
Gomphidae	7.2	0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Argiogramphus	--	--	7.2	0.10	--	--	--	--	--	--	--	--	--	--	--	--
Corixidae	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	0.57
Cheumatopsyche	57.4	1.65	50.2	0.67	--	--	--	--	911.4	9.54	--	--	--	--	86.1	2.28
Hydropsyche simulans	71.8	2.06	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hydropsyche bidens	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.19
Stenelmis	7.2	0.21	21.5	0.29	78.9	1.72	14.4	0.16	14.4	0.15	--	--	--	--	50.2	1.33
Procladius	14.4	0.41	64.6	0.86	86.1	1.88	7.2	0.08	--	--	179.4	4.35	832.5	18.07	229.7	6.08
Ablabesmyia mallochii	--	--	--	--	--	--	7.2	0.08	64.6	0.68	--	--	--	--	--	--
Labrundinia	--	--	--	--	--	--	7.2	0.08	50.2	0.53	--	--	--	--	--	--
Thienemannimyia grp.	7.2	0.21	86.1	1.15	35.9	0.78	21.5	0.24	71.8	0.75	--	--	--	--	--	--
Thienemanniella xena	7.2	0.21	--	--	7.2	0.16	7.2	0.08	--	--	--	--	--	--	--	--
Cricotopus bicinctus grp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	107.6	2.85
Nanocladius distinctus	--	--	--	--	7.2	0.16	71.8	0.81	--	--	--	--	--	--	--	--
Chironomus	7.2	0.21	122.0	1.63	--	--	--	--	--	--	35.9	0.87	--	--	150.7	3.99
Cryptochironomus	107.6	3.09	150.7	2.01	7.2	0.16	86.1	0.98	172.2	1.80	35.9	0.87	28.7	0.62	28.7	0.76
Dicrotendipes neomodestus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	136.4	3.61
Glyptotendipes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.7	0.76
Harnischia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.19
Microtendipes	28.7	0.82	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Parachironomus	--	--	--	--	--	--	--	--	7.2	0.08	--	--	--	--	--	--
Paracladopelma	14.4	0.41	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Paratendipes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.4	0.38
Phaenopsectra flavipes	7.2	0.21	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polypedilum flavum	14.4	0.41	28.7	0.38	--	--	7.2	0.08	93.3	0.98	--	--	--	--	839.7	22.24
Polypedilum halterale grp.	200.9	5.77	617.2	8.24	--	--	7.2	0.08	--	--	21.5	0.52	172.2	3.74	14.4	0.38
Polypedilum illinoense	--	--	--	--	--	--	--	--	--	--	--	--	--	--	86.1	2.28
Polypedilum scalaenum grp.	143.5	4.12	1,758.3	23.47	114.8	2.50	93.3	1.06	1,155.4	12.10	--	--	28.7	0.62	43.1	1.14
Saetheria	35.9	1.03	28.7	0.38	--	--	--	--	--	--	--	--	--	--	--	--
Cladotanytarsus vanderwulpi grp.	179.4	5.15	114.8	1.53	--	--	14.4	0.16	337.3	3.53	--	--	--	--	--	--
Rheotanytarsus	--	--	--	--	7.2	0.16	--	--	--	--	--	--	--	--	35.9	0.95
Tanytarsus	--	--	--	--	--	--	--	--	7.2	0.08	--	--	--	--	--	--
Amnicola	--	--	7.2	0.10	--	--	--	--	7.2	0.08	--	--	--	--	--	--
Physa	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.4	0.38
Ferrissia	--	--	--	--	--	--	7.2	0.08	7.2	0.08	--	--	--	--	--	--
Corbicula fluminea	57.4	1.65	78.9	1.05	122.0	2.66	86.1	0.98	3,315.6	34.71	--	--	--	--	43.1	1.14
Sphaerium	--	--	--	--	14.4	0.31	21.5	0.24	--	--	--	--	--	--	28.7	0.76
Pisidium	50.2	1.44	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TOTAL BENTHOS	3,480.7	100.00	7,492.4	100.00	4,585.9	100.00	8,820.1	100.00	9,552.1	100.00	4,126.6	100.00	4,607.4	100.00	3,774.9	100.00
TOTAL TAXA RICHNESS	21		19		16		20		21		5		6		24	
EPT TAXA RICHNESS	2		2		1		0		2		0		1		3	

TABLE 3-84. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 55 WITHIN THE CALUMET RIVER.

TAXA	55 130TH ST.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Hydra	--	--	717.6	0.41	143.5	0.24
Plumatella	--	--	--	--	1.8	0.00
Oligochaeta	547.2	8.79	807.3	0.47	17.9	0.03
Gammarus	251.2	4.03	1,614.6	0.93	699.7	1.19
Echinogammarus ischusa	547.2	8.79	--	--	215.3	0.36
Orconectes	9.0	0.14	--	--	--	--
Cyrnellus fraternus	--	--	1.8	0.00	17.9	0.03
Cricotopus bicinctus grp.	9.0	0.14	--	--	--	--
Nanocladius distinctus	53.8	0.86	--	--	--	--
Rheocricotopus robacki	9.0	0.14	--	--	--	--
Dicrotendipes neomodestus	--	--	1.8	0.00	--	--
Dicrotendipes lucifer	--	--	3.6	0.00	251.2	0.43
Glyptotendipes	9.0	0.14	--	--	17.9	0.03
Parachironomus	17.9	0.29	--	--	--	--
Polypedilum flavum	17.9	0.29	--	--	--	--
Paratanytarsus	--	--	1.8	0.00	17.9	0.03
Rheotanytarsus	17.9	0.29	--	--	--	--
Ferrissia	9.0	0.14	--	--	--	--
Dreissena polymorpha	71.8	1.15	1,614.6	0.93	22,963.8	38.90
Dreissena bugensis	4,655.5	74.78	168,640.1	97.25	34,678.9	58.75
TOTAL BENTHOS	6,225.3	100.00	173,403.3	100.00	59,025.8	100.00
TOTAL TAXA RICHNESS	14		8		11	
EPT TAXA RICHNESS	0		1		1	

TABLE 3-85. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 55 WITHIN THE CALUMET RIVER.

TAXA	55 130TH ST.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Plumatella	--	--	--	--	7.2	0.16
Oligochaeta	2,662.5	55.37	2,145.8	61.65	351.7	7.92
Mooreobdella microstoma	--	--	--	--	7.2	0.16
Gammarus	--	--	43.1	1.24	--	--
Echinogammarus ischusa	28.7	0.60	--	--	21.5	0.48
Hydracarina	--	--	7.2	0.21	7.2	0.16
Caenis	--	--	7.2	0.21	--	--
Hydroptila	--	--	14.4	0.41	--	--
Procladius	7.2	0.15	--	--	21.5	0.48
Coelotanypus	7.2	0.15	--	--	7.2	0.16
Cricotopus tremulus grp.	--	--	--	--	14.4	0.32
Cricotopus bicinctus grp.	--	--	--	--	71.8	1.62
Chironomus	14.4	0.30	--	--	7.2	0.16
Cryptochironomus	28.7	0.60	--	--	--	--
Cryptotendipes	--	--	--	--	43.1	0.97
Dicrotendipes modestus	7.2	0.15	--	--	--	--
Dicrotendipes neomodestus	--	--	7.2	0.21	--	--
Dicrotendipes lucifer	--	--	--	--	28.7	0.65
Glyptotendipes	7.2	0.15	--	--	--	--
Microchironomus	--	--	--	--	7.2	0.16
Parachironomus	--	--	--	--	14.4	0.32
Polypedilum halterale grp.	244.0	5.07	--	--	78.9	1.78
Polypedilum scalaenum grp.	35.9	0.75	--	--	57.4	1.29
Paratanytarsus	--	--	--	--	93.3	2.10
Corbicula fluminea	--	--	--	--	21.5	0.48
Dreissena polymorpha	100.5	2.09	--	--	2,554.9	57.51
Dreissena bugensis	1,665.0	34.63	1,255.9	36.08	1,026.3	23.10
TOTAL BENTHOS	4,808.3	100.00	3,480.7	100.00	4,442.3	100.00
TOTAL TAXA RICHNESS	12		7		20	
EPT TAXA RICHNESS	0		2		0	

TABLE 3-86. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 76 WITHIN THE LITTLE CALUMET RIVER.

TAXA	76 HALSTED ST.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Hydra	5,735.6	43.12	7,549.3	37.73	2,142.1	23.85
Turbellaria	--	--	--	--	71.8	0.80
Plumatella	--	--	--	--	3.6	0.04
Oligochaeta	2,134.9	16.05	330.1	1.65	545.4	6.07
Helobdella triserialis	--	--	3.6	0.02	--	--
Ostracoda	--	--	--	--	17.9	0.20
Caecidotea	12.6	0.09	3.6	0.02	5.4	0.06
Hyalella azteca	--	--	17.9	0.09	1.8	0.02
Gammarus	376.7	2.83	263.7	1.32	181.2	2.02
Cyrrnellus fraternus	48.4	0.36	26.9	0.13	32.3	0.36
Cheumatopsyche	12.6	0.09	--	--	--	--
Procladius	41.3	0.31	--	--	71.8	0.80
Ablabesmyia janta	23.3	0.18	--	--	9.0	0.10
Cricotopus bicinctus grp.	53.8	0.40	57.4	0.29	96.9	1.08
Cricotopus sylvestris grp.	71.8	0.54	--	--	35.9	0.40
Nanocladius distinctus	317.5	2.39	122.0	0.61	314.0	3.50
Dicrotendipes neomodestus	--	--	--	--	9.0	0.10
Dicrotendipes lucifer	1,566.2	11.78	4,198.1	20.98	1,501.6	16.72
Dicrotendipes simpsoni	2,398.6	18.03	1,417.3	7.08	1,885.5	20.99
Glyptotendipes	17.9	0.13	--	--	35.9	0.40
Parachironomus	--	--	35.9	0.18	62.8	0.70
Polypedilum halterale grp.	17.9	0.13	--	--	--	--
Polypedilum illinoense	--	--	--	--	35.9	0.40
Bithynia tentaculata	--	--	9.0	0.04	35.9	0.40
Physa	17.9	0.13	78.9	0.39	34.1	0.38
Helisoma	17.9	0.13	353.4	1.77	5.4	0.06
Ferrissia	95.1	0.71	283.5	1.42	89.7	1.00
Corbicula fluminea	95.1	0.71	1.8	0.01	--	--
Dreissena polymorpha	--	--	249.4	1.25	1,347.3	15.00
Dreissena bugensis	245.8	1.85	5,007.2	25.02	410.8	4.57
TOTAL BENTHOS	13,301.0	100.00	20,009.0	100.00	8,982.8	100.00
TOTAL TAXA RICHNESS	20		19		26	
EPT TAXA RICHNESS	2		1		1	

TABLE 3-87. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 76 WITHIN THE LITTLE CALUMET RIVER.

TAXA	76 HALSTED ST.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	35.9	0.11	--	--
Plumatella	--	--	7.2	0.02	--	--
Oligochaeta	50,903.9	84.90	28,634.8	88.35	50,430.2	95.44
Mooreobdella microstoma	--	--	--	--	150.7	0.29
Caecidotea	107.6	0.18	--	--	--	--
Hyalella azteca	--	--	1,363.6	4.21	--	--
Gammarus	2,145.8	3.58	753.5	2.33	21.5	0.04
Procladius	2,361.1	3.94	746.4	2.30	1,062.1	2.01
Ablabesmyia janta	50.2	0.08	--	--	--	--
Cricotopus bicinctus grp.	911.4	1.52	35.9	0.11	258.4	0.49
Cricotopus sylvestris grp.	1,449.7	2.42	7.2	0.02	7.2	0.01
Nanocladius distinctus	--	--	--	--	28.7	0.05
Chironomus	50.2	0.08	--	--	150.7	0.29
Cryptochironomus	322.9	0.54	--	--	--	--
Dicrotendipes neomodestus	--	--	107.6	0.33	--	--
Dicrotendipes lucifer	660.3	1.10	35.9	0.11	179.4	0.34
Dicrotendipes simpsoni	107.6	0.18	35.9	0.11	43.1	0.08
Glyptotendipes	--	--	--	--	7.2	0.01
Microchironomus	--	--	35.9	0.11	--	--
Parachironomus	157.9	0.26	--	--	--	--
Polypedilum illinoense	50.2	0.08	--	--	7.2	0.01
Stenochironomus	--	--	--	--	7.2	0.01
Helisoma	--	--	--	--	7.2	0.01
Menetus	7.2	0.01	--	--	--	--
Ferrissia	21.5	0.04	--	--	301.4	0.57
Corbicula fluminea	473.7	0.79	358.8	1.11	78.9	0.15
Musculium	--	--	--	--	21.5	0.04
Pisidium	78.9	0.13	35.9	0.11	--	--
Dreissena polymorpha	--	--	--	--	78.9	0.15
Dreissena bugensis	100.5	0.17	215.3	0.66	--	--
TOTAL BENTHOS	59,960.8	100.00	32,409.7	100.00	52,841.6	100.00
TOTAL TAXA RICHNESS	18		15		18	
EPT TAXA RICHNESS	0		0		0	

TABLE 3-88. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 59 WITHIN THE CAL-SAG CHANNEL.

TAXA	59 CICERO AVE.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Hydra	26.9	1.27	396.5	6.39	391.1	9.05
Turbellaria	1.8	0.08	19.7	0.32	--	--
Oligochaeta	410.8	19.36	1,336.6	21.56	1,442.4	33.36
Caecidotea	16.1	0.76	--	--	3.6	0.08
Hyalella azteca	14.4	0.68	--	--	80.7	1.87
Gammarus	95.1	4.48	148.9	2.40	57.4	1.33
Argia	1.8	0.08	--	--	--	--
Cyrnellus fraternus	17.9	0.85	68.2	1.10	26.9	0.62
Hydroptila	--	--	--	--	1.8	0.04
Procladius	59.2	2.79	17.9	0.29	61.0	1.41
Ablabesmyia mallochii	--	--	--	--	75.3	1.74
Cricotopus bicinctus grp.	--	--	89.7	1.45	127.4	2.95
Cricotopus sylvestris grp.	7.2	0.34	17.9	0.29	113.0	2.61
Nanocladius distinctus	118.4	5.58	166.8	2.69	111.2	2.57
Chironomus	--	--	--	--	1.8	0.04
Cryptotendipes	--	--	17.9	0.29	--	--
Dicrotendipes neomodestus	16.1	0.76	35.9	0.58	70.0	1.62
Dicrotendipes lucifer	807.3	38.04	2,574.5	41.52	590.2	13.65
Dicrotendipes simpsoni	464.7	21.89	690.7	11.14	141.7	3.28
Endochironomus nigricans	--	--	--	--	14.4	0.33
Glyptotendipes	7.2	0.34	53.8	0.87	55.6	1.29
Parachironomus	--	--	35.9	0.58	28.7	0.66
Polypedilum illinoense	--	--	17.9	0.29	183.0	4.23
Stenochironomus	--	--	--	--	32.3	0.75
Paratanytarsus	14.4	0.68	17.9	0.29	102.3	2.37
Xenochironomus xenolabis	--	--	17.9	0.29	--	--
Helisoma	3.6	0.17	--	--	--	--
Ferrissia	10.8	0.51	254.8	4.11	95.1	2.20
Corbicula fluminea	19.7	0.93	17.9	0.29	5.4	0.12
Musculium	1.8	0.08	--	--	--	--
Dreissena polymorpha	--	--	14.4	0.23	498.7	11.54
Dreissena bugensis	7.2	0.34	188.4	3.04	12.6	0.29
TOTAL BENTHOS	2,122.4	100.00	6,200.2	100.00	4,323.6	100.00
TOTAL TAXA RICHNESS	21		22		26	
EPT TAXA RICHNESS	1		1		2	

TABLE 3-89. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 59 WITHIN THE CAL-SAG CHANNEL.

TAXA	59 CICERO AVE.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	--	--	7.2	0.11
Oligochaeta	9,710.0	93.63	2,899.4	72.14	5,389.7	79.22
Mooreobdella microstoma	--	--	14.4	0.36	--	--
Gammarus	--	--	21.5	0.54	--	--
Procladius	229.7	2.21	911.4	22.68	1,241.6	18.25
Clinotanypus	--	--	--	--	7.2	0.11
Thienemanniella xena	71.8	0.69	--	--	--	--
Cricotopus bicinctus grp.	--	--	--	--	7.2	0.11
Nanocladius distinctus	--	--	--	--	28.7	0.42
Cryptochironomus	--	--	7.2	0.18	64.6	0.95
Dicrotendipes modestus	--	--	64.6	1.61	--	--
Dicrotendipes neomodestus	71.8	0.69	7.2	0.18	--	--
Dicrotendipes lucifer	71.8	0.69	--	--	35.9	0.53
Ferrissia	--	--	7.2	0.18	--	--
Corbicula fluminea	28.7	0.28	50.2	1.25	21.5	0.32
Musculium	--	--	7.2	0.18	--	--
Dreissena polymorpha	21.5	0.21	7.2	0.18	--	--
Dreissena bugensis	165.1	1.59	21.5	0.54	--	--
TOTAL BENTHOS	10,370.2	100.00	4,018.9	100.00	6,803.4	100.00
TOTAL TAXA RICHNESS	8		12		9	
EPT TAXA RICHNESS	0		0		0	

TABLE 3-90. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL.

TAXA	36 TOUHY AVE.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Hydra	1,279.2	10.09	2,134.9	2.55	35.9	0.13
Turbellaria	658.4	5.19	2,726.9	3.25	35.9	0.13
Oligochaeta	6,200.2	48.90	49,551.5	59.08	16,433.4	57.25
Mooreobdella microstoma	--	--	17.9	0.02	17.9	0.06
Ostracoda	1.8	0.01	53.8	0.06	--	--
Caecidotea	846.8	6.68	1,255.8	1.50	735.6	2.56
Hyalella azteca	540.0	4.26	645.9	0.77	287.0	1.00
Gammarus	93.3	0.74	1,166.1	1.39	--	--
Ablabesmyia janta	1.8	0.01	--	--	--	--
Cricotopus bicinctus grp.	1.8	0.01	--	--	53.8	0.19
Cricotopus sylvestris grp.	120.2	0.95	233.2	0.28	412.6	1.44
Nanocladius distinctus	152.5	1.20	269.1	0.32	161.5	0.56
Chironomus	61.0	0.48	574.1	0.68	--	--
Cryptotendipes	1.8	0.01	--	--	--	--
Dicrotendipes modestus	--	--	89.7	0.11	--	--
Dicrotendipes fumidus	10.8	0.08	--	--	--	--
Dicrotendipes lucifer	91.5	0.72	1,453.2	1.73	502.3	1.75
Dicrotendipes simpsoni	423.4	3.34	2,045.2	2.44	2,206.7	7.69
Glyptotendipes	1,919.6	15.14	20,810.9	24.81	6,691.8	23.31
Parachironomus	218.9	1.73	89.7	0.11	843.2	2.94
Phaenopsectra flavipes	--	--	17.9	0.02	--	--
Polypedilum illinoense	--	--	17.9	0.02	143.5	0.50
Paratanytarsus	--	--	502.3	0.60	17.9	0.06
Helisoma	53.8	0.42	197.3	0.24	125.6	0.44
Ferrissia	1.8	0.01	17.9	0.02	--	--
TOTAL BENTHOS	12,678.5	100.00	83,871.5	100.00	28,704.7	100.00
TOTAL TAXA RICHNESS	20		21		16	
EPT TAXA RICHNESS	0		0		0	

TABLE 3-91. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 36 WITHIN THE NORTH SHORE CHANNEL.

TAXA	36 TOUHY AVE.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Hydra	--	--	193.8	1.64	7.2	0.06
Turbellaria	--	--	7.2	0.06	--	--
Oligochaeta	44,244.0	98.64	11,181.2	94.83	11,418.0	92.66
Caecidotea	71.8	0.16	--	--	71.8	0.58
Hyalella azteca	--	--	7.2	0.06	--	--
Gammarus	35.9	0.08	--	--	--	--
Procladius	--	--	7.2	0.06	--	--
Nanocladius distinctus	71.8	0.16	35.9	0.30	7.2	0.06
Chironomus	215.3	0.48	279.9	2.37	653.1	5.30
Cladopelma	--	--	--	--	14.4	0.12
Dicrotendipes modestus	--	--	7.2	0.06	--	--
Dicrotendipes neomodestus	--	--	--	--	21.5	0.17
Dicrotendipes lucifer	--	--	--	--	7.2	0.06
Dicrotendipes simpsoni	71.8	0.16	7.2	0.06	14.4	0.12
Glyptotendipes	71.8	0.16	14.4	0.12	57.4	0.47
Harnischia	--	--	21.5	0.18	--	--
Parachironomus	71.8	0.16	--	--	43.1	0.35
Polypedilum scalaenum grp.	--	--	7.2	0.06	7.2	0.06
Paratanytarsus	--	--	14.4	0.12	--	--
Helisoma	--	--	7.2	0.06	--	--
TOTAL BENTHOS	44,854.0	100.00	11,791.2	100.00	12,322.3	100.00
TOTAL TAXA RICHNESS	8		14		12	
EPT TAXA RICHNESS	0		0		0	

TABLE 3-92. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER.

TAXA	96 ALBANY AVE.						46 GRAND AVE.					
	2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	3.6	0.13	55.6	1.58	--	--	448.5	4.94	64.6	1.09	25.1	0.36
Turbellaria	--	--	93.3	2.65	10.8	0.22	278.1	3.06	1,047.7	17.62	1,948.3	28.30
Plumatella	--	--	--	--	--	--	--	--	--	--	1.8	0.03
Oligochaeta	136.3	4.92	77.1	2.19	30.5	0.63	7,023.7	77.37	2,831.0	47.60	2,974.5	43.21
Helobdella	--	--	--	--	--	--	35.9	0.40	--	--	--	--
Helobdella stagnalis	--	--	--	--	--	--	--	--	1.8	0.03	--	--
Caecidotea	235.0	8.48	979.5	27.81	39.5	0.81	35.9	0.40	3.6	0.06	12.6	0.18
Hyalella azteca	--	--	--	--	--	--	251.2	2.77	762.5	12.82	653.0	9.49
Gammarus	807.3	29.15	407.2	11.56	353.4	7.26	62.8	0.69	102.3	1.72	68.2	0.99
Orconectes rusticus	--	--	3.6	0.10	--	--	--	--	--	--	--	--
Orconectes immunis	1.8	0.06	--	--	--	--	--	--	--	--	--	--
Hydracarina	--	--	--	--	1.8	0.04	--	--	--	--	--	--
Collembola	--	--	--	--	3.6	0.07	--	--	--	--	--	--
Baetis intercalaris	10.8	0.39	222.5	6.32	23.3	0.48	--	--	--	--	--	--
Stenacron	120.2	4.34	16.1	0.46	1.8	0.04	--	--	--	--	--	--
Argia	--	--	1.8	0.05	--	--	--	--	--	--	--	--
Rheumatobates	--	--	1.8	0.05	--	--	--	--	--	--	--	--
Cheumatopsyche	550.8	19.88	495.2	14.06	5.4	0.11	--	--	--	--	--	--
Hydropsyche	9.0	0.32	3.6	0.10	--	--	--	--	--	--	--	--
Hydropsyche betteni	--	--	5.4	0.15	--	--	--	--	--	--	--	--
Hydropsyche orris	7.2	0.26	1.8	0.05	--	--	--	--	--	--	--	--
Ceratopsyche morosa	7.2	0.26	1.8	0.05	--	--	--	--	--	--	--	--
Hydroptila	--	--	1.8	0.05	--	--	--	--	--	--	--	--
Alotanypus	1.8	0.06	--	--	--	--	--	--	--	--	--	--
Procladius	7.2	0.26	--	--	--	--	--	--	--	--	--	--
Ablabesmyia mallochii	--	--	--	--	--	--	--	--	--	--	5.4	0.08
Labrundinia	--	--	--	--	1.8	0.04	--	--	--	--	--	--
Thienemannimyia grp.	59.2	2.14	5.4	0.15	3.6	0.07	--	--	--	--	--	--
Corynoneura	1.8	0.06	3.6	0.10	--	--	--	--	--	--	--	--
Corynoneura lobata	--	--	--	--	10.8	0.22	--	--	--	--	--	--
Thienemanniella xena	154.3	5.57	43.1	1.22	147.1	3.02	--	--	--	--	--	--
Brillia	--	--	7.2	0.20	3.6	0.07	--	--	--	--	--	--
Cricotopus tremulus grp.	--	--	23.3	0.66	--	--	--	--	--	--	--	--
Cricotopus bicinctus grp.	41.3	1.49	9.0	0.25	46.6	0.96	--	--	--	--	--	--
Cricotopus sylvestris grp.	--	--	5.4	0.15	--	--	--	--	--	--	--	--
Nanocladius distinctus	147.1	5.31	84.3	2.39	57.4	1.18	62.8	0.69	28.7	0.48	10.8	0.16
Rheocricotopus robacki	127.4	4.60	86.1	2.45	57.4	1.18	--	--	--	--	--	--
Chironomus	7.2	0.26	--	--	--	--	26.9	0.30	--	--	53.8	0.78
Cryptochironomus	5.4	0.19	--	--	--	--	--	--	--	--	--	--
Dicrotendipes neomodestus	--	--	--	--	--	--	9.0	0.10	--	--	--	--
Dicrotendipes lucifer	14.4	0.52	3.6	0.10	--	--	89.7	0.99	466.5	7.84	405.5	5.89
Dicrotendipes simpsoni	17.9	0.65	--	--	--	--	475.4	5.24	541.8	9.11	541.8	7.87
Glyptotendipes	12.6	0.45	7.2	0.20	--	--	170.4	1.88	73.6	1.24	43.1	0.63
Parachironomus	--	--	--	--	--	--	17.9	0.20	5.4	0.09	--	--
Phaenopsectra punctipes	1.8	0.06	--	--	--	--	17.9	0.20	--	--	--	--
Polypedilum fallax grp.	3.6	0.13	5.4	0.15	--	--	--	--	--	--	--	--
Polypedilum flavum	32.3	1.17	39.5	1.12	9.0	0.18	--	--	--	--	--	--
Polypedilum illinoense	5.4	0.19	26.9	0.76	95.1	1.95	17.9	0.20	--	--	21.5	0.31

TABLE 3-92 (cont.)

TAXA	96 ALBANY AVE.						46 GRAND AVE.					
	2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Polypedilum scalaenum grp.	147.1	5.31	148.9	4.23	34.1	0.70	17.9	0.20	10.8	0.18	--	--
Stenochironomus	5.4	0.19	--	--	7.2	0.15	--	--	--	--	--	--
Stictochironomus	--	--	3.6	0.10	--	--	--	--	--	--	--	--
Paratanytarsus	30.5	1.10	48.4	1.38	7.2	0.15	--	--	--	--	--	--
Rheotanytarsus	--	--	--	--	3.6	0.07	9.0	0.10	--	--	--	--
Tanytarsus glabrescens grp.	--	--	--	--	1.8	0.04	--	--	--	--	--	--
Tanytarsus sepp	--	--	14.4	0.41	--	--	--	--	--	--	--	--
Amnicola	--	--	3.6	0.10	--	--	--	--	--	--	--	--
Physa	--	--	1.8	0.05	--	--	--	--	1.8	0.03	--	--
Helisoma	--	--	--	--	--	--	17.9	0.20	3.6	0.06	116.6	1.69
Ferrissia	53.8	1.94	583.1	16.56	3,907.4	80.25	9.0	0.10	--	--	1.8	0.03
Musculium	3.6	0.13	--	--	--	--	--	--	--	--	--	--
Dreissena bugensis	--	--	--	--	5.4	0.11	--	--	1.8	0.03	--	--
TOTAL BENTHOS	2,770.0	100.00	3,521.7	100.00	4,869.0	100.00	9,077.9	100.00	5,947.3	100.00	6,883.7	100.00
TOTAL TAXA RICHNESS	33		37		26		20		16		16	
EPT TAXA RICHNESS	6		8		3		0		0		0	

TABLE 3-93. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN THE NORTH BRANCH CHICAGO RIVER.

TAXA	96 ALBANY AVE.						46 GRAND AVE.					
	2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	--	--	--	--	--	--	7.2	0.25	--	--	--	--
Turbellaria	28.7	2.52	--	--	21.5	0.84	14.4	0.50	--	--	--	--
Oligochaeta	588.5	51.57	724.8	70.14	1,614.7	63.20	2,777.4	97.48	10,434.8	98.98	12,939.5	99.45
Helobdella	14.4	1.26	--	--	--	--	--	--	--	--	--	--
Caecidotea	50.2	4.40	--	--	14.4	0.56	--	--	--	--	--	--
Gammarus	86.1	7.55	--	--	28.7	1.12	--	--	--	--	--	--
Orconectes	7.2	0.63	--	--	--	--	--	--	--	--	--	--
Stenacron	7.2	0.63	--	--	--	--	--	--	--	--	--	--
Cheumatopsyche	7.2	0.63	--	--	--	--	--	--	--	--	--	--
Ceratopsyche morosa	--	--	--	--	7.2	0.28	--	--	--	--	--	--
Tanytus	--	--	--	--	--	--	--	--	7.2	0.07	--	--
Procladius	28.7	2.52	--	--	--	--	35.9	1.26	43.1	0.41	28.7	0.22
Thienemannimyia grp.	7.2	0.63	--	--	--	--	--	--	--	--	--	--
Thienemanniella similis	7.2	0.63	--	--	--	--	--	--	--	--	--	--
Cricotopus bicinctus grp.	7.2	0.63	--	--	--	--	--	--	--	--	--	--
Cricotopus sylvestris grp.	--	--	--	--	--	--	7.2	0.25	--	--	--	--
Nanocladius distinctus	14.4	1.26	--	--	--	--	--	--	--	--	--	--
Cryptochironomus	--	--	7.2	0.69	7.2	0.28	--	--	--	--	--	--
Dicrotendipes neomodestus	7.2	0.63	--	--	--	--	--	--	--	--	--	--
Dicrotendipes lucifer	--	--	--	--	--	--	--	--	--	--	21.5	0.17
Dicrotendipes simpsoni	--	--	--	--	--	--	--	--	--	--	21.5	0.17
Glyptotendipes	--	--	--	--	21.5	0.84	--	--	--	--	--	--
Polypedilum halterale grp.	--	--	--	--	7.2	0.28	--	--	--	--	--	--
Polypedilum illinoense	--	--	--	--	14.4	0.56	--	--	--	--	--	--
Polypedilum scalaenum grp.	35.9	3.14	251.2	24.31	552.6	21.63	--	--	7.2	0.07	--	--
Paratanytarsus	14.4	1.26	--	--	21.5	0.84	--	--	--	--	--	--
Amnicola	28.7	2.52	7.2	0.69	28.7	1.12	--	--	--	--	--	--
Ferrissia	28.7	2.52	7.2	0.69	14.4	0.56	--	--	--	--	--	--
Corbicula fluminea	--	--	--	--	93.3	3.65	--	--	14.4	0.14	--	--
Musculium	157.9	13.84	35.9	3.47	50.2	1.97	--	--	7.2	0.07	--	--
Pisidium	14.4	1.26	--	--	7.2	0.28	7.2	0.25	21.5	0.20	--	--
Dreissena polymorpha	--	--	--	--	--	--	--	--	7.2	0.07	--	--
Dreissena bugensis	--	--	--	--	50.2	1.97	--	--	--	--	--	--
TOTAL BENTHOS	1,141.1	100.00	1,033.4	100.00	2,554.9	100.00	2,849.1	100.00	10,542.5	100.00	13,011.2	100.00
TOTAL TAXA RICHNESS	20		6		17		6		8		4	
EPT TAXA RICHNESS	2		0		1		0		0		0	

TABLE 3-94. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL.

TAXA	75 CICERO AVE.						41 HARLEM AVE.						92 LOCKPORT					
	2006		2007		2008		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	21.5	0.26	1,539.3	23.66	70.0	0.65	71.8	0.32	959.8	7.44	202.7	1.75	909.6	20.73	324.7	5.62	4,406.2	57.73
Turbellaria	1,282.7	15.58	821.7	12.63	683.5	6.33	3,408.7	15.24	1,273.8	9.87	2,700.0	23.29	895.2	20.40	1,194.8	20.68	703.3	9.21
Nemertea	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.04	--	--	--	--
Urnatella gracilis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.02
Oligochaeta	6,054.9	73.55	1,535.7	23.61	7,326.9	67.83	13,500.2	60.34	7,292.8	56.54	6,060.3	52.27	688.9	15.70	475.4	8.23	297.8	3.90
Helobdella	5.4	0.07	10.8	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Helobdella stagnalis	--	--	--	--	--	--	--	--	35.9	0.28	--	--	78.9	1.80	23.3	0.40	5.4	0.07
Helobdella triserialis	--	--	--	--	--	--	--	--	9.0	0.07	5.4	0.05	--	--	7.2	0.12	--	--
Placobdella papillifera	--	--	--	--	1.8	0.02	--	--	--	--	14.4	0.12	--	--	--	--	14.4	0.19
Placobdella pediculata	--	--	--	--	7.2	0.07	--	--	--	--	--	--	--	--	--	--	--	--
Mooreobdella microstoma	--	--	--	--	--	--	--	--	--	--	--	--	3.6	0.08	--	--	--	--
Ostracoda	9.0	0.11	--	--	--	--	26.9	0.12	--	--	--	--	--	--	--	--	--	--
Caecidotea	--	--	--	--	--	--	--	--	35.9	0.28	98.7	0.85	--	--	1.8	0.03	--	--
Hyalella azteca	39.5	0.48	322.9	4.96	430.6	3.99	1,605.7	7.18	188.4	1.46	17.9	0.15	206.3	4.70	1,065.7	18.44	245.8	3.22
Gammarus	5.4	0.07	--	--	21.5	0.20	--	--	--	--	--	--	340.9	7.77	769.6	13.32	428.8	5.62
Stenacron	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.02
Maccaffertium integrum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.02
Cyrenellus fraternus	--	--	--	--	3.6	0.03	125.6	0.56	251.2	1.95	95.1	0.82	39.5	0.90	14.4	0.25	346.3	4.54
Cheumatopsyche	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.04	--	--	--	--
Hydropsyche bidens	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.6	0.06	--	--
Stenelmis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.03	--	--
Stenelmis crenata grp.	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.04	--	--	--	--
Procladius	5.4	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ablabesmyia janta	5.4	0.07	--	--	55.6	0.51	53.8	0.24	--	--	125.6	1.08	--	--	102.3	1.77	96.9	1.27
Ablabesmyia mallochii	--	--	--	--	--	--	--	--	--	--	--	--	86.1	1.96	--	--	--	--
Thienemannimyia grp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.9	0.24
Cricotopus bicinctus grp.	--	--	--	--	17.9	0.17	--	--	--	--	14.4	0.12	--	--	--	--	--	--
Nanocladius distinctus	44.9	0.54	43.1	0.66	163.3	1.51	53.8	0.24	125.6	0.97	44.9	0.39	193.8	4.42	26.9	0.47	57.4	0.75
Chironomus	--	--	--	--	--	--	17.9	0.08	--	--	--	--	--	--	--	--	9.0	0.12
Dicrotendipes neomodestus	--	--	--	--	--	--	--	--	--	--	--	--	5.4	0.12	12.6	0.22	--	--
Dicrotendipes lucifer	238.6	2.90	1,372.4	21.10	918.6	8.50	852.2	3.81	1,489.1	11.54	1,067.5	9.21	543.6	12.39	1,352.7	23.41	419.8	5.50
Dicrotendipes simpsoni	502.3	6.10	785.8	12.08	1,065.7	9.87	2,386.1	10.67	1,157.2	8.97	1,112.3	9.59	296.0	6.75	342.7	5.93	120.2	1.57
Glyptotendipes	--	--	--	--	--	--	26.9	0.12	17.9	0.14	--	--	10.8	0.25	12.6	0.22	5.4	0.07
Parachironomus	--	--	--	--	--	--	--	--	17.9	0.14	--	--	--	--	--	--	--	--
Polypedilum flavum	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.6	0.05
Polypedilum illinoense	--	--	--	--	--	--	--	--	--	--	9.0	0.08	--	--	--	--	--	--
Polypedilum scalaenum grp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.6	0.22	--	--
Xenochironomus xenolabis	--	--	--	--	--	--	26.9	0.12	--	--	--	--	5.4	0.12	--	--	--	--
Physa	9.0	0.11	3.6	0.06	17.9	0.17	--	--	--	--	--	--	5.4	0.12	5.4	0.09	--	--
Helisoma	9.0	0.11	5.4	0.08	17.9	0.17	44.9	0.20	9.0	0.07	26.9	0.23	1.8	0.04	--	--	215.3	2.82
Ferrissia	--	--	5.4	0.08	--	--	9.0	0.04	17.9	0.14	--	--	1.8	0.04	9.0	0.16	123.8	1.62
Corbicula fluminea	--	--	59.2	0.91	--	--	--	--	--	--	--	--	61.0	1.39	10.8	0.19	53.8	0.71
Eupera cubensis	--	--	--	--	--	--	161.5	0.72	17.9	0.14	--	--	9.0	0.20	9.0	0.16	9.0	0.12
Musculium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43.1	0.56
Dreissena polymorpha	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.6	0.05
TOTAL BENTHOS	8,232.9	100.00	6,505.2	100.00	10,801.9	100.00	22,371.7	100.00	12,899.2	100.00	11,594.9	100.00	4,388.2	100.00	5,778.6	100.00	7,631.9	100.00
TOTAL TAXA RICHNESS	14		12		15		16		16		15		23		22		25	
EPT TAXA RICHNESS	0		0		1		1		1		1		2		2		3	

TABLE 3-95. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN THE CHICAGO SANITARY AND SHIP CANAL.

TAXA	75 CICERO AVE.						41 HARLEM AVE.						92 LOCKPORT					
	2006		2007		2008		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	--	--	--	--	--	--	--	--	2,196.1	1.93	43.1	0.88	--	--	--	--	--	--
Turbellaria	--	--	--	--	--	--	--	--	2,260.6	1.99	581.3	11.91	--	--	--	--	--	--
Oligochaeta	3,703.1	99.61	2,791.7	94.42	4,722.2	94.27	1,055.0	94.23	108,474.8	95.54	3,961.5	81.18	32,273.3	98.75	14,195.4	97.34	8,676.6	74.13
Helobdella stagnalis	--	--	--	--	14.4	0.29	--	--	71.8	0.06	--	--	--	--	--	--	--	--
Helobdella triserialis	--	--	--	--	--	--	--	--	21.5	0.02	--	--	--	--	--	--	--	--
Placobdella	--	--	21.5	0.73	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Caecidotea	--	--	--	--	--	--	--	--	35.9	0.03	--	--	--	--	--	--	--	--
Hyaella azteca	--	--	7.2	0.24	21.5	0.43	--	--	43.1	0.04	7.2	0.15	--	--	--	--	796.6	6.81
Gammarus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	272.7	2.33
Enallagma	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.06
Cyrtellus fraternus	--	--	--	--	--	--	--	--	7.2	0.01	7.2	0.15	--	--	--	--	7.2	0.06
Hydropsyche orris	--	--	--	--	--	--	--	--	--	--	7.2	0.15	--	--	--	--	--	--
Hydroptila	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	0.18
Procladius	--	--	14.4	0.49	21.5	0.43	--	--	--	--	21.5	0.44	93.3	0.29	157.9	1.08	28.7	0.25
Ablabesmyia janta	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	114.8	0.98
Cricotopus bicinctus grp.	--	--	--	--	--	--	7.2	0.64	--	--	--	--	--	--	--	--	43.1	0.37
Cricotopus sylvestris grp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	43.1	0.37
Nanocladius distinctus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	129.2	1.10
Chironomus	--	--	7.2	0.24	--	--	50.2	4.49	358.8	0.32	64.6	1.32	--	--	14.4	0.10	351.7	3.00
Cryptochironomus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	0.15	93.3	0.80
Dicrotendipes fumidus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.7	0.25
Dicrotendipes lucifer	--	--	--	--	--	--	--	--	28.7	0.03	35.9	0.74	--	--	--	--	746.4	6.38
Dicrotendipes simpsoni	--	--	--	--	14.4	0.29	--	--	14.4	0.01	143.5	2.94	--	--	--	--	43.1	0.37
Parachironomus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.4	0.12
Polypedilum illinoense	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.7	0.25
Cladotanytarsus mancus grp.	--	--	--	--	--	--	--	--	7.2	0.01	--	--	--	--	--	--	--	--
Physa	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.7	0.25
Corbicula fluminea	14.4	0.39	114.8	3.88	215.3	4.30	7.2	0.64	--	--	--	--	265.5	0.81	186.6	1.28	229.7	1.96
Eupera cubensis	--	--	--	--	--	--	--	--	14.4	0.01	--	--	--	--	--	--	--	--
Musculium	--	--	--	--	--	--	--	--	--	--	7.2	0.15	50.2	0.15	7.2	0.05	--	--
TOTAL BENTHOS	3,717.5	100.00	2,956.8	100.00	5,009.3	100.00	1,119.6	100.00	113,534.4	100.00	4,880.1	100.00	32,682.4	100.00	14,582.9	100.00	11,705.1	100.00
TOTAL TAXA RICHNESS	2		6		6		4		13		11		4		6		20	
EPT TAXA RICHNESS	0		0		0		0		1		2		0		0		2	

TABLE 3-96. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 64 WITHIN THE WEST BRANCH DUPAGE RIVER.

TAXA	64 LAKE ST.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Hydra	3.6	0.05	--	--	--	--
Turbellaria	224.3	3.39	233.2	1.56	1,175.1	10.91
Oligochaeta	1,300.7	19.68	269.1	1.80	4,978.5	46.23
Helobdella stagnalis	--	--	--	--	3.6	0.03
Helobdella triserialis	5.4	0.08	--	--	--	--
Mooreobdella microstoma	1.8	0.03	--	--	1.8	0.02
Caecidotea	28.7	0.43	--	--	96.9	0.90
Baetis intercalaris	1.8	0.03	--	--	12.6	0.12
Maccaffertium terminatum	--	--	--	--	9.0	0.08
Argia	9.0	0.14	--	--	--	--
Enallagma	--	--	--	--	1.8	0.02
Cheumatopsyche	958.0	14.50	753.5	5.04	118.4	1.10
Hydroptila	1.8	0.03	17.9	0.12	1.8	0.02
Stenelmis	1.8	0.03	--	--	--	--
Tanypus	--	--	--	--	25.1	0.23
Procladius	10.8	0.16	--	--	61.0	0.57
Ablabesmyia janta	10.8	0.16	129.2	0.86	--	--
Ablabesmyia mallochi	--	--	--	--	43.1	0.40
Thienemannimyia grp.	55.6	0.84	263.7	1.76	--	--
Thienemanniella xena	--	--	132.8	0.89	78.9	0.73
Cricotopus tremulus grp.	--	--	258.3	1.73	--	--
Cricotopus bicinctus grp.	314.0	4.75	405.5	2.71	78.9	0.73
Cricotopus sylvestris grp.	91.5	1.38	270.9	1.81	17.9	0.17
Nanocladius distinctus	306.8	4.64	--	--	694.3	6.45
Nanocladius minimus	--	--	2,201.3	14.72	--	--
Nanocladius crassicornus/rectinervis	93.3	1.41	--	--	--	--
Chironomus	91.5	1.38	134.6	0.90	48.4	0.45
Cladopelma	--	--	64.6	0.43	--	--
Cryptochironomus	--	--	--	--	25.1	0.23
Dicrotendipes modestus	50.2	0.76	--	--	53.8	0.50
Dicrotendipes neomodestus	59.2	0.90	--	--	17.9	0.17
Dicrotendipes lucifer	--	--	796.6	5.33	--	--
Dicrotendipes simpsoni	95.1	1.44	--	--	265.5	2.47
Endochironomus nigricans	35.9	0.54	129.2	0.86	150.7	1.40
Glyptotendipes	647.6	9.80	6,605.7	44.17	1,406.5	13.06
Parachironomus	78.9	1.19	68.2	0.46	66.4	0.62
Phaenopsectra obediens	--	--	--	--	25.1	0.23
Polypedilum flavum	1,668.5	25.24	608.2	4.07	35.9	0.33
Polypedilum illinoense	10.8	0.16	1,193.0	7.98	633.3	5.88
Polypedilum scalaenum grp.	--	--	--	--	17.9	0.17
Micropsectra	--	--	--	--	105.8	0.98
Paratanytarsus	197.3	2.99	132.8	0.89	285.3	2.65
Tanytarsus	10.8	0.16	--	--	--	--
Tanytarsus sepp	--	--	--	--	17.9	0.17
Simulium	17.9	0.27	287.0	1.92	--	--
Hemerodromia	--	--	--	--	5.4	0.05
Physa	1.8	0.03	--	--	--	--
Helisoma	224.3	3.39	--	--	--	--
Menetus	--	--	--	--	190.2	1.77
Ferrissia	--	--	--	--	17.9	0.17
TOTAL BENTHOS	6,609.3	100.00	14,955.1	100.00	10,767.9	100.00
TOTAL TAXA RICHNESS	32		21		35	
EPT TAXA RICHNESS	3		2		4	

TABLE 3-97. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 64 WITHIN THE WEST BRANCH DUPAGE RIVER.

TAXA	64 LAKE ST.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	--	--	21.5	0.42
Oligochaeta	222.5	32.29	--	--	4,083.5	79.14
Erpobdella punctata punctata	--	--	14.4	0.58	--	--
Caecidotea	7.2	1.04	--	--	--	--
Crangonyx	--	--	7.2	0.29	--	--
Cheumatopsyche	--	--	14.4	0.58	50.2	0.97
Hydroptila	--	--	--	--	7.2	0.14
Peltodytes	--	--	--	--	14.4	0.28
Tanypus	--	--	14.4	0.58	7.2	0.14
Procladius	21.5	3.12	93.3	3.77	86.1	1.67
Ablabesmyia janta	--	--	14.4	0.58	--	--
Thienemannimyia grp.	--	--	14.4	0.58	--	--
Thienemanniella xena	14.4	2.08	--	--	43.1	0.83
Cricotopus tremulus grp.	7.2	1.04	--	--	--	--
Cricotopus bicinctus grp.	93.3	13.54	71.8	2.90	86.1	1.67
Cricotopus sylvestris grp.	--	--	28.7	1.16	7.2	0.14
Nanocladius distinctus	--	--	21.5	0.87	28.7	0.56
Chironomus	172.2	25.00	610.0	24.64	93.3	1.81
Cladopelma	--	--	93.3	3.77	7.2	0.14
Cryptochironomus	50.2	7.29	437.8	17.68	258.4	5.01
Dicrotendipes neomodestus	--	--	71.8	2.90	35.9	0.70
Dicrotendipes fumidus	--	--	--	--	14.4	0.28
Dicrotendipes lucifer	--	--	86.1	3.48	--	--
Dicrotendipes simpsoni	--	--	21.5	0.87	--	--
Glyptotendipes	28.7	4.17	387.5	15.65	14.4	0.28
Parachironomus	--	--	14.4	0.58	--	--
Polypedilum flavum	28.7	4.17	--	--	--	--
Polypedilum halterale grp.	--	--	--	--	7.2	0.14
Polypedilum illinoense	--	--	71.8	2.90	43.1	0.83
Polypedilum scalaenum grp.	14.4	2.08	215.3	8.70	43.1	0.83
Cladotanytarsus mancus grp.	--	--	28.7	1.16	71.8	1.39
Paratanytarsus	--	--	43.1	1.74	50.2	0.97
Tanytarsus	--	--	21.5	0.87	21.5	0.42
Simulium	--	--	57.4	2.32	35.9	0.70
Physa	7.2	1.04	--	--	--	--
Helisoma	14.4	2.08	--	--	--	--
Menetus	--	--	--	--	7.2	0.14
Corbicula fluminea	7.2	1.04	21.5	0.87	7.2	0.14
Musculium	--	--	--	--	14.4	0.28
TOTAL BENTHOS	689.0	100.00	2,475.9	100.00	5,160.0	100.00
TOTAL TAXA RICHNESS	14		25		27	
EPT TAXA RICHNESS	0		1		1	

TABLE 3-98. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN SALT CREEK.

TAXA	SC1 BUSSE DAM				18 DEVON AVE.						SC3 THORNDALE AVE.					
	2006		2007		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	17.9	0.11	21.5	0.27	64.6	0.30	152.5	1.15	776.8	5.77	62.8	0.42	134.6	1.25	84.3	1.18
Turbellaria	950.8	5.61	120.2	1.53	213.5	0.99	744.5	5.62	2,068.5	15.37	269.1	1.81	161.5	1.49	10.8	0.15
Plumatella	--	--	--	--	--	--	--	--	--	--	1.8	0.01	--	--	--	--
Oligochaeta	915.0	5.40	479.0	6.08	13,433.8	62.20	2,430.9	18.36	807.3	6.00	502.3	3.38	726.6	6.73	136.3	1.91
Helobdella papillata	--	--	--	--	--	--	--	--	1.8	0.01	--	--	--	--	--	--
Helobdella triserialis	--	--	--	--	37.7	0.17	9.0	0.07	1.8	0.01	--	--	--	--	--	--
Ostracoda	35.9	0.21	26.9	0.34	39.5	0.18	--	--	--	--	--	--	--	--	--	--
Caecidotea	17.9	0.11	--	--	61.0	0.28	80.7	0.61	--	--	80.7	0.54	9.0	0.08	52.0	0.73
Hyalella azteca	--	--	--	--	--	--	--	--	--	--	--	--	5.4	0.05	--	--
Orconectes	--	--	--	--	5.4	0.02	--	--	--	--	--	--	--	--	--	--
Baetis intercalaris	17.9	0.11	--	--	1.8	0.01	17.9	0.14	19.7	0.15	--	--	5.4	0.05	5.4	0.08
Stenacron	--	--	--	--	--	--	9.0	0.07	--	--	--	--	9.0	0.08	--	1.8
Maccaffertium terminatum	--	--	--	--	--	--	--	--	1.8	0.01	--	--	--	--	10.8	0.15
Tricorythodes	--	--	9.0	0.11	3.6	0.02	116.6	0.88	405.5	3.01	71.8	0.48	143.5	1.33	376.7	5.28
Caenis	--	--	--	--	1.8	0.01	--	--	--	--	--	--	--	--	--	--
Argia	35.9	0.21	--	--	3.6	0.02	--	--	1.8	0.01	17.9	0.12	17.9	0.17	1.8	0.03
Enallagma	--	--	--	--	10.8	0.05	9.0	0.07	--	--	--	--	--	--	--	--
Cyrtoneurus fraternus	17.9	0.11	--	--	--	--	--	--	26.9	0.20	--	--	--	--	21.5	0.30
Cheumatopsyche	789.4	4.66	1,367.1	17.35	726.6	3.36	3,704.7	27.98	4,013.3	29.81	4,861.9	32.69	3,261.6	30.19	3,268.7	45.79
Hydropsyche	--	--	--	--	--	--	--	--	--	--	9.0	0.06	--	--	--	--
Hydropsyche betteni	--	--	--	--	--	--	--	--	1.8	0.01	--	--	--	--	7.2	0.10
Hydropsyche orris	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.10
Hydropsyche simulans	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10.8	0.15
Hydropsyche bidens	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1.8	0.03
Ceratopsyche morosa	--	--	--	--	--	--	9.0	0.07	--	--	53.8	0.36	14.4	0.13	14.4	0.20
Hydroptila	89.7	0.53	--	--	154.3	0.71	224.3	1.69	100.5	0.75	53.8	0.36	35.9	0.33	14.4	0.20
Nectopsyche	--	--	--	--	3.6	0.02	--	--	--	--	--	--	--	--	12.6	0.18
Oecetis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	3.6	0.05
Dubiraphia	--	--	--	--	5.4	0.02	9.0	0.07	3.6	0.03	17.9	0.12	17.9	0.17	17.9	0.25
Stenelmis	--	--	--	--	7.2	0.03	17.9	0.14	37.7	0.28	35.9	0.24	--	--	91.5	1.28
Ceratopogonidae	--	--	--	--	3.6	0.02	--	--	--	--	--	--	--	--	1.8	0.03
Procladius	--	--	--	--	70.0	0.32	--	--	10.8	0.08	--	--	--	--	26.9	0.38
Ablabesmyia janta	--	--	95.1	1.21	87.9	0.41	53.8	0.41	480.8	3.57	98.7	0.66	39.5	0.37	84.3	1.18
Ablabesmyia mallochii	--	--	--	--	52.0	0.24	26.9	0.20	--	--	53.8	0.36	--	--	--	--
Thienemannimyia grp.	71.8	0.42	9.0	0.11	156.1	0.72	349.8	2.64	430.6	3.20	618.9	4.16	358.8	3.32	497.0	6.96
Thienemanniella xena	71.8	0.42	--	--	17.9	0.08	--	--	244.0	1.81	35.9	0.24	209.9	1.94	16.1	0.23
Thienemanniella similis	--	--	--	--	--	--	--	--	--	--	71.8	0.48	--	--	--	--
Cricotopus tremulus grp.	--	--	--	--	--	--	53.8	0.41	--	--	--	--	93.3	0.86	16.1	0.23
Cricotopus bicinctus grp.	2,134.9	12.59	557.9	7.08	276.3	1.28	89.7	0.68	10.8	0.08	71.8	0.48	249.4	2.31	43.1	0.60
Cricotopus sylvestris grp.	448.5	2.65	491.6	6.24	364.2	1.69	89.7	0.68	10.8	0.08	53.8	0.36	116.6	1.08	--	--
Nanocladius	--	--	95.1	1.21	--	--	--	--	--	--	206.3	1.39	--	--	--	--
Nanocladius distinctus	71.8	0.42	--	--	694.3	3.21	610.0	4.61	159.7	1.19	915.0	6.15	906.0	8.39	77.1	1.08
Nanocladius crassicornus/rectinervis	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12.6	0.18
Rheocricotopus robacki	--	--	--	--	52.0	0.24	--	--	35.9	0.27	--	--	--	--	16.1	0.23
Chironomus	--	--	48.4	0.61	70.0	0.32	62.8	0.47	21.5	0.16	35.9	0.24	--	--	12.6	0.18
Cladopelma	--	--	--	--	52.0	0.24	--	--	--	--	--	--	--	--	--	--
Cryptochironomus	71.8	0.42	--	--	17.9	0.08	179.4	1.36	43.1	0.32	71.8	0.48	--	--	26.9	0.38
Dicrotendipes modestus	--	--	--	--	157.9	0.73	--	--	--	--	71.8	0.48	--	--	--	--

TABLE 3-98 (cont.)

TAXA	SC1 BUSSE DAM				18 DEVON AVE.				SC3 THORNDALE AVE.							
	2006		2007		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Dicrotendipes neomodestus	--	--	143.5	1.82	--	--	520.3	3.93	333.7	2.48	215.3	1.45	974.2	9.02	254.8	3.57
Dicrotendipes fumidus	2,475.8	14.60	43.1	0.55	52.0	0.24	--	--	--	--	--	--	43.1	0.40	--	--
Dicrotendipes lucifer	--	--	--	--	--	--	161.5	1.22	--	--	--	--	--	--	59.2	0.83
Dicrotendipes simpsoni	--	--	192.0	2.44	156.1	0.72	107.6	0.81	--	--	287.0	1.93	136.3	1.26	--	--
Endochironomus nigricans	--	--	--	--	70.0	0.32	89.7	0.68	--	--	--	--	78.9	0.73	--	--
Glyptotendipes	376.7	2.22	95.1	1.21	983.1	4.55	466.5	3.52	181.2	1.35	565.1	3.80	206.3	1.91	172.2	2.41
Harnischia	--	--	--	--	52.0	0.24	--	--	--	--	--	--	--	--	--	--
Parachironomus	--	--	48.4	0.61	400.1	1.85	116.6	0.88	35.9	0.27	89.7	0.60	170.4	1.58	--	--
Phaenopsectra obediens	663.8	3.92	--	--	17.9	0.08	--	--	139.9	1.04	71.8	0.48	--	--	12.6	0.18
Polypedilum flavum	376.7	2.22	1,873.0	23.78	364.2	1.69	843.2	6.37	2,203.1	16.36	4,242.9	28.52	1,745.6	16.16	1,435.2	20.11
Polypedilum halterale grp.	--	--	--	--	--	--	--	--	10.8	0.08	--	--	14.4	0.13	12.6	0.18
Polypedilum illinoense	7,032.7	41.48	2,039.8	25.89	1,135.6	5.26	1,022.6	7.72	123.8	0.92	574.1	3.86	226.0	2.09	52.0	0.73
Polypedilum scalaenum grp.	71.8	0.42	--	--	52.0	0.24	80.7	0.61	57.4	0.43	71.8	0.48	28.7	0.27	--	--
Stenochironomus	--	--	--	--	--	--	--	--	10.8	0.08	--	--	--	--	--	--
Stictochironomus	--	--	--	--	--	--	--	--	10.8	0.08	--	--	--	--	--	--
Cladotanytarsus mancus grp.	--	--	--	--	--	--	170.4	1.29	75.3	0.56	35.9	0.24	14.4	0.13	12.6	0.18
Paratanytarsus	71.8	0.42	95.1	1.21	959.8	4.44	421.6	3.18	35.9	0.27	107.6	0.72	53.8	0.50	12.6	0.18
Rheotanytarsus	--	--	--	--	--	--	--	--	197.3	1.47	53.8	0.36	--	--	12.6	0.18
Tanytarsus	--	--	--	--	70.0	0.32	--	--	21.5	0.16	125.6	0.84	--	--	43.1	0.60
Tanytarsus glabrescens grp.	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16.1	0.23
Tanytarsus sepp	--	--	--	--	--	--	--	--	--	--	--	--	43.1	0.40	--	--
Simulium	--	--	--	--	--	--	9.0	0.07	226.0	1.68	--	--	44.9	0.42	9.0	0.13
Hemerodromia	--	--	--	--	3.6	0.02	17.9	0.14	37.7	0.28	--	--	--	--	10.8	0.15
Physa	17.9	0.11	9.0	0.11	1.8	0.01	--	--	--	--	--	--	--	--	--	--
Helisoma	71.8	0.42	--	--	172.2	0.80	--	--	16.1	0.12	17.9	0.12	--	--	--	--
Menetus	--	--	--	--	--	--	--	--	--	--	--	--	5.4	0.05	--	--
Ferrissia	35.9	0.21	17.9	0.23	116.6	0.54	161.5	1.22	25.1	0.19	71.8	0.48	502.3	4.65	39.5	0.55
Corbicula fluminea	--	--	--	--	107.6	0.50	--	--	3.6	0.03	--	--	--	--	1.8	0.03
Musculium	--	--	--	--	35.9	0.17	--	--	--	--	--	--	--	--	--	--
TOTAL BENTHOS	16,953.7	100.00	7,877.6	100.00	21,596.7	100.00	13,240.0	100.00	13,462.5	100.00	14,874.4	100.00	10,803.7	100.00	7,138.5	100.00
TOTAL TAXA RICHNESS	24		22		49		37		44		39		36		49	
EPT TAXA RICHNESS	4		2		6		6		7		5		6		14	

TABLE 3-99. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN SALT CREEK.

TAXA	SC1 BUSSE DAM				18 DEVON AVE.						SC3 THORNDALE AVE.					
	2006		2007		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Hydra	71.8	0.17	--	--	--	--	--	--	--	--	--	--	35.9	0.14	--	--
Turbellaria	71.8	0.17	--	--	--	--	--	--	--	--	143.5	0.08	--	--	--	--
Oligochaeta	6,387.2	14.71	1,779.8	4.28	5,554.7	77.40	1,241.6	4.85	3,538.1	55.08	170,358.9	95.13	3,688.8	14.49	997.6	34.66
Helobdella triserialis	--	--	--	--	--	--	--	--	--	--	71.8	0.04	--	--	--	--
Ostracoda	--	--	--	--	--	--	--	--	--	--	71.8	0.04	28.7	0.11	--	--
Caecidotea	--	--	107.6	0.26	--	--	--	--	--	--	14.4	0.01	--	--	--	--
Tricorythodes	--	--	--	--	--	--	7.2	0.03	28.7	0.45	71.8	0.04	--	--	--	--
Cheumatopsyche	--	--	610.0	1.47	14.4	0.20	57.4	0.22	93.3	1.45	2,052.5	1.15	904.3	3.55	43.1	1.50
Hydroptila	143.5	0.33	--	--	--	--	--	--	--	--	143.5	0.08	35.9	0.14	--	--
Nectopsyche	--	--	--	--	--	--	7.2	0.03	--	--	--	--	--	--	--	--
Oecetis	--	--	--	--	--	--	--	--	--	--	--	--	35.9	0.14	--	--
Dubiraphia	--	--	71.8	0.17	43.1	0.60	21.5	0.08	--	--	71.8	0.04	129.2	0.51	--	--
Stenelmis	--	--	--	--	--	--	--	--	21.5	0.34	645.9	0.36	143.5	0.56	--	--
Procladius	--	--	--	--	21.5	0.30	--	--	--	--	--	--	--	--	86.1	2.99
Ablabesmyia janta	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.25
Ablabesmyia mallochii	--	--	--	--	--	--	--	--	--	--	--	--	--	--	21.5	0.75
Thienemannimyia grp.	--	--	--	--	7.2	0.10	--	--	114.8	1.79	21.5	0.01	157.9	0.62	14.4	0.50
Thienemanniella xena	179.4	0.41	--	--	--	--	28.7	0.11	--	--	143.5	0.08	157.9	0.62	--	--
Thienemanniella lobapodema	--	--	--	--	--	--	--	--	--	--	7.2	0.00	--	--	--	--
Cricotopus tremulus grp.	--	--	--	--	--	--	--	--	--	--	--	--	373.2	1.47	--	--
Cricotopus bicinctus grp.	2,942.4	6.78	861.2	2.07	35.9	0.50	129.2	0.50	--	--	43.1	0.02	--	--	21.5	0.75
Cricotopus sylvestris grp.	179.4	0.41	--	--	7.2	0.10	208.1	0.81	--	--	71.8	0.04	--	--	--	--
Nanocladius distinctus	--	--	78.9	0.19	--	--	50.2	0.20	--	--	7.2	0.00	--	--	--	--
Nanocladius crassicornus/rectinervis	--	--	--	--	--	--	--	--	21.5	0.34	--	--	--	--	--	--
Chironomus	430.6	0.99	78.9	0.19	35.9	0.50	--	--	14.4	0.22	--	--	--	--	43.1	1.50
Cladopelma	--	--	--	--	7.2	0.10	--	--	--	--	--	--	--	--	--	--
Cryptochironomus	179.4	0.41	1,241.6	2.99	423.4	5.90	2,145.8	8.39	818.1	12.74	638.7	0.36	2,597.9	10.21	330.1	11.47
Cryptotendipes	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.25
Dicrotendipes modestus	--	--	--	--	7.2	0.10	--	--	--	--	7.2	0.00	--	--	--	--
Dicrotendipes neomodestus	--	--	2,124.3	5.11	--	--	416.2	1.63	143.5	2.23	7.2	0.00	940.1	3.69	315.8	10.97
Dicrotendipes fumidus	14,568.6	33.55	3,825.1	9.21	7.2	0.10	28.7	0.11	35.9	0.56	--	--	--	--	--	--
Dicrotendipes lucifer	--	--	244.0	0.59	--	--	--	--	--	--	--	--	--	--	14.4	0.50
Einfeldia natchitochaeae	--	--	552.6	1.33	--	--	--	--	--	--	--	--	--	--	--	--
Endochironomus nigricans	--	--	--	--	--	--	--	--	--	--	--	--	430.6	1.69	--	--
Glyptotendipes	--	--	2,676.9	6.44	7.2	0.10	--	--	--	--	--	--	--	--	--	--
Harnischia	--	--	--	--	28.7	0.40	--	--	--	--	--	--	114.8	0.45	--	--
Parachironomus	--	--	78.9	0.19	7.2	0.10	28.7	0.11	--	--	--	--	--	--	--	--
Paracladopelma	--	--	--	--	--	--	--	--	--	--	--	--	--	--	57.4	2.00
Paralauterborniella nigrohalteralis	--	--	--	--	--	--	--	--	71.8	1.12	--	--	--	--	--	--
Paratendipes	--	--	165.1	0.40	--	--	--	--	14.4	0.22	--	--	--	--	50.2	1.75
Phaenopsectra obediens	825.3	1.90	--	--	7.2	0.10	--	--	--	--	7.2	0.00	--	--	--	--
Polypedilum flavum	--	--	1,858.7	4.47	7.2	0.10	107.6	0.42	272.7	4.25	674.6	0.38	430.6	1.69	21.5	0.75
Polypedilum halterale grp.	--	--	--	--	50.2	0.70	50.2	0.20	150.7	2.35	445.0	0.25	1,492.7	5.86	57.4	2.00
Polypedilum illinoense	10,693.2	24.63	1,456.9	3.51	57.4	0.80	78.9	0.31	--	--	35.9	0.02	--	--	43.1	1.50
Polypedilum scalaenum grp.	538.2	1.24	495.2	1.19	78.9	1.10	287.1	1.12	552.6	8.60	509.5	0.28	552.6	2.17	409.1	14.21
Pseudochironomus	1,040.6	2.40	3,172.1	7.64	14.4	0.20	78.9	0.31	21.5	0.34	7.2	0.00	57.4	0.23	--	--
Stictochironomus	--	--	--	--	71.8	1.00	--	--	7.2	0.11	71.8	0.04	--	--	57.4	2.00
Cladotanytarsus mancus grp.	4,880.1	11.24	19,018.1	45.78	466.5	6.50	20,259.6	79.19	179.4	2.79	1,320.5	0.74	12,939.5	50.83	150.7	5.24

TABLE 3-99 (cont.)

TAXA	SC1 BUSSE DAM				18 DEVON AVE.						SC3 THORNDALE AVE.					
	2006		2007		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Paratanytarsus	--	--	739.2	1.78	28.7	0.40	236.8	0.93	--	--	--	--	57.4	0.23	--	--
Tanytarsus	--	--	--	--	--	--	--	--	--	--	315.8	0.18	--	--	--	--
Tanytarsus sepp	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.7	1.00
Simulium	--	--	--	--	--	--	7.2	0.03	--	--	71.8	0.04	71.8	0.28	--	--
Physa	--	--	--	--	--	--	--	--	--	--	71.8	0.04	--	--	--	--
Helisoma	143.5	0.33	--	--	21.5	0.30	--	--	--	--	--	--	--	--	--	--
Ferrissia	--	--	71.8	0.17	7.2	0.10	7.2	0.03	7.2	0.11	358.8	0.20	--	--	14.4	0.50
Corbicula fluminea	143.5	0.33	229.7	0.55	150.7	2.10	100.5	0.39	244.0	3.80	602.8	0.34	78.9	0.31	86.1	2.99
Musculium	--	--	--	--	--	--	--	--	7.2	0.11	--	--	--	--	--	--
Pisidium	--	--	--	--	7.2	0.10	--	--	64.6	1.01	--	--	--	--	--	--
TOTAL BENTHOS	43,418.6	100.00	41,538.4	100.00	7,176.6	100.00	25,584.7	100.00	6,423.1	100.00	179,085.7	100.00	25,455.5	100.00	2,877.8	100.00
TOTAL TAXA RICHNESS	17		23		28		23		22		32		23		23	
EPT TAXA RICHNESS	1		1		1		3		2		3		3		1	

TABLE 3-100. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 78 WITHIN HIGGINS CREEK.

TAXA	78 WILLE RD.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Hydra	17.9	0.29	26.9	0.09	--	--
Turbellaria	179.4	2.89	484.4	1.68	25.1	0.11
Plumatella	--	--	1.8	0.01	--	--
Oligochaeta	794.8	12.80	4,476.1	15.48	943.7	4.00
Helobdella triserialis	23.3	0.38	--	--	--	--
Erpobdella punctata punctata	--	--	35.9	0.12	--	--
Mooreobdella microstoma	3.6	0.06	--	--	--	--
Ostracoda	--	--	35.9	0.12	--	--
Caecidotea	1,026.2	16.53	13,473.3	46.59	11,410.1	48.35
Procambarus	--	--	9.0	0.03	--	--
Enallagma	5.4	0.09	--	--	--	--
Boyeria vinosa	5.4	0.09	--	--	--	--
Cheumatopsyche	--	--	9.0	0.03	1.8	0.01
Thienemanniella xena	--	--	--	--	127.4	0.54
Cricotopus tremulus grp.	55.6	0.90	--	--	--	--
Cricotopus bicinctus grp.	3,060.6	49.31	8,354.9	28.89	9,277.0	39.31
Cricotopus sylvestris grp.	482.6	7.77	1,239.7	4.29	1,492.6	6.32
Nanocladius distinctus	70.0	1.13	--	--	147.1	0.62
Nanocladius crassicornus/rectinervis	328.3	5.29	--	--	--	--
Rheocricotopus robacki	--	--	--	--	5.4	0.02
Chironomus	55.6	0.90	114.8	0.40	--	--
Dicrotendipes neomodestus	7.2	0.12	138.1	0.48	5.4	0.02
Harnischia	--	--	46.6	0.16	--	--
Parachironomus	48.4	0.78	23.3	0.08	--	--
Polypedilum illinoense	--	--	195.6	0.68	127.4	0.54
Paratanytarsus	21.5	0.35	--	--	--	--
Simulium	--	--	--	--	28.7	0.12
Physa	16.1	0.26	242.2	0.84	9.0	0.04
Ferrissia	5.4	0.09	9.0	0.03	--	--
TOTAL BENTHOS	6,207.4	100.00	28,916.4	100.00	23,600.6	100.00
TOTAL TAXA RICHNESS	19		18		13	
EPT TAXA RICHNESS	0		1		1	

TABLE 3-101. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR SAMPLING STATION 78 WITHIN HIGGINS CREEK.

TAXA	78 WILLE RD.					
	2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%
Turbellaria	330.1	0.67	1,959.2	2.93	86.1	0.06
Plumatella	--	--	7.2	0.01	--	--
Oligochaeta	6,222.1	12.68	13,291.1	19.85	61,676.0	44.16
Haemopis	--	--	--	--	7.2	0.01
Erpobdella punctata punctata	--	--	265.5	0.40	--	--
Mooreobdella microstoma	28.7	0.06	--	--	43.1	0.03
Ostracoda	--	--	631.5	0.94	--	--
Caecidotea	2,956.8	6.02	5,849.0	8.74	11,439.6	8.19
Hydracarina	--	--	7.2	0.01	--	--
Cheumatopsyche	--	--	--	--	7.2	0.01
Hydroptila	7.2	0.01	--	--	--	--
Laccophilus maculosus	--	--	14.4	0.02	--	--
Procladius	--	--	129.2	0.19	--	--
Thienemannimyia grp.	287.1	0.58	459.3	0.69	889.9	0.64
Cricotopus tremulus grp.	1,406.6	2.87	330.1	0.49	--	--
Cricotopus bicinctus grp.	34,555.5	70.39	35,632.0	53.22	57,449.0	41.14
Cricotopus trifascia grp.	--	--	--	--	222.5	0.16
Cricotopus sylvestris grp.	1,873.1	3.82	6,602.5	9.86	5,368.1	3.84
Nanocladius distinctus	--	--	--	--	2,239.1	1.60
Nanocladius crassicornus/rectinervis	93.3	0.19	--	--	--	--
Chironomus	1,313.3	2.68	509.5	0.76	--	--
Dicrotendipes neomodestus	--	--	251.2	0.38	--	--
Parachironomus	--	--	129.2	0.19	--	--
Polypedilum flavum	--	--	--	--	222.5	0.16
Polypedilum illinoense	--	--	129.2	0.19	--	--
Paratanytarsus	--	--	129.2	0.19	--	--
Simulium	--	--	7.2	0.01	7.2	0.01
Amnicola	--	--	7.2	0.01	--	--
Physa	14.4	0.03	545.4	0.81	--	--
Menetus	--	--	14.4	0.02	--	--
Pisidium	--	--	50.2	0.08	--	--
TOTAL BENTHOS	49,088.2	100.00	66,950.8	100.00	139,657.3	100.00
TOTAL TAXA RICHNESS	12		23		13	
EPT TAXA RICHNESS	1		0		1	

TABLE 3-102. COMPARISON OF HESTER-DENDY DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER.

TAXA	13 LAKE COOK RD.						22 OGDEN AVE.						91 MATERIAL SERVICE RD.					
	2006		2007		2008		2006		2008		2006		2007		2008			
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%		
Hydra	1.8	0.02	53.8	0.79	--	--	26.9	0.37	--	--	--	--	--	--	--	--		
Turbellaria	57.4	0.54	35.9	0.53	1,453.2	27.01	98.7	1.37	138.1	1.13	421.6	3.56	532.8	5.38	2,682.1	14.93		
Plumatella	1.8	0.02	--	--	--	--	--	--	--	--	3.6	0.03	1.8	0.02	--	--		
Oligochaeta	563.3	5.34	349.8	5.13	35.9	0.67	1,279.2	17.73	148.9	1.22	242.2	2.05	247.6	2.50	367.8	2.05		
Helobdella stagnalis	28.7	0.27	16.1	0.24	--	--	--	--	--	--	--	--	--	--	--	--		
Ostracoda	--	--	48.4	0.71	--	--	--	--	--	--	--	--	89.7	0.91	--	--		
Caecidotea	--	--	7.2	0.11	--	--	12.6	0.17	--	--	--	--	--	--	--	--		
Gammarus	105.8	1.00	258.3	3.79	53.8	1.00	244.0	3.38	12.6	0.10	17.9	0.15	9.0	0.09	--	--		
Orconectes rusticus	--	--	--	--	--	--	--	--	17.9	0.15	--	--	--	--	--	--		
Procambarus	--	--	3.6	0.05	--	--	--	--	--	--	--	--	--	--	--	--		
Hydracarina	--	--	--	--	--	--	26.9	0.37	--	--	--	--	--	--	--	--		
Baetis intercalaris	161.5	1.53	448.5	6.58	62.8	1.17	145.3	2.01	830.6	6.80	233.2	1.97	358.8	3.62	358.8	2.00		
Centroptilum	--	--	1.8	0.03	--	--	--	--	--	--	--	--	--	--	--	--		
Leucrocuta	35.9	0.34	--	--	9.0	0.17	--	--	--	--	--	--	--	--	--	--		
Stenacron	--	--	44.9	0.66	139.9	2.60	35.9	0.50	48.4	0.40	--	--	--	--	--	--		
Maccaffertium integrum	340.9	3.23	233.2	3.42	68.2	1.27	--	--	--	--	--	--	--	--	--	--		
Maccaffertium terminatum	--	--	--	--	14.4	0.27	--	--	--	--	--	--	--	--	--	--		
Tricorythodes	305.0	2.89	349.8	5.13	229.6	4.27	39.5	0.55	102.3	0.84	--	--	--	--	17.9	0.10		
Anthopotamus myops grp.	--	--	9.0	0.13	9.0	0.17	--	--	--	--	--	--	--	--	--	--		
Hexagenia	--	--	1.8	0.03	--	--	--	--	--	--	--	--	--	--	--	--		
Argia	17.9	0.17	10.8	0.16	--	--	12.6	0.17	--	--	--	--	--	--	--	--		
Enallagma	7.2	0.07	1.8	0.03	--	--	--	--	5.4	0.04	--	--	9.0	0.09	--	--		
Trepobates	--	--	--	--	5.4	0.10	--	--	--	--	--	--	--	--	--	--		
Rhagovelia	--	--	--	--	--	--	--	--	--	--	--	--	--	--	17.9	0.10		
Corixidae	--	--	1.8	0.03	--	--	--	--	--	--	--	--	--	--	--	--		
Sialis	--	--	1.8	0.03	--	--	--	--	--	--	--	--	--	--	--	--		
Cyrenellus fraternus	1.8	0.02	--	--	--	--	--	--	12.6	0.10	--	--	--	--	--	--		
Cheumatopsyche	1,727.7	16.37	1,517.8	22.27	2,131.3	39.61	3,437.4	47.64	6,596.7	54.02	1,273.8	10.76	2,158.2	21.79	4,341.6	24.16		
Hydropsyche	--	--	986.7	14.48	--	--	--	--	--	--	116.6	0.99	66.4	0.67	--	--		
Hydropsyche betteni	--	--	--	--	--	--	10.8	0.15	120.2	0.98	--	--	--	--	--	--		
Hydropsyche orris	--	--	17.9	0.26	--	--	--	--	--	--	322.9	2.73	32.3	0.33	--	--		
Hydropsyche simulans	848.6	8.04	--	--	211.7	3.93	--	--	--	--	179.4	1.52	1,153.6	11.64	1,363.5	7.59		
Hydropsyche bidens	287.0	2.72	170.4	2.50	--	--	17.9	0.25	--	--	--	--	--	--	511.3	2.85		
Ceratopsyche morosa	--	--	--	--	--	--	84.3	1.17	2,870.5	23.51	331.9	2.80	254.8	2.57	1,300.7	7.24		
Hydroptila	107.6	1.02	--	--	--	--	35.9	0.50	--	--	--	--	17.9	0.18	--	--		
Nectopsyche	--	--	9.0	0.13	--	--	--	--	--	--	--	--	--	--	--	--		
Dubiraphia	41.3	0.39	28.7	0.42	--	--	--	--	--	--	--	--	--	--	--	--		
Macronychus glabratus	30.5	0.29	1.8	0.03	--	--	--	--	--	--	--	--	--	--	9.0	0.05		
Stenelmis	--	--	--	--	9.0	0.17	--	--	--	--	--	--	--	--	--	--		
Ceratopogonidae	--	--	3.6	0.05	--	--	--	--	--	--	--	--	--	--	--	--		
Procladius	--	--	9.0	0.13	5.4	0.10	3.6	0.05	--	--	--	--	--	--	--	--		
Ablabesmyia janta	16.1	0.15	--	--	--	--	9.0	0.12	--	--	--	--	--	--	--	--		
Ablabesmyia mallochii	--	--	53.8	0.79	--	--	--	--	--	--	--	--	--	--	--	--		
Labrundinia	--	--	--	--	--	--	--	--	48.4	0.40	--	--	--	--	--	--		
Thienemannimyia grp.	206.3	1.96	129.2	1.90	50.2	0.93	53.8	0.75	48.4	0.40	44.9	0.38	39.5	0.40	--	--		
Corynoneura	--	--	--	--	--	--	7.2	0.10	--	--	--	--	--	--	--	--		
Corynoneura lobata	--	--	--	--	44.9	0.83	--	--	41.3	0.34	--	--	--	--	--	--		

TABLE 3-102 (cont.)

TAXA	13 LAKE COOK RD.						22 OGDEN AVE.						91 MATERIAL SERVICE RD.					
	2006		2007		2008		2006		2008		2006		2007		2008			
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%		
Thienemanniella xena	125.6	1.19	39.5	0.58	--	--	35.9	0.50	17.9	0.15	80.7	0.68	--	--	--	--		
Thienemanniella similis	197.3	1.87	12.6	0.18	--	--	--	--	--	--	--	--	9.0	0.09	35.9	0.20		
Thienemanniella lobapodema	--	--	--	--	--	--	96.9	1.34	--	--	80.7	0.68	--	--	--	--		
Cricotopus tremulus grp.	71.8	0.68	39.5	0.58	--	--	--	--	--	--	--	--	--	--	--	--		
Cricotopus bicinctus grp.	1,004.7	9.52	66.4	0.97	--	--	61.0	0.85	12.6	0.10	44.9	0.38	--	--	--	--		
Cricotopus sylvestris grp.	--	--	--	--	--	--	3.6	0.05	5.4	0.04	--	--	--	--	--	--		
Nanocladius distinctus	136.3	1.29	154.3	2.26	--	--	114.8	1.59	35.9	0.29	44.9	0.38	120.2	1.21	269.1	1.50		
Nanocladius crassicornus/rectinervis	125.6	1.19	--	--	--	--	12.6	0.17	5.4	0.04	314.0	2.65	--	--	161.5	0.90		
Rheocricotopus robacki	448.5	4.25	80.7	1.18	71.8	1.33	249.4	3.46	107.6	0.88	--	--	--	--	--	--		
Tvetenia discoloripes grp.	--	--	--	--	--	--	--	--	17.9	0.15	--	--	--	--	--	--		
Cryptochironomus	--	--	--	--	--	--	3.6	0.05	--	--	--	--	--	--	--	--		
Dicrotendipes neomodestus	82.5	0.78	12.6	0.18	5.4	0.10	3.6	0.05	--	--	--	--	39.5	0.40	--	--		
Dicrotendipes lucifer	46.6	0.44	26.9	0.39	--	--	--	--	--	--	--	--	9.0	0.09	--	--		
Endochironomus nigricans	--	--	9.0	0.13	--	--	--	--	--	--	--	--	--	--	--	--		
Glyptotendipes	448.5	4.25	346.3	5.08	17.9	0.33	--	--	--	--	--	--	--	--	71.8	0.40		
Harnischia	46.6	0.44	9.0	0.13	--	--	--	--	--	--	--	--	--	--	--	--		
Microtendipes	7.2	0.07	12.6	0.18	23.3	0.43	--	--	--	--	--	--	--	--	--	--		
Parachironomus	--	--	44.9	0.66	--	--	--	--	5.4	0.04	--	--	39.5	0.40	--	--		
Paratendipes	7.2	0.07	9.0	0.13	--	--	--	--	--	--	--	--	--	--	--	--		
Phaenopsectra obediens	--	--	--	--	5.4	0.10	--	--	--	--	--	--	--	--	--	--		
Phaenopsectra punctipes	7.2	0.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Polypedilum fallax grp.	--	--	--	--	--	--	3.6	0.05	--	--	--	--	--	--	--	--		
Polypedilum flavum	1,585.9	15.03	771.4	11.32	624.3	11.60	638.7	8.85	932.9	7.64	6,341.9	53.58	2,870.5	28.98	5,956.2	33.15		
Polypedilum halterale grp.	7.2	0.07	--	--	--	--	9.0	0.12	--	--	--	--	--	--	--	--		
Polypedilum illinoense	--	--	--	--	--	--	12.6	0.17	--	--	--	--	--	--	--	--		
Polypedilum scalaenum grp.	78.9	0.75	100.5	1.47	9.0	0.17	89.7	1.24	23.3	0.19	--	--	39.5	0.40	--	--		
Stenochironomus	--	--	--	--	--	--	9.0	0.12	--	--	--	--	--	--	--	--		
Stictochironomus	--	--	--	--	--	--	3.6	0.05	--	--	--	--	--	--	--	--		
Tribelos fuscicorne	--	--	17.9	0.26	--	--	--	--	--	--	--	--	--	--	--	--		
Tribelos jucundum	16.1	0.15	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Cladotanytarsus mancus grp.	--	--	17.9	0.26	--	--	--	--	--	--	--	--	--	--	--	--		
Cladotanytarsus vanderwulpi grp.	71.8	0.68	--	--	17.9	0.33	--	--	--	--	--	--	--	--	--	--		
Paratanytarsus	78.9	0.75	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Rheotanytarsus	940.1	8.91	183.0	2.68	71.8	1.33	3.6	0.05	5.4	0.04	1,722.3	14.55	1,650.5	16.66	493.4	2.75		
Tanytarsus glabrescens grp.	78.9	0.75	26.9	0.39	--	--	--	--	--	--	--	--	--	--	--	--		
Simulium	--	--	--	--	--	--	--	--	--	--	--	--	131.0	1.32	--	--		
Pleurocera	--	--	--	--	--	--	52.0	0.72	--	--	--	--	--	--	--	--		
Physa	3.6	0.03	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Helisoma	1.8	0.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Ferrissia	3.6	0.03	--	--	--	--	229.6	3.18	--	--	--	--	26.9	0.27	9.0	0.05		
Corbicula fluminea	16.1	0.15	28.7	0.42	--	--	--	--	--	--	17.9	0.15	--	--	--	--		
Musculium	17.9	0.17	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
Pisidium	1.8	0.02	--	--	--	--	1.8	0.02	--	--	--	--	--	--	--	--		
TOTAL BENTHOS	10,552.6	100.00	6,815.6	100.00	5,380.3	100.00	7,215.6	100.00	12,212.1	100.00	11,835.3	100.00	9,906.7	100.00	17,967.3	100.00		
TOTAL TAXA RICHNESS	49		51		26		39		26		19		24		17			
EPT TAXA RICHNESS	9		12		9		8		7		6		7		6			

TABLE 3-103. COMPARISON OF PETITE PONAR DENSITIES AMONG 2006, 2007, AND 2008 FOR EACH SAMPLING STATION WITHIN THE DES PLAINES RIVER.

TAXA	13 LAKE COOK RD.						22 OGDEN AVE.						91 MATERIAL SERVICE RD.					
	2006		2007		2008		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Turbellaria	--	--	--	--	--	--	165.1	8.04	172.2	6.90	1,141.1	11.95	--	--	28.7	0.13	--	--
Oligochaeta	9,171.7	58.30	1,291.8	14.47	2,440.1	70.10	559.8	27.27	602.8	24.14	1,636.3	17.13	2,203.2	80.79	18,888.9	83.32	1,514.3	40.11
Helobdella stagnalis	--	--	--	--	--	--	14.4	0.70	--	--	28.7	0.30	28.7	1.05	78.9	0.35	--	--
Helobdella triserialis	--	--	--	--	--	--	--	--	14.4	0.57	--	--	--	--	--	--	--	--
Mooreobdella microstoma	--	--	--	--	--	--	7.2	0.35	--	--	--	--	172.2	6.32	35.9	0.16	--	--
Ostracoda	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1,873.1	8.26	--	--
Caecidotea	--	--	--	--	--	--	--	--	--	--	14.4	0.15	7.2	0.26	14.4	0.06	--	--
Hyaella azteca	--	--	--	--	21.5	0.62	--	--	--	--	--	--	--	--	--	--	--	--
Gammarus	136.4	0.87	--	--	--	--	150.7	7.34	21.5	0.86	114.8	1.20	35.9	1.32	775.1	3.42	272.7	7.22
Crangonyx	--	--	35.9	0.40	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Orconectes rusticus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.19
Hydracarina	--	--	--	--	--	--	--	--	--	--	7.2	0.08	--	--	--	--	--	--
Baetis intercalaris	--	--	--	--	--	--	14.4	0.70	14.4	0.57	--	--	--	--	--	--	--	--
Tricorythodes	93.3	0.59	122.0	1.37	--	--	--	--	14.4	0.57	394.7	4.13	--	--	--	--	7.2	0.19
Caenis	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.26	--	--	--	--
Hexagenia	--	--	7.2	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ephoron	14.4	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Argia	--	--	--	--	--	--	7.2	0.35	--	--	--	--	--	--	--	--	--	--
Enallagma	14.4	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Gomphidae	--	--	--	--	7.2	0.21	--	--	--	--	--	--	--	--	--	--	--	--
Stylurus	14.4	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Corixidae	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93.3	0.41	21.5	0.57
Cheumatopsyche	236.8	1.51	2,009.5	22.51	57.4	1.65	122.0	5.94	14.4	0.57	911.4	9.54	--	--	--	--	86.1	2.28
Hydropsyche simulans	7.2	0.05	--	--	71.8	2.06	--	--	--	--	--	--	--	--	--	--	--	--
Hydropsyche bidens	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.19
Hydroptila	21.5	0.14	--	--	--	--	14.4	0.70	--	--	--	--	--	--	7.2	0.03	--	--
Ceraclea maculata	--	--	7.2	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dubiraphia	14.4	0.09	7.2	0.08	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Macronychus glabratus	14.4	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Stenelmis	28.7	0.18	7.2	0.08	7.2	0.21	71.8	3.50	7.2	0.29	14.4	0.15	28.7	1.05	--	--	50.2	1.33
Ceratopogonidae	--	--	--	--	--	--	7.2	0.35	--	--	--	--	--	--	--	--	--	--
Tanypus	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.09	--	--
Procladius	--	--	--	--	14.4	0.41	--	--	--	--	--	--	--	--	71.8	0.32	229.7	6.08
Ablabesmyia janta	21.5	0.14	--	--	--	--	7.2	0.35	--	--	--	--	--	--	--	--	--	--
Ablabesmyia mallochii	--	--	--	--	--	--	14.4	0.70	--	--	64.6	0.68	--	--	--	--	--	--
Ablabesmyia annulata	14.4	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Labrundinia	--	--	--	--	--	--	--	--	--	--	50.2	0.53	--	--	--	--	--	--
Thienemannimyia grp.	236.8	1.51	373.2	4.18	7.2	0.21	43.1	2.10	14.4	0.57	71.8	0.75	--	--	--	--	--	--
Thienemanniella xena	--	--	--	--	7.2	0.21	7.2	0.35	21.5	0.86	--	--	--	--	--	--	--	--
Thienemanniella similis	--	--	--	--	--	--	--	--	7.2	0.29	--	--	--	--	--	--	--	--
Thienemanniella lobapodema	--	--	--	--	--	--	78.9	3.85	--	--	--	--	--	--	--	--	--	--
Cricotopus bicinctus grp.	21.5	0.14	--	--	--	--	--	--	--	--	--	--	7.2	0.26	--	--	107.6	2.85
Cricotopus trifascia grp.	--	--	--	--	--	--	7.2	0.35	--	--	--	--	--	--	--	--	--	--
Cricotopus sylvestris grp.	7.2	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nanocladius crass./rect.	21.5	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rheocricotopus robacki	--	--	86.1	0.96	--	--	7.2	0.35	--	--	--	--	--	--	--	--	--	--
Chironomus	28.7	0.18	--	--	7.2	0.21	--	--	--	--	--	--	64.6	2.37	717.7	3.17	150.7	3.99
Cryptochironomus	480.8	3.06	222.5	2.49	107.6	3.09	--	--	7.2	0.29	172.2	1.80	21.5	0.79	--	--	28.7	0.76

TABLE 3-103 (cont.)

TAXA	13 LAKE COOK RD.						22 OGDEN AVE.						91 MATERIAL SERVICE RD.					
	2006		2007		2008		2006		2007		2008		2006		2007		2008	
	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%	#/m2	%
Dicrotendipes neomodestus	57.4	0.36	--	--	--	--	--	--	--	--	--	--	14.4	0.53	--	--	136.4	3.61
Endochironomus nigricans	7.2	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Glyptotendipes	28.7	0.18	21.5	0.24	--	--	--	--	--	--	--	--	--	--	--	--	28.7	0.76
Harnischia	21.5	0.14	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.19
Microtendipes	445.0	2.83	645.9	7.23	28.7	0.82	--	--	--	--	--	--	--	--	--	--	--	--
Parachironomus	--	--	--	--	--	--	--	--	--	--	7.2	0.08	--	--	--	--	--	--
Paracladopelma	--	--	--	--	14.4	0.41	--	--	--	--	--	--	--	--	--	--	--	--
Paratendipes	7.2	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	14.4	0.38
Phaenopsectra flavipes	--	--	--	--	7.2	0.21	--	--	--	--	--	--	--	--	--	--	--	--
Polypedilum flavum	107.6	0.68	122.0	1.37	14.4	0.41	35.9	1.75	7.2	0.29	93.3	0.98	35.9	1.32	--	--	839.7	22.24
Polypedilum halterale grp.	244.0	1.55	--	--	200.9	5.77	--	--	--	--	--	--	--	--	--	--	14.4	0.38
Polypedilum illinoense	--	--	28.7	0.32	--	--	21.5	1.05	7.2	0.29	--	--	7.2	0.26	7.2	0.03	86.1	2.28
Polypedilum scalaenum grp.	--	--	703.3	7.88	143.5	4.12	14.4	0.70	14.4	0.57	1,155.4	12.10	--	--	--	--	43.1	1.14
Saetheria	--	--	--	--	35.9	1.03	--	--	--	--	--	--	--	--	--	--	--	--
Cladotanytarsus mancus grp.	445.0	2.83	2,167.3	24.28	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cladotanytarsus vand. grp.	1,177.0	7.48	--	--	179.4	5.15	7.2	0.35	--	--	337.3	3.53	--	--	--	--	--	--
Paratanytarsus	78.9	0.50	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Rheotanytarsus	143.5	0.91	--	--	--	--	--	--	--	--	--	--	21.5	0.79	--	--	35.9	0.95
Tanytarsus	2,066.9	13.14	--	--	--	--	--	--	--	--	7.2	0.08	--	--	--	--	--	--
Tanytarsus glabrescens grp.	--	--	631.5	7.07	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Valvata	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.03	--	--
Amnicola	--	--	--	--	--	--	7.2	0.35	--	--	7.2	0.08	7.2	0.26	--	--	--	--
Pleurocera	--	--	--	--	--	--	7.2	0.35	--	--	--	--	--	--	--	--	--	--
Physa	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	0.03	14.4	0.38
Helisoma	7.2	0.05	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ferrissia	--	--	--	--	--	--	21.5	1.05	--	--	7.2	0.08	--	--	--	--	--	--
Corbicula fluminea	279.9	1.78	387.5	4.34	57.4	1.65	617.2	30.07	1,557.3	62.36	3,315.6	34.71	28.7	1.05	43.1	0.19	43.1	1.14
Sphaerium	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	28.7	0.76
Musculium	--	--	--	--	--	--	--	--	--	--	--	--	35.9	1.32	--	--	--	--
Pisidium	14.4	0.09	50.2	0.56	50.2	1.44	21.5	1.05	--	--	--	--	--	--	--	--	--	--
TOTAL BENTHOS	15,731.2	100.00	8,927.7	100.00	3,480.7	100.00	2,052.5	100.00	2,497.5	100.00	9,552.1	100.00	2,727.1	100.00	22,671.0	100.00	3,774.9	100.00
TOTAL TAXA RICHNESS	36		20		21		27		16		21		17		16		24	
EPT TAXA RICHNESS	5		4		2		3		3		2		1		1		3	

Appendix A

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= C.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 59,
 and DATE= 24JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	2	7.2	0.37	13	46.6	2.02
Turbellaria	1	3.6	0.19	0	0.0	0.00
Oligochaeta	123	441.3	22.82	106	380.3	16.46
Caecidotea	2	7.2	0.37	7	25.1	1.09
Hyalella azteca	0	0.0	0.00	8	28.7	1.24
Gammarus	23	82.5	4.27	30	107.6	4.66
Argia	0	0.0	0.00	1	3.6	0.16
Cyrenellus fraternus	3	10.8	0.56	7	25.1	1.09
Procladius	33	118.4	6.12	0	0.0	0.00
Cricotopus sylvestris grp.	0	0.0	0.00	4	14.4	0.62
Nanocladius distinctus	44	157.9	8.16	22	78.9	3.42
Dicrotendipes neomodestus	0	0.0	0.00	9	32.3	1.40
Dicrotendipes lucifer	207	742.7	38.40	243	871.9	37.73
Dicrotendipes simpsoni	91	326.5	16.88	168	602.8	26.09
Glyptotendipes	0	0.0	0.00	4	14.4	0.62
Paratanytarsus	4	14.4	0.74	4	14.4	0.62
Helisoma	1	3.6	0.19	1	3.6	0.16
Ferrissia	0	0.0	0.00	6	21.5	0.93
Corbicula fluminea	3	10.8	0.56	8	28.7	1.24
Musculium	1	3.6	0.19	0	0.0	0.00
Dreissena rostriformis	1	3.6	0.19	3	10.8	0.47
TOTAL BENTHOS	539	1,934.0	100.00	644	2,310.7	100.00

WATERWAY= C.S.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 75,
 and DATE= 04AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	7	25.1	0.48	5	17.9	0.16
Turbellaria	160	574.1	10.89	555	1,991.4	17.79
Oligochaeta	1,190	4,269.8	81.01	2,185	7,840.0	70.03
Helobdella	3	10.8	0.20	0	0.0	0.00
Ostracoda	0	0.0	0.00	5	17.9	0.16
Hyalella azteca	7	25.1	0.48	15	53.8	0.48
Gammarus	3	10.8	0.20	0	0.0	0.00
Procladius	3	10.8	0.20	0	0.0	0.00
Ablabesmyia janta	3	10.8	0.20	0	0.0	0.00
Nanocladius distinctus	0	0.0	0.00	25	89.7	0.80
Dicrotendipes lucifer	33	118.4	2.25	100	358.8	3.21
Dicrotendipes simpsoni	60	215.3	4.08	220	789.4	7.05
Physa	0	0.0	0.00	5	17.9	0.16
Helisoma	0	0.0	0.00	5	17.9	0.16
TOTAL BENTHOS	1,469	5,270.9	100.00	3,120	11,194.8	100.00

WATERWAY= C.S.S.C.,
 LOCATION= DAMEN AVE.,
 STATION= 40,
 and DATE= 02AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	1	3.6	1.05	9	32.3	1.49
Oligochaeta	94	337.3	98.95	281	1,008.3	46.37
Hyalella azteca	0	0.0	0.00	56	200.9	9.24
Orconectes	0	0.0	0.00	1	3.6	0.17
Cyrenellus fraternus	0	0.0	0.00	108	387.5	17.82
Procladius	0	0.0	0.00	3	10.8	0.50
Ablabesmyia janta	0	0.0	0.00	3	10.8	0.50
Dicrotendipes lucifer	0	0.0	0.00	42	150.7	6.93
Dicrotendipes simpsoni	0	0.0	0.00	98	351.6	16.17
Glyptotendipes	0	0.0	0.00	2	7.2	0.33
Helisoma	0	0.0	0.00	2	7.2	0.33
Corbicula fluminea	0	0.0	0.00	1	3.6	0.17
TOTAL BENTHOS	95	340.9	100.00	606	2,174.4	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= C.S.S.C.,
 LOCATION= HARLEM AVE.,
 STATION= 41,
 and DATE= 04AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	10	35.9	0.15	30	107.6	0.50
Turbellaria	940	3,372.8	14.55	960	3,444.6	15.97
Oligochaeta	5,080	18,227.5	78.64	2,445	8,772.9	40.68
Ostracoda	0	0.0	0.00	15	53.8	0.25
Hyalella azteca	10	35.9	0.15	885	3,175.5	14.73
Cyrenellus fraternus	30	107.6	0.46	40	143.5	0.67
Ablabesmyia janta	0	0.0	0.00	30	107.6	0.50
Nanocladius distinctus	0	0.0	0.00	30	107.6	0.50
Chironomus	10	35.9	0.15	0	0.0	0.00
Dicrotendipes lucifer	120	430.6	1.86	355	1,273.8	5.91
Dicrotendipes simpsoni	250	897.0	3.87	1,080	3,875.1	17.97
Glyptotendipes	0	0.0	0.00	15	53.8	0.25
Xenochironomus xenolabis	0	0.0	0.00	15	53.8	0.25
Helisoma	10	35.9	0.15	15	53.8	0.25
Ferrissia	0	0.0	0.00	5	17.9	0.08
Eupera cubensis	0	0.0	0.00	90	322.9	1.50
TOTAL BENTHOS	6,460	23,179.0	100.00	6,010	21,564.4	100.00

WATERWAY= C.S.S.C.,
 LOCATION= LOCKPORT,
 STATION= 92,
 and DATE= 25JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	504	1,808.4	28.97	3	10.8	0.42
Turbellaria	465	1,668.5	26.72	34	122.0	4.82
Nemertea	0	0.0	0.00	1	3.6	0.14
Oligochaeta	164	588.4	9.43	220	789.4	31.16
Helobdella stagnalis	43	154.3	2.47	1	3.6	0.14
Mooreobdella microstoma	2	7.2	0.11	0	0.0	0.00
Hyalella azteca	31	111.2	1.78	84	301.4	11.90
Gammarus	148	531.0	8.51	42	150.7	5.95
Cyrenellus fraternus	6	21.5	0.34	16	57.4	2.27
Cheumatopsyche	0	0.0	0.00	1	3.6	0.14
Stenelmis crenata grp.	0	0.0	0.00	1	3.6	0.14
Ablabesmyia mallochi	48	172.2	2.76	0	0.0	0.00
Nanocladius distinctus	3	10.8	0.17	105	376.7	14.87
Dicrotendipes neomodestus	0	0.0	0.00	3	10.8	0.42
Dicrotendipes lucifer	177	635.1	10.17	126	452.1	17.85
Dicrotendipes simpsoni	106	380.3	6.09	59	211.7	8.36
Glyptotendipes	0	0.0	0.00	6	21.5	0.85
Xenochironomus xenolabis	0	0.0	0.00	3	10.8	0.42
Physa	3	10.8	0.17	0	0.0	0.00
Helisoma	1	3.6	0.06	0	0.0	0.00
Ferrissia	0	0.0	0.00	1	3.6	0.14
Corbicula fluminea	34	122.0	1.95	0	0.0	0.00
Eupera cubensis	5	17.9	0.29	0	0.0	0.00
TOTAL BENTHOS	1,740	6,243.3	100.00	706	2,533.2	100.00

WATERWAY= C.S.S.C.,
 LOCATION= ROUTE 83, STATION= 42, and DATE= 28AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	7	25.1	0.77	2	7.2	0.45
Turbellaria	93	333.7	10.25	12	43.1	2.68
Oligochaeta	608	2,181.6	67.03	269	965.2	60.04
Helobdella stagnalis	18	64.6	1.98	2	7.2	0.45
Caecidotea	8	28.7	0.88	0	0.0	0.00
Hyalella azteca	2	7.2	0.22	3	10.8	0.67
Cyrenellus fraternus	52	186.6	5.73	89	319.3	19.87
Hydropsyche orris	2	7.2	0.22	0	0.0	0.00
Ablabesmyia janta	30	107.6	3.31	5	17.9	1.12
Nanocladius distinctus	8	28.7	0.88	2	7.2	0.45
Dicrotendipes lucifer	25	89.7	2.76	13	46.6	2.90
Dicrotendipes simpsoni	37	132.8	4.08	28	100.5	6.25
Stenochironomus	2	7.2	0.22	0	0.0	0.00
Xenochironomus xenolabis	2	7.2	0.22	0	0.0	0.00
Helisoma	0	0.0	0.00	14	50.2	3.13
Ferrissia	8	28.7	0.88	0	0.0	0.00
Eupera cubensis	5	17.9	0.55	9	32.3	2.01
TOTAL BENTHOS	907	3,254.4	100.00	448	1,607.5	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= CALUMET R.,
 LOCATION= 130TH ST.,
 STATION= 55,
 and DATE= 29JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	125	448.5	7.67	180	645.9	9.78
Gammarus	135	484.4	8.28	5	17.9	0.27
Echinogammarus ischusa	50	179.4	3.07	255	915.0	13.86
Orconectes	0	0.0	0.00	5	17.9	0.27
Cricotopus bicinctus grp.	5	17.9	0.31	0	0.0	0.00
Nanocladius distinctus	5	17.9	0.31	25	89.7	1.36
Rheocricotopus robacki	5	17.9	0.31	0	0.0	0.00
Glyptotendipes	5	17.9	0.31	0	0.0	0.00
Parachironomus	10	35.9	0.61	0	0.0	0.00
Polypedilum flavum	5	17.9	0.31	5	17.9	0.27
Rheotanytarsus	0	0.0	0.00	10	35.9	0.54
Ferrissia	0	0.0	0.00	5	17.9	0.27
Dreissena polymorpha	0	0.0	0.00	40	143.5	2.17
Dreissena rostriformis	1,285	4,610.7	78.83	1,310	4,700.4	71.20
TOTAL BENTHOS	1,630	5,848.6	100.00	1,840	6,602.1	100.00

WATERWAY= CHICAGO R.,
 LOCATION= LAKE SHORE DR.,
 STATION= 74,
 and DATE= 26JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	5	17.9	0.82	3	10.8	0.29
Turbellaria	3	10.8	0.49	0	0.0	0.00
Oligochaeta	100	358.8	16.37	30	107.6	2.90
Hyalella azteca	1	3.6	0.16	2	7.2	0.19
Gammarus	23	82.5	3.76	25	89.7	2.42
Hydroptila	0	0.0	0.00	3	10.8	0.29
Procladius	1	3.6	0.16	0	0.0	0.00
Cricotopus bicinctus grp.	1	3.6	0.16	4	14.4	0.39
Heterotrissocladius	1	3.6	0.16	0	0.0	0.00
Nanocladius distinctus	5	17.9	0.82	1	3.6	0.10
Chironomus	2	7.2	0.33	0	0.0	0.00
Cladopelma	1	3.6	0.16	1	3.6	0.10
Dicrotendipes neomodestus	3	10.8	0.49	2	7.2	0.19
Dicrotendipes fumidus	7	25.1	1.15	3	10.8	0.29
Dicrotendipes simpsoni	1	3.6	0.16	0	0.0	0.00
Glyptotendipes	3	10.8	0.49	1	3.6	0.10
Microchironomus	1	3.6	0.16	0	0.0	0.00
Microtendipes	1	3.6	0.16	0	0.0	0.00
Parachironomus	0	0.0	0.00	5	17.9	0.48
Paratendipes	0	0.0	0.00	3	10.8	0.29
Polypedilum flavum	1	3.6	0.16	0	0.0	0.00
Polypedilum halterale grp.	8	28.7	1.31	12	43.1	1.16
Pseudochironomus	1	3.6	0.16	0	0.0	0.00
Paratanytarsus	1	3.6	0.16	0	0.0	0.00
Rheotanytarsus	0	0.0	0.00	1	3.6	0.10
Tanytarsus sepp	0	0.0	0.00	1	3.6	0.10
Xenochironomus xenolabis	1	3.6	0.16	0	0.0	0.00
Helisoma	5	17.9	0.82	4	14.4	0.39
Corbicula fluminea	1	3.6	0.16	0	0.0	0.00
Dreissena rostriformis	434	1,557.2	71.03	934	3,351.3	90.24
TOTAL BENTHOS	611	2,192.3	100.00	1,035	3,713.7	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= CHICAGO R., LOCATION= WELLS ST., STATION= 100, and DATE= 27JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	0	0.0	0.00	27	96.9	10.00
Oligochaeta	1,263	4,531.8	78.64	120	430.6	44.44
Desserobdella phalera	0	0.0	0.00	1	3.6	0.37
Caecidotea	0	0.0	0.00	2	7.2	0.74
Hyaella azteca	3	10.8	0.19	33	118.4	12.22
Hydroptila	0	0.0	0.00	1	3.6	0.37
Procladius	0	0.0	0.00	1	3.6	0.37
Ablabesmyia mallochi	0	0.0	0.00	1	3.6	0.37
Thienemanniella lobapodema	3	10.8	0.19	0	0.0	0.00
Cricotopus bicinctus grp.	0	0.0	0.00	9	32.3	3.33
Nanocladius distinctus	17	61.0	1.06	0	0.0	0.00
Chironomus	7	25.1	0.44	0	0.0	0.00
Dicrotendipes neomodestus	0	0.0	0.00	1	3.6	0.37
Dicrotendipes fumidus	0	0.0	0.00	2	7.2	0.74
Dicrotendipes lucifer	37	132.8	2.30	17	61.0	6.30
Dicrotendipes simpsoni	137	491.6	8.53	4	14.4	1.48
Endochironomus nigricans	3	10.8	0.19	0	0.0	0.00
Glyptotendipes	130	466.5	8.09	6	21.5	2.22
Parachironomus	3	10.8	0.19	3	10.8	1.11
Paratendipes	0	0.0	0.00	1	3.6	0.37
Phaenopsectra obediens	0	0.0	0.00	1	3.6	0.37
Paratanytarsus	3	10.8	0.19	0	0.0	0.00
Xenochironomus xenolabis	0	0.0	0.00	1	3.6	0.37
Physa	0	0.0	0.00	9	32.3	3.33
Helisoma	0	0.0	0.00	22	78.9	8.15
Dreissena rostriformis	0	0.0	0.00	8	28.7	2.96
TOTAL BENTHOS	1,606	5,762.5	100.00	270	968.8	100.00

WATERWAY= DES PLAINES R., LOCATION= LAKE COOK RD., STATION= 13, and DATE= 20JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	1	3.6	0.12
Turbellaria	20	71.8	0.39	12	43.1	1.50
Plumatella	1	3.6	0.02	0	0.0	0.00
Oligochaeta	110	394.7	2.16	204	732.0	25.47
Helobdella stagnalis	0	0.0	0.00	16	57.4	2.00
Gammarus	20	71.8	0.39	39	139.9	4.87
Baetis intercalaris	90	322.9	1.77	0	0.0	0.00
Leucrocota	20	71.8	0.39	0	0.0	0.00
Maccaffertium integrum	190	681.7	3.74	0	0.0	0.00
Tricorythodes	160	574.1	3.15	10	35.9	1.25
Argia	0	0.0	0.00	10	35.9	1.25
Enallagma	0	0.0	0.00	4	14.4	0.50
Cyrenellus fraternus	0	0.0	0.00	1	3.6	0.12
Cheumatopsyche	930	3,336.9	18.30	33	118.4	4.12
Hydropsyche simulans	470	1,686.4	9.25	3	10.8	0.37
Hydropsyche bidens	160	574.1	3.15	0	0.0	0.00
Hydroptila	60	215.3	1.18	0	0.0	0.00
Dubiraphia	0	0.0	0.00	23	82.5	2.87
Macronychus glabratus	10	35.9	0.20	7	25.1	0.87
Ablabesmyia janta	0	0.0	0.00	9	32.3	1.12
Thienemannimyia grp.	80	287.0	1.57	35	125.6	4.37
Thienemanniella xena	70	251.2	1.38	0	0.0	0.00
Thienemanniella similis	110	394.7	2.16	0	0.0	0.00
Cricotopus tremulus grp.	40	143.5	0.79	0	0.0	0.00
Cricotopus bicinctus grp.	560	2,009.3	11.02	0	0.0	0.00
Nanocladius distinctus	50	179.4	0.98	26	93.3	3.25
Nanocladius crassicornus/rectinervis	70	251.2	1.38	0	0.0	0.00
Rheocricotopus robacki	250	897.0	4.92	0	0.0	0.00
Dicrotendipes neomodestus	20	71.8	0.39	26	93.3	3.25
Dicrotendipes lucifer	0	0.0	0.00	26	93.3	3.25
Glyptotendipes	20	71.8	0.39	230	825.3	28.71
Harnischia	0	0.0	0.00	26	93.3	3.25
Microtendipes	0	0.0	0.00	4	14.4	0.50
Paratendipes	0	0.0	0.00	4	14.4	0.50
Phaenopsectra punctipes	0	0.0	0.00	4	14.4	0.50
Polypedilum flavum	880	3,157.5	17.32	4	14.4	0.50
Polypedilum halterale grp.	0	0.0	0.00	4	14.4	0.50
Polypedilum scalaenum grp.	40	143.5	0.79	4	14.4	0.50
Tribelos jucundum	0	0.0	0.00	9	32.3	1.12
Cladotanytarsus vanderwulpi grp.	40	143.5	0.79	0	0.0	0.00
Paratanytarsus	40	143.5	0.79	4	14.4	0.50
Rheotanytarsus	520	1,865.8	10.23	4	14.4	0.50
Tanytarsus glabrescens grp.	40	143.5	0.79	4	14.4	0.50
Physa	0	0.0	0.00	2	7.2	0.25
Helisoma	0	0.0	0.00	1	3.6	0.12
Ferrissia	0	0.0	0.00	2	7.2	0.25
Corbicula fluminea	0	0.0	0.00	9	32.3	1.12
Musculium	10	35.9	0.20	0	0.0	0.00
Pisidium	0	0.0	0.00	1	3.6	0.12
TOTAL BENTHOS	5,081	18,231.1	100.00	801	2,874.1	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= DES PLAINES R.,
 LOCATION= MATERIAL SERVICE RD.,
 STATION= 91,
 and DATE= 13JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	145	520.3	3.86	90	322.9	3.17
Plumatella	1	3.6	0.03	1	3.6	0.04
Oligochaeta	95	340.9	2.53	40	143.5	1.41
Gammarus	10	35.9	0.27	0	0.0	0.00
Baetis intercalaris	80	287.0	2.13	50	179.4	1.76
Cheumatopsyche	620	2,224.6	16.51	90	322.9	3.17
Hydropsyche	25	89.7	0.67	40	143.5	1.41
Hydropsyche orris	120	430.6	3.19	60	215.3	2.11
Hydropsyche simulans	30	107.6	0.80	70	251.2	2.46
Ceratopsyche morosa	145	520.3	3.86	40	143.5	1.41
Thienemannimyia grp.	25	89.7	0.67	0	0.0	0.00
Thienemanniella xena	25	89.7	0.67	20	71.8	0.70
Thienemanniella lobapodema	25	89.7	0.67	20	71.8	0.70
Cricotopus bicinctus grp.	25	89.7	0.67	0	0.0	0.00
Nanocladius distinctus	25	89.7	0.67	0	0.0	0.00
Nanocladius crassicornus/rectinervis	125	448.5	3.33	50	179.4	1.76
Polypedilum flavum	1,915	6,871.2	50.99	1,620	5,812.7	57.02
Rheotanytarsus	320	1,148.2	8.52	640	2,296.4	22.53
Corbicula fluminea	0	0.0	0.00	10	35.9	0.35
TOTAL BENTHOS	3,756	13,476.9	100.00	2,841	10,193.8	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= OGDEN AVE.,
 STATION= 22,
 and DATE= 22JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	15	53.8	0.49	0	0.0	0.00
Turbellaria	50	179.4	1.64	5	17.9	0.51
Oligochaeta	65	233.2	2.13	648	2,325.1	66.67
Caecidotea	5	17.9	0.16	2	7.2	0.21
Gammarus	95	340.9	3.11	41	147.1	4.22
Hydracarina	15	53.8	0.49	0	0.0	0.00
Baetis intercalaris	80	287.0	2.62	1	3.6	0.10
Stenacron	10	35.9	0.33	10	35.9	1.03
Tricorythodes	20	71.8	0.66	2	7.2	0.21
Argia	0	0.0	0.00	7	25.1	0.72
Cheumatopsyche	1,865	6,691.8	61.15	51	183.0	5.25
Hydropsyche betteni	5	17.9	0.16	1	3.6	0.10
Hydropsyche bidens	10	35.9	0.33	0	0.0	0.00
Ceratopsyche morosa	45	161.5	1.48	2	7.2	0.21
Hydroptila	20	71.8	0.66	0	0.0	0.00
Procladius	0	0.0	0.00	2	7.2	0.21
Ablabesmyia janta	0	0.0	0.00	5	17.9	0.51
Thienemannimyia grp.	25	89.7	0.82	5	17.9	0.51
Corynoneura	0	0.0	0.00	4	14.4	0.41
Thienemanniella xena	20	71.8	0.66	0	0.0	0.00
Thienemanniella lobapodema	40	143.5	1.31	14	50.2	1.44
Cricotopus bicinctus grp.	20	71.8	0.66	14	50.2	1.44
Cricotopus sylvestris grp.	0	0.0	0.00	2	7.2	0.21
Nanocladius distinctus	25	89.7	0.82	39	139.9	4.01
Nanocladius crassicornus/rectinervis	0	0.0	0.00	7	25.1	0.72
Rheocricotopus robacki	120	430.6	3.93	19	68.2	1.95
Cryptochironomus	0	0.0	0.00	2	7.2	0.21
Dicrotendipes neomodestus	0	0.0	0.00	2	7.2	0.21
Polypedilum fallax grp.	0	0.0	0.00	2	7.2	0.21
Polypedilum flavum	345	1,237.9	11.31	11	39.5	1.13
Polypedilum halterale grp.	0	0.0	0.00	5	17.9	0.51
Polypedilum illinoense	0	0.0	0.00	7	25.1	0.72
Polypedilum scalaenum grp.	25	89.7	0.82	25	89.7	2.57
Stenochironomus	5	17.9	0.16	0	0.0	0.00
Stictochironomus	0	0.0	0.00	2	7.2	0.21
Rheotanytarsus	0	0.0	0.00	2	7.2	0.21
Pleurocera	0	0.0	0.00	29	104.1	2.98
Ferrissia	125	448.5	4.10	3	10.8	0.31
Pisidium	0	0.0	0.00	1	3.6	0.10
TOTAL BENTHOS	3,050	10,943.7	100.00	972	3,487.6	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= HIGGINS CR.,
 LOCATION= WILLE RD.,
 STATION= 78,
 and DATE= 13JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	10	35.9	0.37	0	0.0	0.00
Turbellaria	43	154.3	1.61	57	204.5	7.22
Oligochaeta	370	1,327.6	13.85	73	261.9	9.25
Helobdella triserialis	10	35.9	0.37	3	10.8	0.38
Mooreobdella microstoma	0	0.0	0.00	2	7.2	0.25
Caecidotea	320	1,148.2	11.98	252	904.2	31.94
Enallagma	3	10.8	0.11	0	0.0	0.00
Boyeria vinosa	3	10.8	0.11	0	0.0	0.00
Cricotopus tremulus grp.	27	96.9	1.01	4	14.4	0.51
Cricotopus bicinctus grp.	1,423	5,105.8	53.28	283	1,015.4	35.87
Cricotopus sylvestris grp.	200	717.6	7.49	69	247.6	8.75
Nanocladius distinctus	27	96.9	1.01	12	43.1	1.52
Nanocladius crassicornus/rectinervis	171	613.6	6.40	12	43.1	1.52
Chironomus	27	96.9	1.01	4	14.4	0.51
Dicrotendipes neomodestus	0	0.0	0.00	4	14.4	0.51
Parachironomus	27	96.9	1.01	0	0.0	0.00
Paratanytarsus	0	0.0	0.00	12	43.1	1.52
Physa	7	25.1	0.26	2	7.2	0.25
Ferrissia	3	10.8	0.11	0	0.0	0.00
TOTAL BENTHOS	2,671	9,583.8	100.00	789	2,831.0	100.00

WATERWAY= L.C.R.,
 LOCATION= HALSTED ST.,
 STATION= 76,
 and DATE= 21JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	2,450	8,790.8	47.76	747	2,680.3	32.71
Oligochaeta	1,150	4,126.3	22.42	40	143.5	1.75
Caecidotea	0	0.0	0.00	7	25.1	0.31
Gammarus	140	502.3	2.73	70	251.2	3.06
Cyrenellus fraternus	10	35.9	0.19	17	61.0	0.74
Cheumatopsyche	0	0.0	0.00	7	25.1	0.31
Procladius	10	35.9	0.19	13	46.6	0.57
Ablabesmyia janta	0	0.0	0.00	13	46.6	0.57
Cricotopus bicinctus grp.	30	107.6	0.58	0	0.0	0.00
Cricotopus sylvestris grp.	40	143.5	0.78	0	0.0	0.00
Nanocladius distinctus	140	502.3	2.73	37	132.8	1.62
Dicrotendipes lucifer	500	1,794.0	9.75	373	1,338.4	16.33
Dicrotendipes simpsoni	530	1,901.7	10.33	807	2,895.6	35.33
Glyptotendipes	10	35.9	0.19	0	0.0	0.00
Polypedilum halterale grp.	10	35.9	0.19	0	0.0	0.00
Physa	10	35.9	0.19	0	0.0	0.00
Helisoma	0	0.0	0.00	10	35.9	0.44
Ferrissia	10	35.9	0.19	43	154.3	1.88
Corbicula fluminea	30	107.6	0.58	23	82.5	1.01
Dreissena rostriformis	60	215.3	1.17	77	276.3	3.37
TOTAL BENTHOS	5,130	18,406.9	100.00	2,284	8,195.2	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= N.B.C.R.,
 LOCATION= ALBANY AVE.,
 STATION= 96,
 and DATE= 18JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	2	7.2	0.33
Oligochaeta	23	82.5	2.47	53	190.2	8.63
Caecidotea	13	46.6	1.40	118	423.4	19.22
Gammarus	230	825.3	24.73	220	789.4	35.83
Orconectes immunis	1	3.6	0.11	0	0.0	0.00
Baetis intercalaris	6	21.5	0.65	0	0.0	0.00
Stenacron	10	35.9	1.08	57	204.5	9.28
Cheumatopsyche	291	1,044.1	31.29	16	57.4	2.61
Hydropsyche	0	0.0	0.00	5	17.9	0.81
Hydropsyche orris	0	0.0	0.00	4	14.4	0.65
Ceratopsyche morosa	1	3.6	0.11	3	10.8	0.49
Alotanypus	0	0.0	0.00	1	3.6	0.16
Procladius	0	0.0	0.00	4	14.4	0.65
Thienemannimyia grp.	29	104.1	3.12	4	14.4	0.65
Corynoneura	0	0.0	0.00	1	3.6	0.16
Thienemanniella xena	85	305.0	9.14	1	3.6	0.16
Cricotopus bicinctus grp.	21	75.3	2.26	2	7.2	0.33
Nanocladius distinctus	81	290.6	8.71	1	3.6	0.16
Rheocricotopus robacki	71	254.8	7.63	0	0.0	0.00
Chironomus	0	0.0	0.00	4	14.4	0.65
Cryptochironomus	0	0.0	0.00	3	10.8	0.49
Dicrotendipes lucifer	7	25.1	0.75	1	3.6	0.16
Dicrotendipes simpsoni	10	35.9	1.08	0	0.0	0.00
Glyptotendipes	7	25.1	0.75	0	0.0	0.00
Phaenopsectra punctipes	0	0.0	0.00	1	3.6	0.16
Polypedilum fallax grp.	0	0.0	0.00	2	7.2	0.33
Polypedilum flavum	17	61.0	1.83	1	3.6	0.16
Polypedilum illinoense	3	10.8	0.32	0	0.0	0.00
Polypedilum scalaenum grp.	21	75.3	2.26	61	218.9	9.93
Stenochironomus	0	0.0	0.00	3	10.8	0.49
Paratanytarsus	3	10.8	0.32	14	50.2	2.28
Ferrissia	0	0.0	0.00	30	107.6	4.89
Musculium	0	0.0	0.00	2	7.2	0.33
TOTAL BENTHOS	930	3,336.9	100.00	614	2,203.1	100.00

WATERWAY= N.B.C.R.,
 LOCATION= GRAND AVE.,
 STATION= 46,
 and DATE= 11JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	245	879.1	8.32	5	17.9	0.24
Turbellaria	150	538.2	5.09	5	17.9	0.24
Oligochaeta	2,065	7,409.4	70.12	1,850	6,638.0	87.47
Helobdella	20	71.8	0.68	0	0.0	0.00
Caecidotea	20	71.8	0.68	0	0.0	0.00
Hyalella azteca	90	322.9	3.06	50	179.4	2.36
Gammarus	30	107.6	1.02	5	17.9	0.24
Nanocladius distinctus	30	107.6	1.02	5	17.9	0.24
Chironomus	10	35.9	0.34	5	17.9	0.24
Dicrotendipes neomodestus	5	17.9	0.17	0	0.0	0.00
Dicrotendipes lucifer	25	89.7	0.85	25	89.7	1.18
Dicrotendipes simpsoni	145	520.3	4.92	120	430.6	5.67
Glyptotendipes	70	251.2	2.38	25	89.7	1.18
Parachironomus	10	35.9	0.34	0	0.0	0.00
Phaenopsectra punctipes	10	35.9	0.34	0	0.0	0.00
Polypedilum illinoense	5	17.9	0.17	5	17.9	0.24
Polypedilum scalaenum grp.	0	0.0	0.00	10	35.9	0.47
Rheotanytarsus	0	0.0	0.00	5	17.9	0.24
Helisoma	10	35.9	0.34	0	0.0	0.00
Ferrissia	5	17.9	0.17	0	0.0	0.00
TOTAL BENTHOS	2,945	10,566.9	100.00	2,115	7,588.8	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= N.S.C., LOCATION= TOUHY AVE., STATION= 36, and DATE= 10JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	483	1,733.0	69.30	230	825.3	3.61
Turbellaria	27	96.9	3.87	340	1,219.9	5.34
Oligochaeta	66	236.8	9.47	3,390	12,163.6	53.22
Ostracoda	1	3.6	0.14	0	0.0	0.00
Caecidotea	42	150.7	6.03	430	1,542.9	6.75
Hyalella azteca	1	3.6	0.14	300	1,076.4	4.71
Gammarus	2	7.2	0.29	50	179.4	0.78
Ablabesmyia janta	1	3.6	0.14	0	0.0	0.00
Cricotopus bicinctus grp.	1	3.6	0.14	0	0.0	0.00
Cricotopus sylvestris grp.	7	25.1	1.00	60	215.3	0.94
Nanocladius distinctus	5	17.9	0.72	80	287.0	1.26
Chironomus	4	14.4	0.57	30	107.6	0.47
Cryptotendipes	1	3.6	0.14	0	0.0	0.00
Dicrotendipes fumidus	6	21.5	0.86	0	0.0	0.00
Dicrotendipes lucifer	1	3.6	0.14	50	179.4	0.78
Dicrotendipes simpsoni	6	21.5	0.86	230	825.3	3.61
Glyptotendipes	40	143.5	5.74	1,030	3,695.7	16.17
Parachironomus	2	7.2	0.29	120	430.6	1.88
Helisoma	0	0.0	0.00	30	107.6	0.47
Ferrissia	1	3.6	0.14	0	0.0	0.00
TOTAL BENTHOS	697	2,500.9	100.00	6,370	22,856.1	100.00

WATERWAY= S.B.C.R., LOCATION= LOOMIS ST., STATION= 108, and DATE= 02AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	9	32.3	1.91	0	0.0	0.00
Turbellaria	17	61.0	3.62	10	35.9	2.79
Oligochaeta	171	613.6	36.38	140	502.3	39.00
Caecidotea	2	7.2	0.43	0	0.0	0.00
Hyalella azteca	13	46.6	2.77	3	10.8	0.84
Gammarus	1	3.6	0.21	0	0.0	0.00
Cyrenellus fraternus	52	186.6	11.06	45	161.5	12.53
Procladius	2	7.2	0.43	0	0.0	0.00
Ablabesmyia janta	4	14.4	0.85	0	0.0	0.00
Nanocladius distinctus	9	32.3	1.91	3	10.8	0.84
Dicrotendipes modestus	2	7.2	0.43	0	0.0	0.00
Dicrotendipes lucifer	76	272.7	16.17	62	222.5	17.27
Dicrotendipes simpsoni	76	272.7	16.17	54	193.8	15.04
Glyptotendipes	4	14.4	0.85	9	32.3	2.51
Polypedilum illinoense	2	7.2	0.43	0	0.0	0.00
Xenochironomus xenolabis	2	7.2	0.43	1	3.6	0.28
Helisoma	5	17.9	1.06	15	53.8	4.18
Ferrissia	1	3.6	0.21	13	46.6	3.62
Corbicula fluminea	22	78.9	4.68	4	14.4	1.11
TOTAL BENTHOS	470	1,686.4	100.00	359	1,288.1	100.00

WATERWAY= S.B.C.R., LOCATION= MADISON ST., STATION= 39, and DATE= 28JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	40	143.5	2.07	26	93.3	1.61
Turbellaria	5	17.9	0.26	35	125.6	2.17
Oligochaeta	1,745	6,261.2	90.41	1,114	3,997.1	69.06
Helobdella	5	17.9	0.26	0	0.0	0.00
Caecidotea	100	358.8	5.18	9	32.3	0.56
Hyalella azteca	0	0.0	0.00	93	333.7	5.77
Procladius	0	0.0	0.00	1	3.6	0.06
Cricotopus sylvestris grp.	0	0.0	0.00	1	3.6	0.06
Nanocladius distinctus	0	0.0	0.00	21	75.3	1.30
Dicrotendipes modestus	0	0.0	0.00	1	3.6	0.06
Dicrotendipes neomodestus	0	0.0	0.00	2	7.2	0.12
Dicrotendipes lucifer	25	89.7	1.30	17	61.0	1.05
Dicrotendipes simpsoni	10	35.9	0.52	36	129.2	2.23
Glyptotendipes	0	0.0	0.00	13	46.6	0.81
Parachironomus	0	0.0	0.00	8	28.7	0.50
Polypedilum illinoense	0	0.0	0.00	5	17.9	0.31
Xenochironomus xenolabis	0	0.0	0.00	12	43.1	0.74
Helisoma	0	0.0	0.00	160	574.1	9.92
Ferrissia	0	0.0	0.00	57	204.5	3.53
Dreissena polymorpha	0	0.0	0.00	1	3.6	0.06
Dreissena rostriformis	0	0.0	0.00	1	3.6	0.06
TOTAL BENTHOS	1,930	6,925.0	100.00	1,613	5,787.6	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= S.F.S.B.C.R.,
 LOCATION= ARCHER AVE.,
 STATION= 99,
 and DATE= 02AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	10	35.9	2.33
Turbellaria	0	0.0	0.00	10	35.9	2.33
Oligochaeta	90	322.9	97.83	0	0.0	0.00
Dicrotendipes lucifer	0	0.0	0.00	20	71.8	4.65
Dicrotendipes simpsoni	2	7.2	2.17	270	968.8	62.79
Glyptotendipes	0	0.0	0.00	10	35.9	2.33
Rheotanytarsus	0	0.0	0.00	10	35.9	2.33
Physa	0	0.0	0.00	30	107.6	6.98
Helisoma	0	0.0	0.00	70	251.2	16.28
TOTAL BENTHOS	92	330.1	100.00	430	1,542.9	100.00

WATERWAY= SALT CR.,
 LOCATION= BUSSE DAM,
 STATION= SC1,
 and DATE= 28JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	10	35.9	0.20	0	0.0	0.00
Turbellaria	360	1,291.7	7.17	170	610.0	3.84
Oligochaeta	290	1,040.5	5.78	220	789.4	4.97
Ostracoda	20	71.8	0.40	0	0.0	0.00
Caecidotea	10	35.9	0.20	0	0.0	0.00
Baetis intercalaris	0	0.0	0.00	10	35.9	0.23
Argia	10	35.9	0.20	10	35.9	0.23
Cyrnellus fraternus	10	35.9	0.20	0	0.0	0.00
Cheumatopsyche	190	681.7	3.78	250	897.0	5.64
Hydroptila	40	143.5	0.80	10	35.9	0.23
Thienemannimyia grp.	40	143.5	0.80	0	0.0	0.00
Thienemanniella xena	40	143.5	0.80	0	0.0	0.00
Cricotopus bicinctus grp.	1,000	3,588.1	19.92	190	681.7	4.29
Cricotopus sylvestris grp.	170	610.0	3.39	80	287.0	1.81
Nanocladius distinctus	40	143.5	0.80	0	0.0	0.00
Cryptochironomus	0	0.0	0.00	40	143.5	0.90
Dicrotendipes fumidus	870	3,121.6	17.33	510	1,829.9	11.51
Glyptotendipes	170	610.0	3.39	40	143.5	0.90
Phaenopsectra obediens	290	1,040.5	5.78	80	287.0	1.81
Polypedilum flavum	210	753.5	4.18	0	0.0	0.00
Polypedilum illinoense	1,120	4,018.7	22.31	2,800	10,046.6	63.21
Polypedilum scalaenum grp.	40	143.5	0.80	0	0.0	0.00
Paratanytarsus	40	143.5	0.80	0	0.0	0.00
Physa	10	35.9	0.20	0	0.0	0.00
Helisoma	20	71.8	0.40	20	71.8	0.45
Ferrissia	20	71.8	0.40	0	0.0	0.00
TOTAL BENTHOS	5,020	18,012.2	100.00	4,430	15,895.2	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= SALT CR.,
 LOCATION= DEVON AVE.,
 STATION= 18,
 and DATE= 15JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	30	107.6	0.61	6	21.5	0.08
Turbellaria	60	215.3	1.22	59	211.7	0.83
Oligochaeta	3,910	14,029.4	79.31	3,578	12,838.2	50.34
Helobdella triserialis	20	71.8	0.41	1	3.6	0.01
Ostracoda	10	35.9	0.20	12	43.1	0.17
Caecidotea	10	35.9	0.20	24	86.1	0.34
Orconectes	0	0.0	0.00	3	10.8	0.04
Baetis intercalaris	0	0.0	0.00	1	3.6	0.01
Tricorythodes	0	0.0	0.00	2	7.2	0.03
Caenis	0	0.0	0.00	1	3.6	0.01
Argia	0	0.0	0.00	2	7.2	0.03
Enallagma	0	0.0	0.00	6	21.5	0.08
Cheumatopsyche	0	0.0	0.00	405	1,453.2	5.70
Hydroptila	10	35.9	0.20	76	272.7	1.07
Nectopsyche	0	0.0	0.00	2	7.2	0.03
Dubiraphia	0	0.0	0.00	3	10.8	0.04
Stenelmis	0	0.0	0.00	4	14.4	0.06
Ceratopogonidae	0	0.0	0.00	2	7.2	0.03
Procladius	10	35.9	0.20	29	104.1	0.41
Ablabesmyia janta	20	71.8	0.41	29	104.1	0.41
Ablabesmyia mallochii	0	0.0	0.00	29	104.1	0.41
Thienemannimyia grp.	0	0.0	0.00	87	312.2	1.22
Thienemanniella xena	10	35.9	0.20	0	0.0	0.00
Cricotopus bicinctus grp.	10	35.9	0.20	144	516.7	2.03
Cricotopus sylvestris grp.	30	107.6	0.61	173	620.7	2.43
Nanocladius distinctus	70	251.2	1.42	317	1,137.4	4.46
Rheocricotopus robacki	0	0.0	0.00	29	104.1	0.41
Chironomus	10	35.9	0.20	29	104.1	0.41
Cladopelma	0	0.0	0.00	29	104.1	0.41
Cryptochironomus	10	35.9	0.20	0	0.0	0.00
Dicrotendipes modestus	30	107.6	0.61	58	208.1	0.82
Dicrotendipes fumidus	0	0.0	0.00	29	104.1	0.41
Dicrotendipes simpsoni	0	0.0	0.00	87	312.2	1.22
Endochironomus nigricans	10	35.9	0.20	29	104.1	0.41
Glyptotendipes	0	0.0	0.00	548	1,966.3	7.71
Harnischia	0	0.0	0.00	29	104.1	0.41
Parachironomus	50	179.4	1.01	173	620.7	2.43
Phaenopsectra obediens	10	35.9	0.20	0	0.0	0.00
Polypedilum flavum	30	107.6	0.61	173	620.7	2.43
Polypedilum illinoense	230	825.3	4.67	403	1,446.0	5.67
Polypedilum scalaenum grp.	0	0.0	0.00	29	104.1	0.41
Paratanytarsus	160	574.1	3.25	375	1,345.5	5.28
Tanytarsus	10	35.9	0.20	29	104.1	0.41
Hemerodromia	0	0.0	0.00	2	7.2	0.03
Physa	0	0.0	0.00	1	3.6	0.01
Helisoma	60	215.3	1.22	36	129.2	0.51
Ferrissia	50	179.4	1.01	15	53.8	0.21
Corbicula fluminea	50	179.4	1.01	10	35.9	0.14
Musculium	20	71.8	0.41	0	0.0	0.00
TOTAL BENTHOS	4,930	17,689.3	100.00	7,108	25,504.1	100.00

APPENDIX A1 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= SALT CR., LOCATION= THORNDALE AVE., STATION= SC3, and DATE= 05JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	30	107.6	0.80	5	17.9	0.11
Turbellaria	115	412.6	3.07	35	125.6	0.77
Plumatella	0	0.0	0.00	1	3.6	0.02
Oligochaeta	245	879.1	6.55	35	125.6	0.77
Caecidotea	45	161.5	1.20	0	0.0	0.00
Tricorythodes	20	71.8	0.53	20	71.8	0.44
Argia	10	35.9	0.27	0	0.0	0.00
Cheumatopsyche	1,215	4,359.5	32.49	1,495	5,364.2	32.85
Hydropsyche	5	17.9	0.13	0	0.0	0.00
Ceratopsyche morosa	30	107.6	0.80	0	0.0	0.00
Hydroptila	30	107.6	0.80	0	0.0	0.00
Dubiraphia	5	17.9	0.13	5	17.9	0.11
Stenelmis	20	71.8	0.53	0	0.0	0.00
Ablabesmyia janta	55	197.3	1.47	0	0.0	0.00
Ablabesmyia mallochii	0	0.0	0.00	30	107.6	0.66
Thienemannimyia grp.	225	807.3	6.02	120	430.6	2.64
Thienemanniella xena	20	71.8	0.53	0	0.0	0.00
Thienemanniella similis	40	143.5	1.07	0	0.0	0.00
Cricotopus bicinctus grp.	40	143.5	1.07	0	0.0	0.00
Cricotopus sylvestris grp.	0	0.0	0.00	30	107.6	0.66
Nanocladius	115	412.6	3.07	0	0.0	0.00
Nanocladius distinctus	90	322.9	2.41	420	1,507.0	9.23
Chironomus	20	71.8	0.53	0	0.0	0.00
Cryptochironomus	40	143.5	1.07	0	0.0	0.00
Dicrotendipes modestus	40	143.5	1.07	0	0.0	0.00
Dicrotendipes neomodestus	0	0.0	0.00	120	430.6	2.64
Dicrotendipes simpsoni	40	143.5	1.07	120	430.6	2.64
Glyptotendipes	225	807.3	6.02	90	322.9	1.98
Parachironomus	20	71.8	0.53	30	107.6	0.66
Phaenopsectra obediens	40	143.5	1.07	0	0.0	0.00
Polypedilum flavum	645	2,314.3	17.25	1,720	6,171.5	37.79
Polypedilum illinoense	170	610.0	4.55	150	538.2	3.30
Polypedilum scalaenum grp.	40	143.5	1.07	0	0.0	0.00
Cladotanytarsus mancus grp.	20	71.8	0.53	0	0.0	0.00
Paratanytarsus	0	0.0	0.00	60	215.3	1.32
Rheotanytarsus	0	0.0	0.00	30	107.6	0.66
Tanytarsus	40	143.5	1.07	30	107.6	0.66
Helisoma	10	35.9	0.27	0	0.0	0.00
Ferrissia	35	125.6	0.94	5	17.9	0.11
TOTAL BENTHOS	3,740	13,419.4	100.00	4,551	16,329.4	100.00

WATERWAY= W.B. DUPAGE R., LOCATION= LAKE ST., STATION= 64, and DATE= 14JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	2	7.2	0.18
Turbellaria	19	68.2	0.74	106	380.3	9.49
Oligochaeta	435	1,560.8	16.95	290	1,040.5	25.96
Helobdella triserialis	3	10.8	0.12	0	0.0	0.00
Mooreobdella microstoma	0	0.0	0.00	1	3.6	0.09
Caecidotea	12	43.1	0.47	4	14.4	0.36
Baetis intercalaris	1	3.6	0.04	0	0.0	0.00
Argia	3	10.8	0.12	2	7.2	0.18
Cheumatopsyche	524	1,880.2	20.41	10	35.9	0.90
Hydroptila	1	3.6	0.04	0	0.0	0.00
Stenelmis	1	3.6	0.04	0	0.0	0.00
Procladius	0	0.0	0.00	6	21.5	0.54
Ablabesmyia janta	0	0.0	0.00	6	21.5	0.54
Thienemannimyia grp.	31	111.2	1.21	0	0.0	0.00
Cricotopus bicinctus grp.	169	606.4	6.58	6	21.5	0.54
Cricotopus sylvestris grp.	31	111.2	1.21	20	71.8	1.79
Nanocladius distinctus	138	495.2	5.38	33	118.4	2.95
Nanocladius crassicornus/rectinervis	46	165.1	1.79	6	21.5	0.54
Chironomus	31	111.2	1.21	20	71.8	1.79
Dicrotendipes modestus	15	53.8	0.58	13	46.6	1.16
Dicrotendipes neomodestus	0	0.0	0.00	33	118.4	2.95
Dicrotendipes simpsoni	0	0.0	0.00	53	190.2	4.74
Endochironomus nigricans	0	0.0	0.00	20	71.8	1.79
Glyptotendipes	123	441.3	4.79	238	854.0	21.31
Parachironomus	31	111.2	1.21	13	46.6	1.16
Polypedilum flavum	877	3,146.8	34.16	53	190.2	4.74
Polypedilum illinoense	0	0.0	0.00	6	21.5	0.54
Paratanytarsus	31	111.2	1.21	79	283.5	7.07
Tanytarsus	0	0.0	0.00	6	21.5	0.54
Simulium	9	32.3	0.35	1	3.6	0.09
Phylla	1	3.6	0.04	0	0.0	0.00
Helisoma	35	125.6	1.36	90	322.9	8.06
TOTAL BENTHOS	2,567	9,210.6	100.00	1,117	4,007.9	100.00

APPENDIX A2 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= C.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 59,
 and DATE= 24JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	1,260	18,085.1	93.40	93	1,334.9	96.88
Procladius	30	430.6	2.22	2	28.7	2.08
Thienemanniella xena	10	143.5	0.74	0	0.0	0.00
Dicrotendipes neomodestus	10	143.5	0.74	0	0.0	0.00
Dicrotendipes lucifer	10	143.5	0.74	0	0.0	0.00
Corbicula fluminea	3	43.1	0.22	1	14.4	1.04
Dreissena polymorpha	3	43.1	0.22	0	0.0	0.00
Dreissena rostriformis	23	330.1	1.70	0	0.0	0.00
TOTAL BENTHOS	1,349	19,362.6	100.00	96	1,377.9	100.00

WATERWAY= C.S.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 75,
 and DATE= 04AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	88	1,263.1	98.88	428	6,143.2	99.77
Corbicula fluminea	1	14.4	1.12	1	14.4	0.23
TOTAL BENTHOS	89	1,277.4	100.00	429	6,157.6	100.00

WATERWAY= C.S.S.C.,
 LOCATION= DAMEN AVE.,
 STATION= 40,
 and DATE= 02AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	106	1,521.4	98.15	12	172.2	92.31
Procladius	2	28.7	1.85	1	14.4	7.69
TOTAL BENTHOS	108	1,550.2	100.00	13	186.6	100.00

WATERWAY= C.S.S.C.,
 LOCATION= HARLEM AVE.,
 STATION= 41,
 and DATE= 04AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	80	1,148.3	100.00	67	961.7	88.16
Cricotopus bicinctus grp.	0	0.0	0.00	1	14.4	1.32
Chironomus	0	0.0	0.00	7	100.5	9.21
Corbicula fluminea	0	0.0	0.00	1	14.4	1.32
TOTAL BENTHOS	80	1,148.3	100.00	76	1,090.8	100.00

WATERWAY= C.S.S.C.,
 LOCATION= LOCKPORT,
 STATION= 92,
 and DATE= 25JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	3,490	50,092.9	99.15	1,007	14,453.7	97.39
Procladius	10	143.5	0.28	3	43.1	0.29
Corbicula fluminea	20	287.1	0.57	17	244.0	1.64
Musculium	0	0.0	0.00	7	100.5	0.68
TOTAL BENTHOS	3,520	50,523.5	100.00	1,034	14,841.3	100.00

APPENDIX A2 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= C.S.S.C.,
 LOCATION= ROUTE 83,
 STATION= 42,
 and DATE= 28AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	238	3,416.1	100.00	--	--	--
TOTAL BENTHOS	238	3,416.1	100.00	--	--	--

WATERWAY= CALUMET R.,
 LOCATION= 130TH ST.,
 STATION= 55,
 and DATE= 29JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	68	976.0	21.25	303	4,349.0	86.57
Echinogammarus ischusa	3	43.1	0.94	1	14.4	0.29
Procladius	1	14.4	0.31	0	0.0	0.00
Coelotanypus	1	14.4	0.31	0	0.0	0.00
Chironomus	0	0.0	0.00	2	28.7	0.57
Cryptochironomus	2	28.7	0.63	2	28.7	0.57
Dicrotendipes modestus	0	0.0	0.00	1	14.4	0.29
Glyptotendipes	0	0.0	0.00	1	14.4	0.29
Polypedilum halterale grp.	0	0.0	0.00	34	488.0	9.71
Polypedilum scalaenum grp.	0	0.0	0.00	5	71.8	1.43
Dreissena polymorpha	13	186.6	4.06	1	14.4	0.29
Dreissena rostriformis	232	3,330.0	72.50	0	0.0	0.00
TOTAL BENTHOS	320	4,593.0	100.00	350	5,023.6	100.00

WATERWAY= CHICAGO R.,
 LOCATION= LAKE SHORE DR.,
 STATION= 74,
 and DATE= 26JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	188	2,698.4	97.92	0	0.0	0.00
Procladius	0	0.0	0.00	2	28.7	12.50
Chironomus	1	14.4	0.52	1	14.4	6.25
Cryptochironomus	1	14.4	0.52	0	0.0	0.00
Polypedilum halterale grp.	2	28.7	1.04	1	14.4	6.25
Dreissena polymorpha	0	0.0	0.00	2	28.7	12.50
Dreissena rostriformis	0	0.0	0.00	10	143.5	62.50
TOTAL BENTHOS	192	2,755.8	100.00	16	229.7	100.00

WATERWAY= CHICAGO R.,
 LOCATION= WELLS ST.,
 STATION= 100,
 and DATE= 27JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	100	1,435.3	100.00	36	516.7	92.31
Paratendipes	0	0.0	0.00	1	14.4	2.56
Polypedilum scalaenum grp.	0	0.0	0.00	1	14.4	2.56
Corbicula fluminea	0	0.0	0.00	1	14.4	2.56
TOTAL BENTHOS	100	1,435.3	100.00	39	559.8	100.00

APPENDIX A2 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= DES PLAINES R.,
 LOCATION= LAKE COOK RD.,
 STATION= 13,
 and DATE= 20JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	1,199	17,209.6	59.30	79	1,133.9	46.47
Gammarus	0	0.0	0.00	19	272.7	11.18
Tricorythodes	10	143.5	0.49	3	43.1	1.76
Ephoron	2	28.7	0.10	0	0.0	0.00
Enallagma	0	0.0	0.00	2	28.7	1.18
Stylurus	0	0.0	0.00	2	28.7	1.18
Cheumatopsyche	28	401.9	1.38	5	71.8	2.94
Hydropsyche simulans	1	14.4	0.05	0	0.0	0.00
Hydroptila	1	14.4	0.05	2	28.7	1.18
Dubiraphia	2	28.7	0.10	0	0.0	0.00
Macronychus glabratus	1	14.4	0.05	1	14.4	0.59
Stenelmis	4	57.4	0.20	0	0.0	0.00
Ablabesmyia janta	0	0.0	0.00	3	43.1	1.76
Ablabesmyia annulata	0	0.0	0.00	2	28.7	1.18
Thienemannimyia grp.	31	445.0	1.53	2	28.7	1.18
Cricotopus bicinctus grp.	0	0.0	0.00	3	43.1	1.76
Cricotopus sylvestris grp.	0	0.0	0.00	1	14.4	0.59
Nanocladius crassicornus/rectinervis	0	0.0	0.00	3	43.1	1.76
Chironomus	0	0.0	0.00	4	57.4	2.35
Cryptochironomus	62	889.9	3.07	5	71.8	2.94
Dicrotendipes neomodestus	8	114.8	0.40	0	0.0	0.00
Endochironomus nigricans	0	0.0	0.00	1	14.4	0.59
Glyptotendipes	0	0.0	0.00	4	57.4	2.35
Harnischia	0	0.0	0.00	3	43.1	1.76
Microtendipes	62	889.9	3.07	0	0.0	0.00
Paratendipes	0	0.0	0.00	1	14.4	0.59
Polypedilum flavum	8	114.8	0.40	7	100.5	4.12
Polypedilum halterale grp.	31	445.0	1.53	3	43.1	1.76
Cladotanytarsus mancus grp.	62	889.9	3.07	0	0.0	0.00
Cladotanytarsus vanderwulpi grp.	163	2,339.6	8.06	1	14.4	0.59
Paratanytarsus	8	114.8	0.40	3	43.1	1.76
Rheotanytarsus	16	229.7	0.79	4	57.4	2.35
Tanytarsus	287	4,119.4	14.19	1	14.4	0.59
Helisoma	0	0.0	0.00	1	14.4	0.59
Corbicula fluminea	34	488.0	1.68	5	71.8	2.94
Pisidium	2	28.7	0.10	0	0.0	0.00
TOTAL BENTHOS	2,022	29,022.3	100.00	170	2,440.1	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= MATERIAL SERVICE RD.,
 STATION= 91,
 and DATE= 13JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	302	4,334.7	90.42	5	71.8	10.87
Helobdella stagnalis	2	28.7	0.60	2	28.7	4.35
Mooreobdella microstoma	10	143.5	2.99	14	200.9	30.43
Caecidotea	0	0.0	0.00	1	14.4	2.17
Gammarus	3	43.1	0.90	2	28.7	4.35
Caenis	1	14.4	0.30	0	0.0	0.00
Stenelmis	0	0.0	0.00	4	57.4	8.70
Cricotopus bicinctus grp.	0	0.0	0.00	1	14.4	2.17
Chironomus	6	86.1	1.80	3	43.1	6.52
Cryptochironomus	1	14.4	0.30	2	28.7	4.35
Dicrotendipes neomodestus	1	14.4	0.30	1	14.4	2.17
Polypedilum flavum	1	14.4	0.30	4	57.4	8.70
Polypedilum illinoense	0	0.0	0.00	1	14.4	2.17
Rheotanytarsus	2	28.7	0.60	1	14.4	2.17
Amnicola	0	0.0	0.00	1	14.4	2.17
Corbicula fluminea	3	43.1	0.90	1	14.4	2.17
Musculium	2	28.7	0.60	3	43.1	6.52
TOTAL BENTHOS	334	4,794.0	100.00	46	660.3	100.00

APPENDIX A2 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= DES PLAINES R.,
 LOCATION= OGDEN AVE.,
 STATION= 22, and DATE= 22JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	10	143.5	8.40	13	186.6	7.78
Oligochaeta	21	301.4	17.65	57	818.1	34.13
Helobdella stagnalis	0	0.0	0.00	2	28.7	1.20
Mooreobdella microstoma	0	0.0	0.00	1	14.4	0.60
Gammarus	16	229.7	13.45	5	71.8	2.99
Baetis intercalaris	2	28.7	1.68	0	0.0	0.00
Argia	0	0.0	0.00	1	14.4	0.60
Cheumatopsyche	9	129.2	7.56	8	114.8	4.79
Hydroptila	2	28.7	1.68	0	0.0	0.00
Stenelmis	3	43.1	2.52	7	100.5	4.19
Ceratopogonidae	0	0.0	0.00	1	14.4	0.60
Ablabesmyia janta	1	14.4	0.84	0	0.0	0.00
Ablabesmyia mallochii	2	28.7	1.68	0	0.0	0.00
Thienemannimyia grp.	4	57.4	3.36	2	28.7	1.20
Thienemanniella xena	0	0.0	0.00	1	14.4	0.60
Thienemanniella lobapodema	10	143.5	8.40	1	14.4	0.60
Cricotopus trifascia grp.	1	14.4	0.84	0	0.0	0.00
Rheocricotopus robacki	0	0.0	0.00	1	14.4	0.60
Polypedilum flavum	2	28.7	1.68	3	43.1	1.80
Polypedilum illinoense	3	43.1	2.52	0	0.0	0.00
Polypedilum scalaenum grp.	1	14.4	0.84	1	14.4	0.60
Cladotanytarsus vanderwulpi grp.	0	0.0	0.00	1	14.4	0.60
Ammicola	1	14.4	0.84	0	0.0	0.00
Pleurocera	0	0.0	0.00	1	14.4	0.60
Ferrissia	3	43.1	2.52	0	0.0	0.00
Corbicula fluminea	25	358.8	21.01	61	875.5	36.53
Pisidium	3	43.1	2.52	0	0.0	0.00
TOTAL BENTHOS	119	1,708.0	100.00	167	2,397.0	100.00

WATERWAY= HIGGINS CR.,
 LOCATION= WILLE RD.,
 STATION= 78, and DATE= 13JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	46	660.3	2.49	0	0.0	0.00
Oligochaeta	207	2,971.1	11.19	660	9,473.2	13.23
Mooreobdella microstoma	4	57.4	0.22	0	0.0	0.00
Caecidotea	252	3,617.0	13.62	160	2,296.5	3.21
Hydroptila	1	14.4	0.05	0	0.0	0.00
Thienemannimyia grp.	0	0.0	0.00	40	574.1	0.80
Cricotopus tremulus grp.	66	947.3	3.57	130	1,865.9	2.61
Cricotopus bicinctus grp.	1,115	16,003.9	60.27	3,700	53,107.1	74.15
Cricotopus sylvestris grp.	131	1,880.3	7.08	130	1,865.9	2.61
Nanocladius crassicornus/rectinervis	13	186.6	0.70	0	0.0	0.00
Chironomus	13	186.6	0.70	170	2,440.1	3.41
Physa	2	28.7	0.11	0	0.0	0.00
TOTAL BENTHOS	1,850	26,553.5	100.00	4,990	71,622.8	100.00

WATERWAY= L.C.R.,
 LOCATION= HALSTED ST.,
 STATION= 76, and DATE= 21JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	5,350	76,790.0	97.99	1,743	25,017.7	60.21
Caecidotea	0	0.0	0.00	15	215.3	0.52
Gammarus	10	143.5	0.18	289	4,148.1	9.98
Procladius	60	861.2	1.10	269	3,861.0	9.29
Ablabesmyia janta	0	0.0	0.00	7	100.5	0.24
Cricotopus bicinctus grp.	0	0.0	0.00	127	1,822.9	4.39
Cricotopus sylvestris grp.	0	0.0	0.00	202	2,899.4	6.98
Chironomus	0	0.0	0.00	7	100.5	0.24
Cryptochironomus	0	0.0	0.00	45	645.9	1.55
Dicrotendipes lucifer	10	143.5	0.18	82	1,177.0	2.83
Dicrotendipes simpsoni	0	0.0	0.00	15	215.3	0.52
Parachironomus	0	0.0	0.00	22	315.8	0.76
Polypedilum illinoense	0	0.0	0.00	7	100.5	0.24
Menetus	0	0.0	0.00	1	14.4	0.03
Ferrissia	0	0.0	0.00	3	43.1	0.10
Corbicula fluminea	20	287.1	0.37	46	660.3	1.59
Pisidium	10	143.5	0.18	1	14.4	0.03
Dreissena rostriformis	0	0.0	0.00	14	200.9	0.48
TOTAL BENTHOS	5,460	78,368.8	100.00	2,895	41,552.7	100.00

APPENDIX A2 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= N.B.C.R.,
 LOCATION= ALBANY AVE.,
 STATION= 96,
 and DATE= 18JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	4	57.4	5.56	0	0.0	0.00
Oligochaeta	31	445.0	43.06	51	732.0	58.62
Helobdella	2	28.7	2.78	0	0.0	0.00
Caecidotea	6	86.1	8.33	1	14.4	1.15
Gammarus	12	172.2	16.67	0	0.0	0.00
Orconectes	1	14.4	1.39	0	0.0	0.00
Stenacron	0	0.0	0.00	1	14.4	1.15
Cheumatopsyche	1	14.4	1.39	0	0.0	0.00
Procladius	0	0.0	0.00	4	57.4	4.60
Thienemannimyia grp.	1	14.4	1.39	0	0.0	0.00
Thienemanniella similis	1	14.4	1.39	0	0.0	0.00
Cricotopus bicinctus grp.	1	14.4	1.39	0	0.0	0.00
Nanocladius distinctus	2	28.7	2.78	0	0.0	0.00
Dicrotendipes neomodestus	0	0.0	0.00	1	14.4	1.15
Polypedilum scalaenum grp.	1	14.4	1.39	4	57.4	4.60
Paratanytarsus	0	0.0	0.00	2	28.7	2.30
Amnicola	3	43.1	4.17	1	14.4	1.15
Ferrissia	0	0.0	0.00	4	57.4	4.60
Musculium	4	57.4	5.56	18	258.4	20.69
Pisidium	2	28.7	2.78	0	0.0	0.00
TOTAL BENTHOS	72	1,033.4	100.00	87	1,248.7	100.00

WATERWAY= N.B.C.R.,
 LOCATION= GRAND AVE.,
 STATION= 46,
 and DATE= 11JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	1	14.4	0.49	0	0.0	0.00
Turbellaria	2	28.7	0.98	0	0.0	0.00
Oligochaeta	199	2,856.3	97.07	188	2,698.4	97.92
Procladius	1	14.4	0.49	4	57.4	2.08
Cricotopus sylvestris grp.	1	14.4	0.49	0	0.0	0.00
Pisidium	1	14.4	0.49	0	0.0	0.00
TOTAL BENTHOS	205	2,942.4	100.00	192	2,755.8	100.00

WATERWAY= N.S.C.,
 LOCATION= TOUHY AVE.,
 STATION= 36,
 and DATE= 10JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	2,975	42,701.0	98.51	3,190	45,786.9	98.76
Caecidotea	0	0.0	0.00	10	143.5	0.31
Gammarus	5	71.8	0.17	0	0.0	0.00
Nanocladius distinctus	10	143.5	0.33	0	0.0	0.00
Chironomus	30	430.6	0.99	0	0.0	0.00
Dicrotendipes simpsoni	0	0.0	0.00	10	143.5	0.31
Glyptotendipes	0	0.0	0.00	10	143.5	0.31
Parachironomus	0	0.0	0.00	10	143.5	0.31
TOTAL BENTHOS	3,020	43,346.9	100.00	3,230	46,361.1	100.00

WATERWAY= S.B.C.R.,
 LOCATION= LOOMIS ST.,
 STATION= 108,
 and DATE= 02AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	122	1,751.1	86.52	146	2,095.6	90.68
Procladius	11	157.9	7.80	0	0.0	0.00
Nanocladius distinctus	4	57.4	2.84	0	0.0	0.00
Dicrotendipes simpsoni	1	14.4	0.71	0	0.0	0.00
Corbicula fluminea	0	0.0	0.00	15	215.3	9.32
Pisidium	1	14.4	0.71	0	0.0	0.00
Dreissena polymorpha	1	14.4	0.71	0	0.0	0.00
Dreissena rostriformis	1	14.4	0.71	0	0.0	0.00
TOTAL BENTHOS	141	2,023.8	100.00	161	2,310.9	100.00

APPENDIX A2 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= S.B.C.R., LOCATION= MADISON ST.,
STATION= 39, and DATE= 28JUL06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	143	2,052.5	100.00	81	1,162.6	98.78
Procladius	0	0.0	0.00	1	14.4	1.22
TOTAL BENTHOS	143	2,052.5	100.00	82	1,177.0	100.00

WATERWAY= S.F.S.B.C.R., LOCATION= ARCHER AVE.,
STATION= 99, and DATE= 02AUG06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	31	445.0	100.00	60	861.2	100.00
TOTAL BENTHOS	31	445.0	100.00	60	861.2	100.00

WATERWAY= SALT CR., LOCATION= BUSSE DAM,
STATION= SC1, and DATE= 28JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	10	143.5	0.25
Turbellaria	0	0.0	0.00	10	143.5	0.25
Oligochaeta	120	1,722.4	5.66	770	11,052.0	19.59
Hydroptila	0	0.0	0.00	20	287.1	0.51
Thienemanniella xena	25	358.8	1.18	0	0.0	0.00
Cricotopus bicinctus grp.	0	0.0	0.00	410	5,884.8	10.43
Cricotopus sylvestris grp.	25	358.8	1.18	0	0.0	0.00
Chironomus	0	0.0	0.00	60	861.2	1.53
Cryptochironomus	25	358.8	1.18	0	0.0	0.00
Dicrotendipes fumidus	800	11,482.6	37.74	1,230	17,654.5	31.30
Phaenopsectra obediens	25	358.8	1.18	90	1,291.8	2.29
Polypedilum illinoense	170	2,440.1	8.02	1,320	18,946.3	33.59
Polypedilum scalaenum grp.	75	1,076.5	3.54	0	0.0	0.00
Pseudochironomus	145	2,081.2	6.84	0	0.0	0.00
Cladotanytarsus mancus grp.	680	9,760.2	32.08	0	0.0	0.00
Helisoma	10	143.5	0.47	10	143.5	0.25
Corbicula fluminea	20	287.1	0.94	0	0.0	0.00
TOTAL BENTHOS	2,120	30,428.9	100.00	3,930	56,408.3	100.00

WATERWAY= SALT CR., LOCATION= DEVON AVE.,
STATION= 18, and DATE= 15JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	336	4,822.7	76.02	438	6,286.7	78.49
Cheumatopsyche	0	0.0	0.00	2	28.7	0.36
Dubiraphia	3	43.1	0.68	3	43.1	0.54
Procladius	2	28.7	0.45	1	14.4	0.18
Thienemannimyia grp.	0	0.0	0.00	1	14.4	0.18
Cricotopus bicinctus grp.	4	57.4	0.90	1	14.4	0.18
Cricotopus sylvestris grp.	0	0.0	0.00	1	14.4	0.18
Chironomus	3	43.1	0.68	2	28.7	0.36
Cladopelma	0	0.0	0.00	1	14.4	0.18
Cryptochironomus	29	416.2	6.56	30	430.6	5.38
Dicrotendipes modestus	0	0.0	0.00	1	14.4	0.18
Dicrotendipes fumidus	1	14.4	0.23	0	0.0	0.00
Glyptotendipes	1	14.4	0.23	0	0.0	0.00
Harnischia	0	0.0	0.00	4	57.4	0.72
Parachironomus	0	0.0	0.00	1	14.4	0.18
Phaenopsectra obediens	1	14.4	0.23	0	0.0	0.00
Polypedilum flavum	1	14.4	0.23	0	0.0	0.00
Polypedilum halterale grp.	4	57.4	0.90	3	43.1	0.54
Polypedilum illinoense	2	28.7	0.45	6	86.1	1.08
Polypedilum scalaenum grp.	3	43.1	0.68	8	114.8	1.43
Pseudochironomus	0	0.0	0.00	2	28.7	0.36
Stictochironomus	9	129.2	2.04	1	14.4	0.18
Cladotanytarsus mancus grp.	39	559.8	8.82	26	373.2	4.66
Paratanytarsus	2	28.7	0.45	2	28.7	0.36
Helisoma	0	0.0	0.00	3	43.1	0.54
Ferrissia	0	0.0	0.00	1	14.4	0.18
Corbicula fluminea	1	14.4	0.23	20	287.1	3.58
Pisidium	1	14.4	0.23	0	0.0	0.00
TOTAL BENTHOS	442	6,344.1	100.00	558	8,009.1	100.00

APPENDIX A2 - 2006 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= SALT CR.,
 LOCATION= THORNDALE AVE.,
 STATION= SC3,
 and DATE= 05JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	20	287.1	0.08	0	0.0	0.00
Oligochaeta	23,710	340,316.0	95.64	28	401.9	17.07
Helobdella triserialis	10	143.5	0.04	0	0.0	0.00
Ostracoda	10	143.5	0.04	0	0.0	0.00
Caecidotea	0	0.0	0.00	2	28.7	1.22
Tricorythodes	10	143.5	0.04	0	0.0	0.00
Cheumatopsyche	280	4,018.9	1.13	6	86.1	3.66
Hydroptila	20	287.1	0.08	0	0.0	0.00
Dubiraphia	10	143.5	0.04	0	0.0	0.00
Stenelmis	90	1,291.8	0.36	0	0.0	0.00
Thienemannimyia grp.	0	0.0	0.00	3	43.1	1.83
Thienemanniella xena	20	287.1	0.08	0	0.0	0.00
Thienemanniella lobapodema	0	0.0	0.00	1	14.4	0.61
Cricotopus bicinctus grp.	5	71.8	0.02	1	14.4	0.61
Cricotopus sylvestris grp.	10	143.5	0.04	0	0.0	0.00
Nanocladius distinctus	0	0.0	0.00	1	14.4	0.61
Cryptochironomus	54	775.1	0.22	35	502.4	21.34
Dicrotendipes modestus	0	0.0	0.00	1	14.4	0.61
Dicrotendipes neomodestus	0	0.0	0.00	1	14.4	0.61
Phaenopsectra obediens	0	0.0	0.00	1	14.4	0.61
Polypedilum flavum	93	1,334.9	0.38	1	14.4	0.61
Polypedilum halterale grp.	39	559.8	0.16	23	330.1	14.02
Polypedilum illinoense	0	0.0	0.00	5	71.8	3.05
Polypedilum scalaenum grp.	54	775.1	0.22	17	244.0	10.37
Pseudochironomus	0	0.0	0.00	1	14.4	0.61
Stictochironomus	10	143.5	0.04	0	0.0	0.00
Cladotanytarsus mancus grp.	161	2,310.9	0.65	23	330.1	14.02
Tanytarsus	34	488.0	0.14	10	143.5	6.10
Simulium	10	143.5	0.04	0	0.0	0.00
Physa	10	143.5	0.04	0	0.0	0.00
Ferrissia	50	717.7	0.20	0	0.0	0.00
Corbicula fluminea	80	1,148.3	0.32	4	57.4	2.44
TOTAL BENTHOS	24,790	355,817.5	100.00	164	2,353.9	100.00

WATERWAY= W.B. DUPAGE R.,
 LOCATION= LAKE ST.,
 STATION= 64,
 and DATE= 14JUN06

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	1	14.4	3.23	30	430.6	46.15
Caecidotea	1	14.4	3.23	0	0.0	0.00
Procladius	0	0.0	0.00	3	43.1	4.62
Thienemanniella xena	2	28.7	6.45	0	0.0	0.00
Cricotopus tremulus grp.	1	14.4	3.23	0	0.0	0.00
Cricotopus bicinctus grp.	12	172.2	38.71	1	14.4	1.54
Chironomus	2	28.7	6.45	22	315.8	33.85
Cryptochironomus	2	28.7	6.45	5	71.8	7.69
Glyptotendipes	0	0.0	0.00	4	57.4	6.15
Polypedilum flavum	4	57.4	12.90	0	0.0	0.00
Polypedilum scalaenum grp.	2	28.7	6.45	0	0.0	0.00
Physa	1	14.4	3.23	0	0.0	0.00
Helisoma	2	28.7	6.45	0	0.0	0.00
Corbicula fluminea	1	14.4	3.23	0	0.0	0.00
TOTAL BENTHOS	31	445.0	100.00	65	933.0	100.00

Appendix B

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= C.S.C.,
 LOCATION= ASHLAND AVE.,
 STATION= 58,
 and DATE= 11JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	283	1,015.4	10.61	247	886.3	16.08
Turbellaria	27	96.9	1.01	33	118.4	2.15
Oligochaeta	201	721.2	7.54	114	409.0	7.42
Helobdella triserialis	1	3.6	0.04	0	0.0	0.00
Caecidotea	1	3.6	0.04	1	3.6	0.07
Hyalella azteca	3	10.8	0.11	0	0.0	0.00
Gammarus	48	172.2	1.80	89	319.3	5.79
Enallagma	0	0.0	0.00	5	17.9	0.33
Cyrenellus fraternus	10	35.9	0.37	1	3.6	0.07
Cricotopus bicinctus grp.	67	240.4	2.51	17	61.0	1.11
Cricotopus sylvestris grp.	33	118.4	1.24	59	211.7	3.84
Nanocladius distinctus	134	480.8	5.02	17	61.0	1.11
Dicrotendipes neomodestus	17	61.0	0.64	0	0.0	0.00
Dicrotendipes lucifer	702	2,518.8	26.32	528	1,894.5	34.38
Dicrotendipes simpsoni	685	2,457.8	25.68	218	782.2	14.19
Parachironomus	17	61.0	0.64	0	0.0	0.00
Polypedilum illinoense	17	61.0	0.64	17	61.0	1.11
Paratanytarsus	0	0.0	0.00	8	28.7	0.52
Physa	7	25.1	0.26	5	17.9	0.33
Helisoma	1	3.6	0.04	52	186.6	3.39
Ferrissia	51	183.0	1.91	34	122.0	2.21
Corbicula fluminea	4	14.4	0.15	1	3.6	0.07
Dreissena polymorpha	0	0.0	0.00	2	7.2	0.13
Dreissena bugensis	358	1,284.5	13.42	88	315.8	5.73
TOTAL BENTHOS	2,667	9,569.4	100.00	1,536	5,511.3	100.00

WATERWAY= C.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 59,
 and DATE= 11JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	198	710.4	12.81	23	82.5	1.20
Turbellaria	8	28.7	0.52	3	10.8	0.16
Oligochaeta	88	315.8	5.69	657	2,357.4	34.40
Gammarus	33	118.4	2.13	50	179.4	2.62
Cyrenellus fraternus	18	64.6	1.16	20	71.8	1.05
Procladius	0	0.0	0.00	10	35.9	0.52
Cricotopus bicinctus grp.	30	107.6	1.94	20	71.8	1.05
Cricotopus sylvestris grp.	0	0.0	0.00	10	35.9	0.52
Nanocladius distinctus	83	297.8	5.37	10	35.9	0.52
Cryptotendipes	0	0.0	0.00	10	35.9	0.52
Dicrotendipes neomodestus	0	0.0	0.00	20	71.8	1.05
Dicrotendipes lucifer	682	2,447.1	44.11	753	2,701.8	39.42
Dicrotendipes simpsoni	205	735.6	13.26	180	645.9	9.42
Glyptotendipes	10	35.9	0.65	20	71.8	1.05
Parachironomus	10	35.9	0.65	10	35.9	0.52
Polypedilum illinoense	10	35.9	0.65	0	0.0	0.00
Paratanytarsus	0	0.0	0.00	10	35.9	0.52
Xenochironomus xenolabis	0	0.0	0.00	10	35.9	0.52
Ferrissia	125	448.5	8.09	17	61.0	0.89
Corbicula fluminea	0	0.0	0.00	10	35.9	0.52
Dreissena polymorpha	8	28.7	0.52	0	0.0	0.00
Dreissena bugensis	38	136.3	2.46	67	240.4	3.51
TOTAL BENTHOS	1,546	5,547.2	100.00	1,910	6,853.2	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= C.S.C.,
 LOCATION= ROUTE 83,
 STATION= 43,
 and DATE= 12JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	663	2,378.9	38.98	0	0.0	0.00
Turbellaria	3	10.8	0.18	5	17.9	0.58
Oligochaeta	40	143.5	2.35	425	1,524.9	48.91
Hyalella azteca	0	0.0	0.00	37	132.8	4.26
Gammarus	88	315.8	5.17	55	197.3	6.33
Stenacron	0	0.0	0.00	2	7.2	0.23
Cyrenellus fraternus	330	1,184.1	19.40	83	297.8	9.55
Procladius	0	0.0	0.00	3	10.8	0.35
Ablabesmyia janta	10	35.9	0.59	5	17.9	0.58
Cricotopus bicinctus grp.	0	0.0	0.00	8	28.7	0.92
Cricotopus sylvestris grp.	0	0.0	0.00	16	57.4	1.84
Nanocladius distinctus	85	305.0	5.00	13	46.6	1.50
Dicrotendipes modestus	0	0.0	0.00	8	28.7	0.92
Dicrotendipes neomodestus	0	0.0	0.00	5	17.9	0.58
Dicrotendipes lucifer	418	1,499.8	24.57	162	581.3	18.64
Dicrotendipes simpsoni	5	17.9	0.29	8	28.7	0.92
Glyptotendipes	5	17.9	0.29	3	10.8	0.35
Parachironomus	0	0.0	0.00	3	10.8	0.35
Polypedilum illinoense	0	0.0	0.00	3	10.8	0.35
Stenochironomus	0	0.0	0.00	3	10.8	0.35
Paratanytarsus	0	0.0	0.00	8	28.7	0.92
Helisoma	3	10.8	0.18	0	0.0	0.00
Ferrissia	5	17.9	0.29	0	0.0	0.00
Corbicula fluminea	20	71.8	1.18	1	3.6	0.12
Dreissena polymorpha	3	10.8	0.18	5	17.9	0.58
Dreissena bugensis	23	82.5	1.35	8	28.7	0.92
TOTAL BENTHOS	1,701	6,103.3	100.00	869	3,118.0	100.00

WATERWAY= C.S.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 75,
 and DATE= 31MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	858	3,078.6	25.12
Turbellaria	0	0.0	0.00	458	1,643.3	13.41
Oligochaeta	209	749.9	99.05	647	2,321.5	18.95
Helobdella	0	0.0	0.00	6	21.5	0.18
Hyalella azteca	1	3.6	0.47	179	642.3	5.24
Nanocladius distinctus	0	0.0	0.00	24	86.1	0.70
Dicrotendipes lucifer	0	0.0	0.00	765	2,744.9	22.40
Dicrotendipes simpsoni	1	3.6	0.47	437	1,568.0	12.80
Physa	0	0.0	0.00	2	7.2	0.06
Helisoma	0	0.0	0.00	3	10.8	0.09
Ferrissia	0	0.0	0.00	3	10.8	0.09
Corbicula fluminea	0	0.0	0.00	33	118.4	0.97
TOTAL BENTHOS	211	757.1	100.00	3,415	12,253.3	100.00

WATERWAY= C.S.S.C.,
 LOCATION= HARLEM AVE.,
 STATION= 41,
 and DATE= 31MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	455	1,632.6	10.59	80	287.0	2.76
Turbellaria	475	1,704.3	11.06	235	843.2	8.12
Oligochaeta	2,340	8,396.1	54.48	1,725	6,189.5	59.59
Helobdella stagnalis	20	71.8	0.47	0	0.0	0.00
Helobdella triserialis	0	0.0	0.00	5	17.9	0.17
Caecidotea	15	53.8	0.35	5	17.9	0.17
Hyalella azteca	85	305.0	1.98	20	71.8	0.69
Cyrenellus fraternus	115	412.6	2.68	25	89.7	0.86
Nanocladius distinctus	55	197.3	1.28	15	53.8	0.52
Dicrotendipes lucifer	385	1,381.4	8.96	445	1,596.7	15.37
Dicrotendipes simpsoni	310	1,112.3	7.22	335	1,202.0	11.57
Glyptotendipes	10	35.9	0.23	0	0.0	0.00
Parachironomus	10	35.9	0.23	0	0.0	0.00
Helisoma	5	17.9	0.12	0	0.0	0.00
Ferrissia	10	35.9	0.23	0	0.0	0.00
Eupera cubensis	5	17.9	0.12	5	17.9	0.17
TOTAL BENTHOS	4,295	15,410.8	100.00	2,895	10,387.5	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= C.S.S.C., LOCATION= LOCKPORT, STATION= 92,
and DATE= 25MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	176	631.5	11.05	5	17.9	0.31
Turbellaria	440	1,578.8	27.62	226	810.9	13.88
Oligochaeta	228	818.1	14.31	37	132.8	2.27
Helobdella stagnalis	13	46.6	0.82	0	0.0	0.00
Helobdella triserialis	2	7.2	0.13	2	7.2	0.12
Caecidotea	0	0.0	0.00	1	3.6	0.06
Hyalella azteca	165	592.0	10.36	429	1,539.3	26.35
Gammarus	242	868.3	15.19	187	671.0	11.49
Cyrenellus fraternus	6	21.5	0.38	2	7.2	0.12
Hydropsyche bidens	1	3.6	0.06	1	3.6	0.06
Stenelmis	0	0.0	0.00	1	3.6	0.06
Ablabesmyia janta	42	150.7	2.64	15	53.8	0.92
Nanocladius distinctus	0	0.0	0.00	15	53.8	0.92
Dicrotendipes neomodestus	0	0.0	0.00	7	25.1	0.43
Dicrotendipes lucifer	231	828.8	14.50	523	1,876.6	32.13
Dicrotendipes simpsoni	39	139.9	2.45	152	545.4	9.34
Glyptotendipes	0	0.0	0.00	7	25.1	0.43
Polypedilum scalaenum grp.	0	0.0	0.00	7	25.1	0.43
Physa	3	10.8	0.19	0	0.0	0.00
Ferrissia	1	3.6	0.06	4	14.4	0.25
Corbicula fluminea	1	3.6	0.06	5	17.9	0.31
Eupera cubensis	3	10.8	0.19	2	7.2	0.12
TOTAL BENTHOS	1,593	5,715.8	100.00	1,628	5,841.4	100.00

WATERWAY= CALUMET R., LOCATION= 130TH ST., STATION= 55,
and DATE= 07JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	400	1,435.2	2.10	0	0.0	0.00
Oligochaeta	150	538.2	0.79	300	1,076.4	0.39
Gammarus	200	717.6	1.05	700	2,511.7	0.90
Cyrenellus fraternus	0	0.0	0.00	1	3.6	0.00
Dicrotendipes neomodestus	0	0.0	0.00	1	3.6	0.00
Dicrotendipes lucifer	1	3.6	0.01	1	3.6	0.00
Paratanytarsus	0	0.0	0.00	1	3.6	0.00
Dreissena polymorpha	400	1,435.2	2.10	500	1,794.0	0.64
Dreissena bugensis	17,900	64,226.8	93.96	76,100	273,053.5	98.06
TOTAL BENTHOS	19,051	68,356.7	100.00	77,604	278,449.9	100.00

WATERWAY= CALUMET R., LOCATION= EWING AVE., STATION= 49,
and DATE= 07JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	42	150.7	1.95	125	448.5	15.66
Turbellaria	0	0.0	0.00	5	17.9	0.63
Nemertea	0	0.0	0.00	1	3.6	0.13
Oligochaeta	3	10.8	0.14	12	43.1	1.50
Caecidotea	1	3.6	0.05	5	17.9	0.63
Hyalella azteca	1	3.6	0.05	0	0.0	0.00
Gammarus	29	104.1	1.35	97	348.0	12.16
Echinogammarus ischusa	19	68.2	0.88	10	35.9	1.25
Hydracarina	0	0.0	0.00	4	14.4	0.50
Cyrenellus fraternus	0	0.0	0.00	3	10.8	0.38
Hydropsyche orris	2	7.2	0.09	0	0.0	0.00
Hydroptila	0	0.0	0.00	1	3.6	0.13
Ablabesmyia mallochii	0	0.0	0.00	6	21.5	0.75
Thienemannimyia grp.	1	3.6	0.05	0	0.0	0.00
Cricotopus sylvestris grp.	0	0.0	0.00	2	7.2	0.25
Nanocladius distinctus	0	0.0	0.00	1	3.6	0.13
Dicrotendipes neomodestus	2	7.2	0.09	3	10.8	0.38
Dicrotendipes fumidus	4	14.4	0.19	1	3.6	0.13
Glyptotendipes	1	3.6	0.05	1	3.6	0.13
Paratendipes	0	0.0	0.00	5	17.9	0.63
Rheotanytarsus	0	0.0	0.00	1	3.6	0.13
Tanytarsus	1	3.6	0.05	0	0.0	0.00
Tanytarsus glabrescens grp.	0	0.0	0.00	2	7.2	0.25
Tanytarsus sepp	0	0.0	0.00	1	3.6	0.13
Hemerodromia	1	3.6	0.05	0	0.0	0.00
Physa	0	0.0	0.00	14	50.2	1.75
Ferrissia	0	0.0	0.00	7	25.1	0.88
Dreissena bugensis	2,046	7,341.2	95.03	491	1,761.8	61.53
TOTAL BENTHOS	2,153	7,725.2	100.00	798	2,863.3	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= DES PLAINES R.,
 LOCATION= LAKE COOK RD.,
 STATION= 13,
 and DATE= 11MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	30	107.6	1.08	0	0.0	0.00
Turbellaria	20	71.8	0.72	0	0.0	0.00
Oligochaeta	20	71.8	0.72	175	627.9	16.92
Helobdella stagnalis	0	0.0	0.00	9	32.3	0.87
Ostracoda	0	0.0	0.00	27	96.9	2.61
Caecidotea	0	0.0	0.00	4	14.4	0.39
Gammarus	5	17.9	0.18	139	498.7	13.44
Procambarus	0	0.0	0.00	2	7.2	0.19
Baetis intercalaris	250	897.0	9.04	0	0.0	0.00
Centroptilum	0	0.0	0.00	1	3.6	0.10
Stenacron	5	17.9	0.18	20	71.8	1.93
Maccaffertium integrum	130	466.5	4.70	0	0.0	0.00
Tricorythodes	155	556.2	5.61	40	143.5	3.87
Anthopotamus myops grp.	0	0.0	0.00	5	17.9	0.48
Hexagenia	0	0.0	0.00	1	3.6	0.10
Argia	0	0.0	0.00	6	21.5	0.58
Enallagma	0	0.0	0.00	1	3.6	0.10
Corixidae	0	0.0	0.00	1	3.6	0.10
Sialis	0	0.0	0.00	1	3.6	0.10
Cheumatopsyche	775	2,780.8	28.03	71	254.8	6.87
Hydropsyche	550	1,973.4	19.89	0	0.0	0.00
Hydropsyche orris	10	35.9	0.36	0	0.0	0.00
Hydropsyche bidens	95	340.9	3.44	0	0.0	0.00
Nectopsyche	0	0.0	0.00	5	17.9	0.48
Dubiraphia	0	0.0	0.00	16	57.4	1.55
Macronychus glabratus	0	0.0	0.00	1	3.6	0.10
Ceratopogonidae	0	0.0	0.00	2	7.2	0.19
Procladius	0	0.0	0.00	5	17.9	0.48
Ablabesmyia mallochii	0	0.0	0.00	30	107.6	2.90
Thienemannimyia grp.	37	132.8	1.34	35	125.6	3.38
Thienemanniella xena	22	78.9	0.80	0	0.0	0.00
Thienemanniella similis	7	25.1	0.25	0	0.0	0.00
Cricotopus tremulus grp.	22	78.9	0.80	0	0.0	0.00
Cricotopus bicinctus grp.	37	132.8	1.34	0	0.0	0.00
Nanocladius distinctus	22	78.9	0.80	64	229.6	6.19
Rheocricotopus robacki	45	161.5	1.63	0	0.0	0.00
Dicrotendipes neomodestus	7	25.1	0.25	0	0.0	0.00
Dicrotendipes lucifer	0	0.0	0.00	15	53.8	1.45
Endochironomus nigricans	0	0.0	0.00	5	17.9	0.48
Glyptotendipes	0	0.0	0.00	193	692.5	18.67
Harnischia	0	0.0	0.00	5	17.9	0.48
Microtendipes	7	25.1	0.25	0	0.0	0.00
Parachironomus	0	0.0	0.00	25	89.7	2.42
Paratendipes	0	0.0	0.00	5	17.9	0.48
Polypedilum flavum	410	1,471.1	14.83	20	71.8	1.93
Polypedilum scalaenum grp.	7	25.1	0.25	49	175.8	4.74
Tribelos fuscicorne	0	0.0	0.00	10	35.9	0.97
Cladotanytarsus mancus grp.	0	0.0	0.00	10	35.9	0.97
Rheotanytarsus	97	348.0	3.51	5	17.9	0.48
Tanytarsus glabrescens grp.	0	0.0	0.00	15	53.8	1.45
Corbicula fluminea	0	0.0	0.00	16	57.4	1.55
TOTAL BENTHOS	2,765	9,921.1	100.00	1,034	3,710.1	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= DES PLAINES R., LOCATION= MATERIAL SERVICE RD., STATION= 91, and DATE= 17MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	197	706.9	11.48	100	358.8	2.63
Plumatella	0	0.0	0.00	1	3.6	0.03
Oligochaeta	13	46.6	0.76	125	448.5	3.28
Ostracoda	0	0.0	0.00	50	179.4	1.31
Gammarus	0	0.0	0.00	5	17.9	0.13
Baetis intercalaris	160	574.1	9.32	40	143.5	1.05
Enallagma	0	0.0	0.00	5	17.9	0.13
Cheumatopsyche	583	2,091.9	33.97	620	2,224.6	16.29
Hydropsyche	37	132.8	2.16	0	0.0	0.00
Hydropsyche orris	3	10.8	0.17	15	53.8	0.39
Hydropsyche simulans	133	477.2	7.75	510	1,829.9	13.40
Ceratopsyche morosa	77	276.3	4.49	65	233.2	1.71
Hydroptila	0	0.0	0.00	10	35.9	0.26
Thienemanniya grp.	0	0.0	0.00	22	78.9	0.58
Thienemanniella similis	5	17.9	0.29	0	0.0	0.00
Nanocladius distinctus	0	0.0	0.00	67	240.4	1.76
Dicrotendipes neomodestus	0	0.0	0.00	22	78.9	0.58
Dicrotendipes lucifer	5	17.9	0.29	0	0.0	0.00
Parachironomus	0	0.0	0.00	22	78.9	0.58
Polypedilum flavum	330	1,184.1	19.23	1,270	4,556.9	33.37
Polypedilum scalaenum grp.	0	0.0	0.00	22	78.9	0.58
Rheotanytarsus	140	502.3	8.16	780	2,798.7	20.49
Simulium	33	118.4	1.92	40	143.5	1.05
Ferrissia	0	0.0	0.00	15	53.8	0.39
TOTAL BENTHOS	1,716	6,157.2	100.00	3,806	13,656.3	100.00

WATERWAY= G.C.R., LOCATION= BURNHAM AVE., STATION= 86, and DATE= 06JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	647	2,321.5	81.80	847	3,039.1	88.88
Helobdella stagnalis	17	61.0	2.15	3	10.8	0.31
Erpobdella punctata punctata	1	3.6	0.13	0	0.0	0.00
Caecidotea	1	3.6	0.13	0	0.0	0.00
Enallagma	1	3.6	0.13	0	0.0	0.00
Tanytus	28	100.5	3.54	10	35.9	1.05
Procladius	0	0.0	0.00	1	3.6	0.10
Ablabesmyia mallochi	1	3.6	0.13	3	10.8	0.31
Cricotopus sylvestris grp.	40	143.5	5.06	3	10.8	0.31
Chironomus	1	3.6	0.13	2	7.2	0.21
Dicrotendipes modestus	0	0.0	0.00	1	3.6	0.10
Dicrotendipes lucifer	1	3.6	0.13	5	17.9	0.52
Dicrotendipes simpsoni	0	0.0	0.00	9	32.3	0.94
Endochironomus nigricans	1	3.6	0.13	0	0.0	0.00
Glyptotendipes	0	0.0	0.00	2	7.2	0.21
Parachironomus	43	154.3	5.44	64	229.6	6.72
Paratanytarsus	0	0.0	0.00	1	3.6	0.10
Physa	3	10.8	0.38	2	7.2	0.21
Helisoma	6	21.5	0.76	0	0.0	0.00
TOTAL BENTHOS	791	2,838.2	100.00	953	3,419.4	100.00

WATERWAY= HIGGINS CR., LOCATION= WILLE RD., STATION= 78, and DATE= 08MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	15	53.8	0.42
Turbellaria	190	681.7	1.52	80	287.0	2.22
Plumatella	1	3.6	0.01	0	0.0	0.00
Oligochaeta	2,080	7,463.2	16.61	415	1,489.1	11.53
Erpobdella punctata punctata	10	35.9	0.08	10	35.9	0.28
Ostracoda	20	71.8	0.16	0	0.0	0.00
Caecidotea	5,740	20,595.6	45.85	1,770	6,350.9	49.18
Procambarus	0	0.0	0.00	5	17.9	0.14
Cheumatopsyche	0	0.0	0.00	5	17.9	0.14
Cricotopus bicinctus grp.	3,755	13,473.3	29.99	902	3,236.5	25.06
Cricotopus sylvestris grp.	588	2,109.8	4.70	103	369.6	2.86
Chironomus	0	0.0	0.00	64	229.6	1.78
Dicrotendipes neomodestus	0	0.0	0.00	77	276.3	2.14
Harnischia	0	0.0	0.00	26	93.3	0.72
Parachironomus	0	0.0	0.00	13	46.6	0.36
Polypedilum illinoense	45	161.5	0.36	64	229.6	1.78
Physa	90	322.9	0.72	45	161.5	1.25
Ferrissia	0	0.0	0.00	5	17.9	0.14
TOTAL BENTHOS	12,519	44,919.3	100.00	3,599	12,913.5	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= L.C.R.,
 LOCATION= ASHLAND AVE.,
 STATION= 57,
 and DATE= 05JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	2	7.2	0.40
Turbellaria	1	3.6	0.20	2	7.2	0.40
Oligochaeta	19	68.2	3.75	18	64.6	3.61
Placobdella	1	3.6	0.20	0	0.0	0.00
Caecidotea	0	0.0	0.00	1	3.6	0.20
Gammarus	135	484.4	26.68	180	645.9	36.07
Echinogammarus ischusa	2	7.2	0.40	2	7.2	0.40
Baetis intercalaris	1	3.6	0.20	0	0.0	0.00
Stenacron	1	3.6	0.20	5	17.9	1.00
Argia	1	3.6	0.20	1	3.6	0.20
Cyrtellus fraternus	1	3.6	0.20	8	28.7	1.60
Cheumatopsyche	1	3.6	0.20	0	0.0	0.00
Thienemannimyia grp.	4	14.4	0.79	0	0.0	0.00
Thienemanniella xena	0	0.0	0.00	2	7.2	0.40
Cricotopus bicinctus grp.	11	39.5	2.17	4	14.4	0.80
Nanocladius distinctus	4	14.4	0.79	0	0.0	0.00
Chironomus	7	25.1	1.38	0	0.0	0.00
Cryptochironomus	4	14.4	0.79	0	0.0	0.00
Dicrotendipes neomodestus	46	165.1	9.09	16	57.4	3.21
Dicrotendipes lucifer	88	315.8	17.39	36	129.2	7.21
Dicrotendipes simpsoni	11	39.5	2.17	16	57.4	3.21
Paratendipes	42	150.7	8.30	90	322.9	18.04
Polypedilum fallax grp.	11	39.5	2.17	0	0.0	0.00
Polypedilum illinoense	42	150.7	8.30	16	57.4	3.21
Polypedilum scalaenum grp.	46	165.1	9.09	18	64.6	3.61
Tanytarsus glabrescens grp.	4	14.4	0.79	2	7.2	0.40
Menetus	0	0.0	0.00	4	14.4	0.80
Ferrissia	23	82.5	4.55	76	272.7	15.23
TOTAL BENTHOS	506	1,815.6	100.00	499	1,790.5	100.00

WATERWAY= L.C.R.,
 LOCATION= WENTWORTH AVE.,
 STATION= 52,
 and DATE= 06JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	30	107.6	2.17	100	358.8	9.54
Turbellaria	438	1,571.6	31.74	511	1,833.5	48.76
Oligochaeta	114	409.0	8.26	18	64.6	1.72
Helobdella papillata	20	71.8	1.45	4	14.4	0.38
Caecidotea	560	2,009.3	40.58	306	1,098.0	29.20
Crangonyx	10	35.9	0.72	40	143.5	3.82
Enallagma	4	14.4	0.29	4	14.4	0.38
Procladius	2	7.2	0.14	2	7.2	0.19
Ablabesmyia janta	10	35.9	0.72	5	17.9	0.48
Thienemannimyia grp.	2	7.2	0.14	0	0.0	0.00
Nanocladius distinctus	70	251.2	5.07	22	78.9	2.10
Cryptochironomus	0	0.0	0.00	1	3.6	0.10
Dicrotendipes simpsoni	46	165.1	3.33	10	35.9	0.95
Harnischia	0	0.0	0.00	3	10.8	0.29
Polypedilum fallax grp.	2	7.2	0.14	0	0.0	0.00
Polypedilum illinoense	30	107.6	2.17	13	46.6	1.24
Polypedilum scalaenum grp.	40	143.5	2.90	8	28.7	0.76
Paratanytarsus	2	7.2	0.14	0	0.0	0.00
Tanytarsus sepp	0	0.0	0.00	1	3.6	0.10
TOTAL BENTHOS	1,380	4,951.6	100.00	1,048	3,760.3	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= L.C.R.,
 LOCATION= HALSTED ST.,
 STATION= 76,
 and DATE= 08JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	1,118	4,011.5	23.37	3,090	11,087.2	48.51
Oligochaeta	154	552.6	3.22	30	107.6	0.47
Helobdella triserialis	2	7.2	0.04	0	0.0	0.00
Caecidotea	2	7.2	0.04	0	0.0	0.00
Hyalella azteca	0	0.0	0.00	10	35.9	0.16
Gammarus	97	348.0	2.03	50	179.4	0.78
Cyrenellus fraternus	5	17.9	0.10	10	35.9	0.16
Cricotopus bicinctus grp.	32	114.8	0.67	0	0.0	0.00
Nanocladius distinctus	48	172.2	1.00	20	71.8	0.31
Dicrotendipes lucifer	1,130	4,054.5	23.63	1,210	4,341.6	19.00
Dicrotendipes simpsoni	350	1,255.8	7.32	440	1,578.8	6.91
Parachironomus	0	0.0	0.00	20	71.8	0.31
Bithynia tentaculata	5	17.9	0.10	0	0.0	0.00
Physa	44	157.9	0.92	0	0.0	0.00
Helisoma	167	599.2	3.49	30	107.6	0.47
Ferrissia	88	315.8	1.84	70	251.2	1.10
Corbicula fluminea	1	3.6	0.02	0	0.0	0.00
Dreissena polymorpha	79	283.5	1.65	60	215.3	0.94
Dreissena bugensis	1,461	5,242.2	30.55	1,330	4,772.2	20.88
TOTAL BENTHOS	4,783	17,161.8	100.00	6,370	22,856.1	100.00

WATERWAY= L.C.R., LOCATION= INDIANA AVE.,
 STATION= 56,
 and DATE= 08JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	101	362.4	5.05	0	0.0	0.00
Turbellaria	1	3.6	0.05	0	0.0	0.00
Oligochaeta	8	28.7	0.40	230	825.3	2.91
Gammarus	138	495.2	6.90	40	143.5	0.51
Cyrenellus fraternus	163	584.9	8.15	130	466.5	1.65
Procladius	2	7.2	0.10	10	35.9	0.13
Ablabesmyia janta	6	21.5	0.30	0	0.0	0.00
Cricotopus bicinctus grp.	0	0.0	0.00	10	35.9	0.13
Nanocladius distinctus	21	75.3	1.05	10	35.9	0.13
Dicrotendipes fumidus	2	7.2	0.10	0	0.0	0.00
Dicrotendipes lucifer	115	412.6	5.75	380	1,363.5	4.81
Dicrotendipes simpsoni	39	139.9	1.95	150	538.2	1.90
Glyptotendipes	18	64.6	0.90	20	71.8	0.25
Stenochironomus	2	7.2	0.10	10	35.9	0.13
Corbicula fluminea	1	3.6	0.05	10	35.9	0.13
Dreissena polymorpha	214	767.9	10.70	1,030	3,695.7	13.04
Dreissena bugensis	1,169	4,194.5	58.45	5,870	21,062.1	74.30
TOTAL BENTHOS	2,000	7,176.2	100.00	7,900	28,345.9	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= N.B.C.R.,
 LOCATION= ALBANY AVE.,
 STATION= 96,
 and DATE= 21MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	31	111.2	2.30
Turbellaria	1	3.6	0.16	51	183.0	3.78
Oligochaeta	27	96.9	4.40	16	57.4	1.19
Caecidotea	14	50.2	2.28	532	1,908.9	39.44
Gammarus	25	89.7	4.07	202	724.8	14.97
Orconectes rusticus	0	0.0	0.00	2	7.2	0.15
Baetis intercalaris	117	419.8	19.06	7	25.1	0.52
Stenacron	2	7.2	0.33	7	25.1	0.52
Argia	0	0.0	0.00	1	3.6	0.07
Rheumatobates	0	0.0	0.00	1	3.6	0.07
Cheumatopsyche	255	915.0	41.53	21	75.3	1.56
Hydropsyche	0	0.0	0.00	2	7.2	0.15
Hydropsyche betteni	3	10.8	0.49	0	0.0	0.00
Hydropsyche orris	0	0.0	0.00	1	3.6	0.07
Ceratopsyche morosa	0	0.0	0.00	1	3.6	0.07
Hydroptila	0	0.0	0.00	1	3.6	0.07
Thienemannimyia grp.	1	3.6	0.16	2	7.2	0.15
Corynoneura	0	0.0	0.00	2	7.2	0.15
Thienemanniella xena	22	78.9	3.58	2	7.2	0.15
Brillia	0	0.0	0.00	4	14.4	0.30
Cricotopus tremulus grp.	0	0.0	0.00	13	46.6	0.96
Cricotopus bicinctus grp.	5	17.9	0.81	0	0.0	0.00
Cricotopus sylvestris grp.	3	10.8	0.49	0	0.0	0.00
Nanocladius distinctus	0	0.0	0.00	47	168.6	3.48
Rheocricotopus robacki	48	172.2	7.82	0	0.0	0.00
Dicrotendipes lucifer	0	0.0	0.00	2	7.2	0.15
Glyptotendipes	0	0.0	0.00	4	14.4	0.30
Polypedilum fallax grp.	1	3.6	0.16	2	7.2	0.15
Polypedilum flavum	22	78.9	3.58	0	0.0	0.00
Polypedilum illinoense	0	0.0	0.00	15	53.8	1.11
Polypedilum scalaenum grp.	27	96.9	4.40	56	200.9	4.15
Stictochironomus	0	0.0	0.00	2	7.2	0.15
Paratanytarsus	5	17.9	0.81	22	78.9	1.63
Tanytarsus sepp	1	3.6	0.16	7	25.1	0.52
Amnicola	0	0.0	0.00	2	7.2	0.15
Physa	0	0.0	0.00	1	3.6	0.07
Ferrissia	35	125.6	5.70	290	1,040.5	21.50
TOTAL BENTHOS	614	2,203.1	100.00	1,349	4,840.3	100.00

WATERWAY= N.B.C.R.,
 LOCATION= GRAND AVE.,
 STATION= 46,
 and DATE= 30MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	5	17.9	0.29	31	111.2	1.97
Turbellaria	554	1,987.8	31.82	30	107.6	1.91
Oligochaeta	774	2,777.2	44.46	804	2,884.8	51.08
Helobdella stagnalis	0	0.0	0.00	1	3.6	0.06
Caecidotea	2	7.2	0.11	0	0.0	0.00
Hyalella azteca	49	175.8	2.81	376	1,349.1	23.89
Gammarus	22	78.9	1.26	35	125.6	2.22
Nanocladius distinctus	10	35.9	0.57	6	21.5	0.38
Dicrotendipes lucifer	163	584.9	9.36	97	348.0	6.16
Dicrotendipes simpsoni	127	455.7	7.29	175	627.9	11.12
Glyptotendipes	26	93.3	1.49	15	53.8	0.95
Parachironomus	3	10.8	0.17	0	0.0	0.00
Polypedilum scalaenum grp.	3	10.8	0.17	3	10.8	0.19
Physa	0	0.0	0.00	1	3.6	0.06
Helisoma	2	7.2	0.11	0	0.0	0.00
Dreissena bugensis	1	3.6	0.06	0	0.0	0.00
TOTAL BENTHOS	1,741	6,246.9	100.00	1,574	5,647.6	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= N.S.C.,
 LOCATION= TOUHY AVE.,
 STATION= 36,
 and DATE= 30MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	10	35.9	0.04	1,180	4,233.9	5.77
Turbellaria	1,030	3,695.7	3.92	490	1,758.2	2.39
Oligochaeta	23,620	84,750.6	89.84	4,000	14,352.4	19.55
Mooreobdella microstoma	10	35.9	0.04	0	0.0	0.00
Ostracoda	0	0.0	0.00	30	107.6	0.15
Caecidotea	600	2,152.9	2.28	100	358.8	0.49
Hyalella azteca	0	0.0	0.00	360	1,291.7	1.76
Gammarus	0	0.0	0.00	650	2,332.3	3.18
Cricotopus sylvestris grp.	130	466.5	0.49	0	0.0	0.00
Nanocladius distinctus	150	538.2	0.57	0	0.0	0.00
Chironomus	50	179.4	0.19	270	968.8	1.32
Dicrotendipes modestus	50	179.4	0.19	0	0.0	0.00
Dicrotendipes lucifer	130	466.5	0.49	680	2,439.9	3.32
Dicrotendipes simpsoni	180	645.9	0.68	960	3,444.6	4.69
Glyptotendipes	250	897.0	0.95	11,350	40,724.8	55.47
Parachironomus	50	179.4	0.19	0	0.0	0.00
Phaenopsectra flavipes	10	35.9	0.04	0	0.0	0.00
Polypedilum illinoense	10	35.9	0.04	0	0.0	0.00
Paratanytarsus	10	35.9	0.04	270	968.8	1.32
Helisoma	0	0.0	0.00	110	394.7	0.54
Ferrissia	0	0.0	0.00	10	35.9	0.05
TOTAL BENTHOS	26,290	94,330.8	100.00	20,460	73,412.3	100.00

WATERWAY= SALT CR.,
 LOCATION= BUSSE DAM,
 STATION= SC1,
 and DATE= 15MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	2	7.2	0.30	10	35.9	0.27
Turbellaria	2	7.2	0.30	65	233.2	1.74
Oligochaeta	27	96.9	4.05	240	861.1	6.44
Ostracoda	0	0.0	0.00	15	53.8	0.40
Tricorythodes	0	0.0	0.00	5	17.9	0.13
Cheumatopsyche	162	581.3	24.32	600	2,152.9	16.11
Ablabesmyia janta	0	0.0	0.00	53	190.2	1.42
Thienemannimyia grp.	5	17.9	0.75	0	0.0	0.00
Cricotopus bicinctus grp.	44	157.9	6.61	267	958.0	7.17
Cricotopus sylvestris grp.	34	122.0	5.11	240	861.1	6.44
Nanocladius	0	0.0	0.00	53	190.2	1.42
Chironomus	0	0.0	0.00	27	96.9	0.72
Dicrotendipes neomodestus	0	0.0	0.00	80	287.0	2.15
Dicrotendipes fumidus	24	86.1	3.60	0	0.0	0.00
Dicrotendipes simpsoni	0	0.0	0.00	107	383.9	2.87
Glyptotendipes	0	0.0	0.00	53	190.2	1.42
Parachironomus	0	0.0	0.00	27	96.9	0.72
Polypedilum flavum	190	681.7	28.53	854	3,064.2	22.93
Polypedilum illinoense	176	631.5	26.43	961	3,448.2	25.80
Paratanytarsus	0	0.0	0.00	53	190.2	1.42
Phylla	0	0.0	0.00	5	17.9	0.13
Ferrissia	0	0.0	0.00	10	35.9	0.27
TOTAL BENTHOS	666	2,389.7	100.00	3,725	13,365.6	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= SALT CR., LOCATION= DEVON AVE.,
STATION= 18, and DATE= 15MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	65	233.2	1.30	20	71.8	0.84
Turbellaria	300	1,076.4	5.99	115	412.6	4.84
Oligochaeta	1,210	4,341.6	24.18	145	520.3	6.11
Helobdella triserialis	5	17.9	0.10	0	0.0	0.00
Caecidotea	40	143.5	0.80	5	17.9	0.21
Baetis intercalaris	10	35.9	0.20	0	0.0	0.00
Stenacron	5	17.9	0.10	0	0.0	0.00
Tricorythodes	50	179.4	1.00	15	53.8	0.63
Enallagma	5	17.9	0.10	0	0.0	0.00
Cheumatopsyche	1,430	5,131.0	28.57	635	2,278.4	26.74
Ceratopsyche morosa	5	17.9	0.10	0	0.0	0.00
Hydroptila	125	448.5	2.50	0	0.0	0.00
Dubiraphia	5	17.9	0.10	0	0.0	0.00
Stenelmis	10	35.9	0.20	0	0.0	0.00
Ablabesmyia janta	15	53.8	0.30	15	53.8	0.63
Ablabesmyia mallochi	0	0.0	0.00	15	53.8	0.63
Thienemannimyia grp.	135	484.4	2.70	60	215.3	2.53
Cricotopus tremulus grp.	15	53.8	0.30	15	53.8	0.63
Cricotopus bicinctus grp.	50	179.4	1.00	0	0.0	0.00
Cricotopus sylvestris grp.	50	179.4	1.00	0	0.0	0.00
Nanocladius distinctus	220	789.4	4.40	120	430.6	5.05
Chironomus	35	125.6	0.70	0	0.0	0.00
Cryptochironomus	100	358.8	2.00	0	0.0	0.00
Dicrotendipes neomodestus	170	610.0	3.40	120	430.6	5.05
Dicrotendipes lucifer	0	0.0	0.00	90	322.9	3.79
Dicrotendipes simpsoni	0	0.0	0.00	60	215.3	2.53
Endochironomus nigricans	35	125.6	0.70	15	53.8	0.63
Glyptotendipes	100	358.8	2.00	160	574.1	6.74
Parachironomus	35	125.6	0.70	30	107.6	1.26
Polypedilum flavum	250	897.0	5.00	220	789.4	9.26
Polypedilum illinoense	335	1,202.0	6.69	235	843.2	9.89
Polypedilum scalaenum grp.	15	53.8	0.30	30	107.6	1.26
Cladotanytarsus mancus grp.	65	233.2	1.30	30	107.6	1.26
Paratanytarsus	15	53.8	0.30	220	789.4	9.26
Simulium	5	17.9	0.10	0	0.0	0.00
Hemerodromia	10	35.9	0.20	0	0.0	0.00
Ferrissia	85	305.0	1.70	5	17.9	0.21
TOTAL BENTHOS	5,005	17,958.4	100.00	2,375	8,521.7	100.00

WATERWAY= SALT CR., LOCATION= THORNDALE AVE.,
STATION= SC3, and DATE= 15MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	70	251.2	1.62	5	17.9	0.29
Turbellaria	35	125.6	0.81	55	197.3	3.23
Oligochaeta	335	1,202.0	7.75	70	251.2	4.11
Caecidotea	5	17.9	0.12	0	0.0	0.00
Hyalella azteca	0	0.0	0.00	3	10.8	0.18
Baetis intercalaris	0	0.0	0.00	3	10.8	0.18
Stenacron	0	0.0	0.00	5	17.9	0.29
Tricorythodes	30	107.6	0.69	50	179.4	2.94
Argia	0	0.0	0.00	10	35.9	0.59
Cheumatopsyche	1,120	4,018.7	25.93	698	2,504.5	41.01
Ceratopsyche morosa	5	17.9	0.12	3	10.8	0.18
Hydroptila	20	71.8	0.46	0	0.0	0.00
Dubiraphia	10	35.9	0.23	0	0.0	0.00
Ablabesmyia janta	22	78.9	0.51	0	0.0	0.00
Thienemannimyia grp.	153	549.0	3.54	47	168.6	2.76
Thienemanniella xena	109	391.1	2.52	8	28.7	0.47
Cricotopus tremulus grp.	44	157.9	1.02	8	28.7	0.47
Cricotopus bicinctus grp.	131	470.0	3.03	8	28.7	0.47
Cricotopus sylvestris grp.	65	233.2	1.50	0	0.0	0.00
Nanocladius distinctus	371	1,331.2	8.59	134	480.8	7.87
Dicrotendipes neomodestus	480	1,722.3	11.11	63	226.0	3.70
Dicrotendipes fumidus	0	0.0	0.00	24	86.1	1.41
Dicrotendipes simpsoni	44	157.9	1.02	32	114.8	1.88
Endochironomus nigricans	44	157.9	1.02	0	0.0	0.00
Glyptotendipes	44	157.9	1.02	71	254.8	4.17
Parachironomus	87	312.2	2.01	8	28.7	0.47
Polypedilum flavum	697	2,500.9	16.13	276	990.3	16.22
Polypedilum halterale grp.	0	0.0	0.00	8	28.7	0.47
Polypedilum illinoense	87	312.2	2.01	39	139.9	2.29
Polypedilum scalaenum grp.	0	0.0	0.00	16	57.4	0.94
Cladotanytarsus mancus grp.	0	0.0	0.00	8	28.7	0.47
Paratanytarsus	22	78.9	0.51	8	28.7	0.47
Tanytarsus sepp	0	0.0	0.00	24	86.1	1.41
Simulium	25	89.7	0.58	0	0.0	0.00
Menetus	0	0.0	0.00	3	10.8	0.18
Ferrissia	265	950.8	6.13	15	53.8	0.88
TOTAL BENTHOS	4,320	15,500.5	100.00	1,702	6,106.9	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= THORN CR.,
 LOCATION= 170TH ST.,
 STATION= 97,
 and DATE= 05JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	1	3.6	0.47	1	3.6	0.10
Turbellaria	7	25.1	3.30	10	35.9	1.04
Oligochaeta	106	380.3	50.00	140	502.3	14.51
Helobdella stagnalis	0	0.0	0.00	1	3.6	0.10
Placobdella	1	3.6	0.47	0	0.0	0.00
Caecidotea	22	78.9	10.38	204	732.0	21.14
Crangonyx	3	10.8	1.42	6	21.5	0.62
Hydracarina	1	3.6	0.47	0	0.0	0.00
Baetis intercalaris	1	3.6	0.47	0	0.0	0.00
Stenacron	0	0.0	0.00	4	14.4	0.41
Argia	5	17.9	2.36	20	71.8	2.07
Cyrnellus fraternus	0	0.0	0.00	2	7.2	0.21
Cheumatopsyche	3	10.8	1.42	119	427.0	12.33
Tanypus	1	3.6	0.47	0	0.0	0.00
Procladius	1	3.6	0.47	2	7.2	0.21
Ablabesmyia janta	2	7.2	0.94	0	0.0	0.00
Ablabesmyia mallochii	0	0.0	0.00	10	35.9	1.04
Thienemannimyia grp.	0	0.0	0.00	16	57.4	1.66
Thienemanniella xena	1	3.6	0.47	2	7.2	0.21
Cricotopus bicinctus grp.	0	0.0	0.00	2	7.2	0.21
Nanocladius distinctus	1	3.6	0.47	4	14.4	0.41
Rheocricotopus robacki	3	10.8	1.42	36	129.2	3.73
Chironomus	2	7.2	0.94	12	43.1	1.24
Cryptochironomus	1	3.6	0.47	6	21.5	0.62
Dicrotendipes neomodestus	0	0.0	0.00	10	35.9	1.04
Dicrotendipes simpsoni	0	0.0	0.00	6	21.5	0.62
Harnischia	2	7.2	0.94	2	7.2	0.21
Polypedilum fallax grp.	11	39.5	5.19	14	50.2	1.45
Polypedilum illinoense	0	0.0	0.00	2	7.2	0.21
Polypedilum scalaenum grp.	22	78.9	10.38	46	165.1	4.77
Stenochironomus	0	0.0	0.00	2	7.2	0.21
Paratanytarsus	0	0.0	0.00	8	28.7	0.83
Tanytarsus glabrescens grp.	0	0.0	0.00	4	14.4	0.41
Tanytarsus sepp	0	0.0	0.00	6	21.5	0.62
Physa	0	0.0	0.00	3	10.8	0.31
Menetus	0	0.0	0.00	1	3.6	0.10
Ferrissia	5	17.9	2.36	175	627.9	18.13
Corbicula fluminea	10	35.9	4.72	89	319.3	9.22
TOTAL BENTHOS	212	760.7	100.00	965	3,462.5	100.00

WATERWAY= THORN CR.,
 LOCATION= JOE ORR RD.,
 STATION= 54,
 and DATE= 05JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	16	57.4	0.77	5	17.9	0.59
Turbellaria	38	136.3	1.83	26	93.3	3.08
Oligochaeta	944	3,387.2	45.58	373	1,338.4	44.19
Helobdella stagnalis	63	226.0	3.04	15	53.8	1.78
Mooreobdella microstoma	3	10.8	0.14	1	3.6	0.12
Caecidotea	203	728.4	9.80	132	473.6	15.64
Gammarus	1	3.6	0.05	1	3.6	0.12
Argia	1	3.6	0.05	1	3.6	0.12
Cheumatopsyche	21	75.3	1.01	1	3.6	0.12
Hydropsyche betteni	8	28.7	0.39	0	0.0	0.00
Tanypus	0	0.0	0.00	3	10.8	0.36
Ablabesmyia mallochii	0	0.0	0.00	3	10.8	0.36
Thienemannimyia grp.	46	165.1	2.22	6	21.5	0.71
Thienemanniella xena	8	28.7	0.39	0	0.0	0.00
Cricotopus bicinctus grp.	116	416.2	5.60	19	68.2	2.25
Nanocladius distinctus	39	139.9	1.88	6	21.5	0.71
Chironomus	39	139.9	1.88	55	197.3	6.52
Cryptochironomus	31	111.2	1.50	6	21.5	0.71
Dicrotendipes neomodestus	77	276.3	3.72	44	157.9	5.21
Endochironomus nigricans	0	0.0	0.00	3	10.8	0.36
Phaenopsectra	8	28.7	0.39	0	0.0	0.00
Polypedilum illinoense	131	470.0	6.33	14	50.2	1.66
Paratanytarsus	209	749.9	10.09	99	355.2	11.73
Tanytarsus glabrescens grp.	23	82.5	1.11	3	10.8	0.36
Simulium	1	3.6	0.05	1	3.6	0.12
Physa	7	25.1	0.34	12	43.1	1.42
Ferrissia	38	136.3	1.83	14	50.2	1.66
Corbicula fluminea	0	0.0	0.00	1	3.6	0.12
TOTAL BENTHOS	2,071	7,430.9	100.00	844	3,028.3	100.00

APPENDIX B1 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= W.B. DUPAGE R.,
 LOCATION= LAKE ST.,
 STATION= 64,
 and DATE= 08MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	50	179.4	1.13	80	287.0	2.05
Oligochaeta	60	215.3	1.35	90	322.9	2.31
Cheumatopsyche	390	1,399.4	8.79	30	107.6	0.77
Hydroptila	10	35.9	0.23	0	0.0	0.00
Ablabesmyia janta	0	0.0	0.00	72	258.3	1.85
Thienemannimyia grp.	75	269.1	1.69	72	258.3	1.85
Thienemanniella xena	38	136.3	0.86	36	129.2	0.92
Cricotopus tremulus grp.	0	0.0	0.00	144	516.7	3.69
Cricotopus bicinctus grp.	226	810.9	5.09	0	0.0	0.00
Cricotopus sylvestris grp.	151	541.8	3.40	0	0.0	0.00
Nanocladius minimus	904	3,243.6	20.37	323	1,159.0	8.28
Chironomus	75	269.1	1.69	0	0.0	0.00
Cladopelma	0	0.0	0.00	36	129.2	0.92
Dicrotendipes lucifer	264	947.3	5.95	180	645.9	4.62
Endochironomus nigricans	0	0.0	0.00	72	258.3	1.85
Glyptotendipes	1,205	4,323.6	27.16	2,477	8,887.7	63.53
Parachironomus	38	136.3	0.86	0	0.0	0.00
Polypedilum flavum	339	1,216.4	7.64	0	0.0	0.00
Polypedilum illinoense	414	1,485.5	9.33	251	900.6	6.44
Paratanytarsus	38	136.3	0.86	36	129.2	0.92
Simulium	160	574.1	3.61	0	0.0	0.00
TOTAL BENTHOS	4,437	15,920.3	100.00	3,899	13,990.0	100.00

WATERWAY= WOLF LAKE D.C.,
 LOCATION= BURNHAM AVE.,
 STATION= 50,
 and DATE= 06JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	0	0.0	0.00	8	28.7	80.00
Helobdella stagnalis	0	0.0	0.00	1	3.6	10.00
Peltodytes	0	0.0	0.00	1	3.6	10.00
Cricotopus sylvestris grp.	1	3.6	50.00	0	0.0	0.00
Endochironomus nigricans	1	3.6	50.00	0	0.0	0.00
TOTAL BENTHOS	2	7.2	100.00	10	35.9	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= C.S.C.,
 LOCATION= ASHLAND AVE.,
 STATION= 58,
 and DATE= 11JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	8,400	120,567.5	97.22	13,600	195,204.5	99.85
Mooreobdella microstoma	20	287.1	0.23	20	287.1	0.15
Procladius	200	2,870.7	2.31	0	0.0	0.00
Corbicula fluminea	10	143.5	0.12	0	0.0	0.00
Pisidium	10	143.5	0.12	0	0.0	0.00
TOTAL BENTHOS	8,640	124,012.2	100.00	13,620	195,491.5	100.00

WATERWAY= C.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 59,
 and DATE= 11JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	208	2,985.5	75.09	196	2,813.2	69.26
Mooreobdella microstoma	2	28.7	0.72	0	0.0	0.00
Gammarus	0	0.0	0.00	3	43.1	1.06
Procladius	60	861.2	21.66	67	961.7	23.67
Cryptochironomus	0	0.0	0.00	1	14.4	0.35
Dicrotendipes modestus	0	0.0	0.00	9	129.2	3.18
Dicrotendipes neomodestus	0	0.0	0.00	1	14.4	0.35
Ferrissia	0	0.0	0.00	1	14.4	0.35
Corbicula fluminea	2	28.7	0.72	5	71.8	1.77
Musculium	1	14.4	0.36	0	0.0	0.00
Dreissena polymorpha	1	14.4	0.36	0	0.0	0.00
Dreissena bugensis	3	43.1	1.08	0	0.0	0.00
TOTAL BENTHOS	277	3,975.9	100.00	283	4,062.0	100.00

WATERWAY= C.S.C.,
 LOCATION= ROUTE 83,
 STATION= 43,
 and DATE= 12JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	410	5,884.8	79.92	1,362	19,549.2	97.70
Mooreobdella microstoma	2	28.7	0.39	1	14.4	0.07
Procladius	91	1,306.1	17.74	29	416.2	2.08
Cryptochironomus	3	43.1	0.58	1	14.4	0.07
Harnischia	0	0.0	0.00	1	14.4	0.07
Corbicula fluminea	2	28.7	0.39	0	0.0	0.00
Musculium	5	71.8	0.97	0	0.0	0.00
TOTAL BENTHOS	513	7,363.2	100.00	1,394	20,008.5	100.00

WATERWAY= C.S.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 75,
 and DATE= 31MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	7	100.5	70.00	382	5,482.9	95.02
Placobdella	0	0.0	0.00	3	43.1	0.75
Hyalella azteca	0	0.0	0.00	1	14.4	0.25
Procladius	0	0.0	0.00	2	28.7	0.50
Chironomus	0	0.0	0.00	1	14.4	0.25
Corbicula fluminea	3	43.1	30.00	13	186.6	3.23
TOTAL BENTHOS	10	143.5	100.00	402	5,770.0	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= C.S.S.C., LOCATION= HARLEM AVE., STATION= 41,
and DATE= 31MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	306	4,392.1	10.17
Turbellaria	0	0.0	0.00	315	4,521.3	10.47
Oligochaeta	12,760	183,147.7	99.61	2,355	33,801.9	78.24
Helobdella stagnalis	0	0.0	0.00	10	143.5	0.33
Helobdella triserialis	0	0.0	0.00	3	43.1	0.10
Caecidotea	0	0.0	0.00	5	71.8	0.17
Hyalella azteca	0	0.0	0.00	6	86.1	0.20
Cyrenellus fraternus	0	0.0	0.00	1	14.4	0.03
Chironomus	50	717.7	0.39	0	0.0	0.00
Dicrotendipes lucifer	0	0.0	0.00	4	57.4	0.13
Dicrotendipes simpsoni	0	0.0	0.00	2	28.7	0.07
Cladotanytarsus mancus grp.	0	0.0	0.00	1	14.4	0.03
Eupera cubensis	0	0.0	0.00	2	28.7	0.07
TOTAL BENTHOS	12,810	183,865.4	100.00	3,010	43,203.3	100.00

WATERWAY= C.S.S.C., LOCATION= LOCKPORT, STATION= 92,
and DATE= 25MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	1,781	25,563.2	98.34	197	2,827.6	89.14
Procladius	9	129.2	0.50	13	186.6	5.88
Chironomus	0	0.0	0.00	2	28.7	0.90
Cryptochironomus	0	0.0	0.00	3	43.1	1.36
Corbicula fluminea	21	301.4	1.16	5	71.8	2.26
Musculium	0	0.0	0.00	1	14.4	0.45
TOTAL BENTHOS	1,811	25,993.8	100.00	221	3,172.1	100.00

WATERWAY= CALUMET R., LOCATION= 130TH ST., STATION= 55,
and DATE= 07JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	114	1,636.3	41.30	185	2,655.4	88.52
Gammarus	2	28.7	0.72	4	57.4	1.91
Hydracarina	1	14.4	0.36	0	0.0	0.00
Caenis	0	0.0	0.00	1	14.4	0.48
Hydroptila	0	0.0	0.00	2	28.7	0.96
Dicrotendipes neomodestus	1	14.4	0.36	0	0.0	0.00
Dreissena bugensis	158	2,267.8	57.25	17	244.0	8.13
TOTAL BENTHOS	276	3,961.5	100.00	209	2,999.8	100.00

WATERWAY= CALUMET R., LOCATION= EWING AVE., STATION= 49,
and DATE= 07JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	13	186.6	5.94	244	3,502.2	62.72
Gammarus	2	28.7	0.91	0	0.0	0.00
Procladius	0	0.0	0.00	19	272.7	4.88
Ablabesmyia mallochii	2	28.7	0.91	0	0.0	0.00
Cricotopus bicinctus grp.	47	674.6	21.46	0	0.0	0.00
Cricotopus sylvestris grp.	17	244.0	7.76	0	0.0	0.00
Nanocladius distinctus	2	28.7	0.91	0	0.0	0.00
Chironomus	2	28.7	0.91	1	14.4	0.26
Cladopelma	0	0.0	0.00	2	28.7	0.51
Cryptochironomus	3	43.1	1.37	7	100.5	1.80
Dicrotendipes modestus	23	330.1	10.50	0	0.0	0.00
Dicrotendipes neomodestus	7	100.5	3.20	0	0.0	0.00
Dicrotendipes fumidus	12	172.2	5.48	0	0.0	0.00
Dicrotendipes simpsoni	2	28.7	0.91	0	0.0	0.00
Microchironomus	0	0.0	0.00	2	28.7	0.51
Parachironomus	2	28.7	0.91	0	0.0	0.00
Polypedilum scalaenum grp.	20	287.1	9.13	13	186.6	3.34
Paratanytarsus	27	387.5	12.33	0	0.0	0.00
Tanytarsus sepp	2	28.7	0.91	0	0.0	0.00
Pisidium	0	0.0	0.00	1	14.4	0.26
Dreissena polymorpha	0	0.0	0.00	1	14.4	0.26
Dreissena bugensis	36	516.7	16.44	99	1,421.0	25.45
TOTAL BENTHOS	219	3,143.4	100.00	389	5,583.4	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= DES PLAINES R.,
 LOCATION= LAKE COOK RD.,
 STATION= 13,
 and DATE= 11MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	165	2,368.3	20.68	15	215.3	3.36
Crangonyx	2	28.7	0.25	3	43.1	0.67
Tricorythodes	10	143.5	1.25	7	100.5	1.57
Hexagenia	0	0.0	0.00	1	14.4	0.22
Cheumatopsyche	177	2,540.5	22.18	103	1,478.4	23.09
Ceraclea maculata	0	0.0	0.00	1	14.4	0.22
Dubiraphia	0	0.0	0.00	1	14.4	0.22
Stenelmis	0	0.0	0.00	1	14.4	0.22
Thienemannimyia grp.	35	502.4	4.39	17	244.0	3.81
Rheocricotopus robacki	4	57.4	0.50	8	114.8	1.79
Cryptochironomus	9	129.2	1.13	22	315.8	4.93
Glyptotendipes	0	0.0	0.00	3	43.1	0.67
Microtendipes	71	1,019.1	8.90	19	272.7	4.26
Polypedilum flavum	9	129.2	1.13	8	114.8	1.79
Polypedilum illinoense	4	57.4	0.50	0	0.0	0.00
Polypedilum scalaenum grp.	40	574.1	5.01	58	832.5	13.00
Cladotanytarsus mancus grp.	177	2,540.5	22.18	125	1,794.2	28.03
Tanytarsus glabrescens grp.	80	1,148.3	10.03	8	114.8	1.79
Corbicula fluminea	12	172.2	1.50	42	602.8	9.42
Pisidium	3	43.1	0.38	4	57.4	0.90
TOTAL BENTHOS	798	11,453.9	100.00	446	6,401.6	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= MATERIAL SERVICE RD.,
 STATION= 91,
 and DATE= 17MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	0	0.0	0.00	4	57.4	0.20
Oligochaeta	1,081	15,515.9	93.84	1,551	22,261.9	77.28
Helobdella stagnalis	3	43.1	0.26	8	114.8	0.40
Mooreobdella microstoma	2	28.7	0.17	3	43.1	0.15
Ostracoda	0	0.0	0.00	261	3,746.2	13.00
Caecidotea	0	0.0	0.00	2	28.7	0.10
Gammarus	1	14.4	0.09	107	1,535.8	5.33
Corixidae	0	0.0	0.00	13	186.6	0.65
Hydroptila	0	0.0	0.00	1	14.4	0.05
Tanypus	0	0.0	0.00	3	43.1	0.15
Procladius	1	14.4	0.09	9	129.2	0.45
Chironomus	61	875.5	5.30	39	559.8	1.94
Polypedilum illinoense	0	0.0	0.00	1	14.4	0.05
Valvata	0	0.0	0.00	1	14.4	0.05
Physa	1	14.4	0.09	0	0.0	0.00
Corbicula fluminea	2	28.7	0.17	4	57.4	0.20
TOTAL BENTHOS	1,152	16,535.0	100.00	2,007	28,807.0	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= OGDEN AVE.,
 STATION= 22,
 and DATE= 21MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	24	344.5	11.76	0	0.0	0.00
Oligochaeta	7	100.5	3.43	77	1,105.2	53.47
Helobdella triserialis	2	28.7	0.98	0	0.0	0.00
Gammarus	2	28.7	0.98	1	14.4	0.69
Baetis intercalaris	2	28.7	0.98	0	0.0	0.00
Tricorythodes	2	28.7	0.98	0	0.0	0.00
Cheumatopsyche	2	28.7	0.98	0	0.0	0.00
Stenelmis	0	0.0	0.00	1	14.4	0.69
Thienemannimyia grp.	2	28.7	0.98	0	0.0	0.00
Thienemanniella xena	3	43.1	1.47	0	0.0	0.00
Thienemanniella similis	1	14.4	0.49	0	0.0	0.00
Cryptochironomus	0	0.0	0.00	1	14.4	0.69
Polypedilum flavum	0	0.0	0.00	1	14.4	0.69
Polypedilum illinoense	0	0.0	0.00	1	14.4	0.69
Polypedilum scalaenum grp.	1	14.4	0.49	1	14.4	0.69
Corbicula fluminea	156	2,239.1	76.47	61	875.5	42.36
TOTAL BENTHOS	204	2,928.1	100.00	144	2,066.9	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= G.C.R.,
 LOCATION= BURNHAM AVE.,
 STATION= 86,
 and DATE= 06JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	1,584	22,735.6	94.29	2,013	28,893.1	98.34
Libellulidae	1	14.4	0.06	0	0.0	0.00
Tanytus	83	1,191.3	4.94	27	387.5	1.32
Psectrotanytus	1	14.4	0.06	3	43.1	0.15
Ablabesmyia mallochi	3	43.1	0.18	1	14.4	0.05
Cricotopus sylvestris grp.	3	43.1	0.18	1	14.4	0.05
Chironomus	1	14.4	0.06	1	14.4	0.05
Parachironomus	4	57.4	0.24	1	14.4	0.05
TOTAL BENTHOS	1,680	24,113.5	100.00	2,047	29,381.1	100.00

WATERWAY= HIGGINS CR.,
 LOCATION= WILLE RD.,
 STATION= 78,
 and DATE= 08MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	223	3,200.8	3.17	50	717.7	2.17
Plumatella	0	0.0	0.00	1	14.4	0.04
Oligochaeta	1,714	24,601.5	24.39	138	1,980.8	5.99
Erpobdella punctata punctata	16	229.7	0.23	21	301.4	0.91
Ostracoda	86	1,234.4	1.22	2	28.7	0.09
Caecidotea	559	8,023.5	7.96	256	3,674.4	11.12
Hydracarina	1	14.4	0.01	0	0.0	0.00
Laccophilus maculosus	0	0.0	0.00	2	28.7	0.09
Procladius	0	0.0	0.00	18	258.4	0.78
Thienemannimyia grp.	46	660.3	0.65	18	258.4	0.78
Cricotopus tremulus grp.	46	660.3	0.65	0	0.0	0.00
Cricotopus bicinctus grp.	3,479	49,935.0	49.51	1,486	21,329.0	64.55
Cricotopus sylvestris grp.	778	11,166.8	11.07	142	2,038.2	6.17
Chironomus	0	0.0	0.00	71	1,019.1	3.08
Dicrotendipes neomodestus	0	0.0	0.00	35	502.4	1.52
Parachironomus	0	0.0	0.00	18	258.4	0.78
Polypedilum illinoense	0	0.0	0.00	18	258.4	0.78
Paratanytarsus	0	0.0	0.00	18	258.4	0.78
Simulium	1	14.4	0.01	0	0.0	0.00
Amnicola	0	0.0	0.00	1	14.4	0.04
Physa	76	1,090.8	1.08	0	0.0	0.00
Menetus	2	28.7	0.03	0	0.0	0.00
Pisidium	0	0.0	0.00	7	100.5	0.30
TOTAL BENTHOS	7,027	100,860.4	100.00	2,302	33,041.2	100.00

WATERWAY= L.C.R.,
 LOCATION= ASHLAND AVE.,
 STATION= 57,
 and DATE= 05JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	--	--	--	22	315.8	68.75
Procladius	--	--	--	5	71.8	15.63
Chironomus	--	--	--	1	14.4	3.13
Dicrotendipes neomodestus	--	--	--	1	14.4	3.13
Dicrotendipes simpsoni	--	--	--	1	14.4	3.13
Paratanytarsus	--	--	--	2	28.7	6.25
TOTAL BENTHOS	--	--	--	32	459.3	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= L.C.R.,
 LOCATION= WENTWORTH AVE.,
 STATION= 52,
 and DATE= 06JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	6	86.1	0.78	0	0.0	0.00
Oligochaeta	488	7,004.4	63.21	243	3,487.8	71.05
Helobdella papillata	0	0.0	0.00	1	14.4	0.29
Erpobdella punctata punctata	1	14.4	0.13	0	0.0	0.00
Mooreobdella microstoma	26	373.2	3.37	9	129.2	2.63
Caecidotea	32	459.3	4.15	4	57.4	1.17
Crangonyx	3	43.1	0.39	0	0.0	0.00
Argia	1	14.4	0.13	0	0.0	0.00
Stenelmis	0	0.0	0.00	1	14.4	0.29
Procladius	9	129.2	1.17	18	258.4	5.26
Ablabesmyia janta	5	71.8	0.65	0	0.0	0.00
Ablabesmyia mallochi	1	14.4	0.13	0	0.0	0.00
Cryptochironomus	2	28.7	0.26	5	71.8	1.46
Dicrotendipes simpsoni	6	86.1	0.78	8	114.8	2.34
Harnischia	2	28.7	0.26	1	14.4	0.29
Polypedilum illinoense	12	172.2	1.55	2	28.7	0.58
Polypedilum scalaenum grp.	24	344.5	3.11	34	488.0	9.94
Tanytarsus sepp	3	43.1	0.39	0	0.0	0.00
Valvata	19	272.7	2.46	5	71.8	1.46
Amnicola	6	86.1	0.78	0	0.0	0.00
Corbicula fluminea	0	0.0	0.00	4	57.4	1.17
Musculium	117	1,679.3	15.16	0	0.0	0.00
Pisidium	9	129.2	1.17	7	100.5	2.05
TOTAL BENTHOS	772	11,080.7	100.00	342	4,908.8	100.00

WATERWAY= L.C.R.,
 LOCATION= HALSTED ST.,
 STATION= 76,
 and DATE= 08JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	0	0.0	0.00	5	71.8	0.14
Plumatella	0	0.0	0.00	1	14.4	0.03
Oligochaeta	895	12,846.2	99.44	3,095	44,423.4	85.59
Hyalella azteca	0	0.0	0.00	190	2,727.1	5.25
Gammarus	0	0.0	0.00	105	1,507.1	2.90
Procladius	4	57.4	0.44	100	1,435.3	2.77
Cricotopus bicinctus grp.	0	0.0	0.00	5	71.8	0.14
Cricotopus sylvestris grp.	1	14.4	0.11	0	0.0	0.00
Dicrotendipes neomodestus	0	0.0	0.00	15	215.3	0.41
Dicrotendipes lucifer	0	0.0	0.00	5	71.8	0.14
Dicrotendipes simpsoni	0	0.0	0.00	5	71.8	0.14
Microchironomus	0	0.0	0.00	5	71.8	0.14
Corbicula fluminea	0	0.0	0.00	50	717.7	1.38
Pisidium	0	0.0	0.00	5	71.8	0.14
Dreissena bugensis	0	0.0	0.00	30	430.6	0.83
TOTAL BENTHOS	900	12,917.9	100.00	3,616	51,901.4	100.00

WATERWAY= L.C.R.,
 LOCATION= INDIANA AVE.,
 STATION= 56,
 and DATE= 08JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	288	4,133.7	91.43	175	2,511.8	81.40
Tanytus	1	14.4	0.32	0	0.0	0.00
Procladius	6	86.1	1.90	16	229.7	7.44
Coelotanytus	13	186.6	4.13	3	43.1	1.40
Chironomus	3	43.1	0.95	0	0.0	0.00
Cryptochironomus	3	43.1	0.95	2	28.7	0.93
Dicrotendipes simpsoni	0	0.0	0.00	1	14.4	0.47
Microchironomus	0	0.0	0.00	11	157.9	5.12
Polypedilum scalaenum grp.	1	14.4	0.32	6	86.1	2.79
Dreissena bugensis	0	0.0	0.00	1	14.4	0.47
TOTAL BENTHOS	315	4,521.3	100.00	215	3,086.0	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= N.B.C.R., LOCATION= ALBANY AVE., STATION= 96, and DATE= 21MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	26	373.2	39.39	75	1,076.5	96.15
Cryptochironomus	1	14.4	1.52	0	0.0	0.00
Polypedilum scalaenum grp.	35	502.4	53.03	0	0.0	0.00
Amnicola	0	0.0	0.00	1	14.4	1.28
Ferrissia	0	0.0	0.00	1	14.4	1.28
Musculium	4	57.4	6.06	1	14.4	1.28
TOTAL BENTHOS	66	947.3	100.00	78	1,119.6	100.00

WATERWAY= N.B.C.R., LOCATION= GRAND AVE., STATION= 46, and DATE= 30MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	1,143	16,405.8	98.79	311	4,463.9	99.68
Tanytus	1	14.4	0.09	0	0.0	0.00
Procladius	6	86.1	0.52	0	0.0	0.00
Polypedilum scalaenum grp.	1	14.4	0.09	0	0.0	0.00
Corbicula fluminea	1	14.4	0.09	1	14.4	0.32
Musculium	1	14.4	0.09	0	0.0	0.00
Pisidium	3	43.1	0.26	0	0.0	0.00
Dreissena polymorpha	1	14.4	0.09	0	0.0	0.00
TOTAL BENTHOS	1,157	16,606.7	100.00	312	4,478.2	100.00

WATERWAY= N.S.C., LOCATION= TOUHY AVE., STATION= 36, and DATE= 30MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	27	387.5	9.18
Turbellaria	1	14.4	0.07	0	0.0	0.00
Oligochaeta	1,305	18,731.0	96.74	253	3,631.4	86.05
Hyalella azteca	1	14.4	0.07	0	0.0	0.00
Procladius	0	0.0	0.00	1	14.4	0.34
Nanocladius distinctus	1	14.4	0.07	4	57.4	1.36
Chironomus	36	516.7	2.67	3	43.1	1.02
Dicrotendipes modestus	0	0.0	0.00	1	14.4	0.34
Dicrotendipes simpsoni	0	0.0	0.00	1	14.4	0.34
Glyptotendipes	0	0.0	0.00	2	28.7	0.68
Harnischia	3	43.1	0.22	0	0.0	0.00
Polypedilum scalaenum grp.	1	14.4	0.07	0	0.0	0.00
Paratanytarsus	1	14.4	0.07	1	14.4	0.34
Helisoma	0	0.0	0.00	1	14.4	0.34
TOTAL BENTHOS	1,349	19,362.6	100.00	294	4,219.9	100.00

WATERWAY= SALT CR., LOCATION= BUSSE DAM, STATION= SC1, and DATE= 15MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	75	1,076.5	1.67	173	2,483.1	13.22
Caecidotea	15	215.3	0.33	0	0.0	0.00
Cheumatopsyche	75	1,076.5	1.67	10	143.5	0.76
Dubiraphia	10	143.5	0.22	0	0.0	0.00
Cricotopus bicinctus grp.	86	1,234.4	1.92	34	488.0	2.60
Nanocladius distinctus	0	0.0	0.00	11	157.9	0.84
Chironomus	0	0.0	0.00	11	157.9	0.84
Cryptochironomus	173	2,483.1	3.86	0	0.0	0.00
Dicrotendipes neomodestus	216	3,100.3	4.82	80	1,148.3	6.11
Dicrotendipes fumidus	430	6,171.9	9.60	103	1,478.4	7.87
Dicrotendipes lucifer	0	0.0	0.00	34	488.0	2.60
Einfeldia natchitochaeae	43	617.2	0.96	34	488.0	2.60
Glyptotendipes	259	3,717.5	5.78	114	1,636.3	8.71
Parachironomus	0	0.0	0.00	11	157.9	0.84
Paratendipes	0	0.0	0.00	23	330.1	1.76
Polypedilum flavum	259	3,717.5	5.78	0	0.0	0.00
Polypedilum illinoense	43	617.2	0.96	160	2,296.5	12.22
Polypedilum scalaenum grp.	0	0.0	0.00	69	990.4	5.27
Pseudochironomus	259	3,717.5	5.78	183	2,626.6	13.98
Cladotanytarsus mancus grp.	2,501	35,897.5	55.84	149	2,138.6	11.38
Paratanytarsus	0	0.0	0.00	103	1,478.4	7.87
Ferrissia	10	143.5	0.22	0	0.0	0.00
Corbicula fluminea	25	358.8	0.56	7	100.5	0.53
TOTAL BENTHOS	4,479	64,288.3	100.00	1,309	18,788.4	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= SALT CR., OCATION= DEVON AVE., STATION= 18, and DATE= 15MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	30	430.6	0.99	143	2,052.5	27.19
Tricorythodes	0	0.0	0.00	1	14.4	0.19
Cheumatopsyche	0	0.0	0.00	8	114.8	1.52
Nectopsyche	0	0.0	0.00	1	14.4	0.19
Dubiraphia	0	0.0	0.00	3	43.1	0.57
Thienemanniella xena	0	0.0	0.00	4	57.4	0.76
Cricotopus bicinctus grp.	0	0.0	0.00	18	258.4	3.42
Cricotopus sylvestris grp.	0	0.0	0.00	29	416.2	5.51
Nanocladius distinctus	0	0.0	0.00	7	100.5	1.33
Cryptochironomus	262	3,760.6	8.62	37	531.1	7.03
Dicrotendipes neomodestus	29	416.2	0.95	29	416.2	5.51
Dicrotendipes fumidus	0	0.0	0.00	4	57.4	0.76
Parachironomus	0	0.0	0.00	4	57.4	0.76
Polypedilum flavum	0	0.0	0.00	15	215.3	2.85
Polypedilum halterale grp.	0	0.0	0.00	7	100.5	1.33
Polypedilum illinoense	0	0.0	0.00	11	157.9	2.09
Polypedilum scalaenum grp.	29	416.2	0.95	11	157.9	2.09
Pseudochironomus	0	0.0	0.00	11	157.9	2.09
Cladotanytarsus mancus grp.	2,650	38,036.2	87.20	173	2,483.1	32.89
Paratanytarsus	29	416.2	0.95	4	57.4	0.76
Simulium	0	0.0	0.00	1	14.4	0.19
Ferrissia	0	0.0	0.00	1	14.4	0.19
Corbicula fluminea	10	143.5	0.33	4	57.4	0.76
TOTAL BENTHOS	3,039	43,619.6	100.00	526	7,549.8	100.00

WATERWAY= SALT CR., LOCATION= THORNDALE AVE., STATION= SC3, and DATE= 15MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	5	71.8	0.19	0	0.0	0.00
Oligochaeta	415	5,956.6	15.42	99	1,421.0	11.57
Ostracoda	0	0.0	0.00	4	57.4	0.47
Cheumatopsyche	125	1,794.2	4.65	1	14.4	0.12
Hydroptila	5	71.8	0.19	0	0.0	0.00
Oecetis	5	71.8	0.19	0	0.0	0.00
Dubiraphia	15	215.3	0.56	3	43.1	0.35
Stenelmis	20	287.1	0.74	0	0.0	0.00
Thienemannimyia grp.	22	315.8	0.82	0	0.0	0.00
Thienemanniella xena	22	315.8	0.82	0	0.0	0.00
Cricotopus tremulus grp.	44	631.5	1.64	8	114.8	0.93
Cryptochironomus	197	2,827.6	7.32	165	2,368.3	19.28
Dicrotendipes neomodestus	131	1,880.3	4.87	0	0.0	0.00
Endochironomus nigricans	44	631.5	1.64	16	229.7	1.87
Harnischia	0	0.0	0.00	16	229.7	1.87
Polypedilum flavum	44	631.5	1.64	16	229.7	1.87
Polypedilum halterale grp.	153	2,196.1	5.69	55	789.4	6.43
Polypedilum scalaenum grp.	22	315.8	0.82	55	789.4	6.43
Pseudochironomus	0	0.0	0.00	8	114.8	0.93
Cladotanytarsus mancus grp.	1,402	20,123.3	52.10	401	5,755.7	46.85
Paratanytarsus	0	0.0	0.00	8	114.8	0.93
Simulium	10	143.5	0.37	0	0.0	0.00
Corbicula fluminea	10	143.5	0.37	1	14.4	0.12
TOTAL BENTHOS	2,691	38,624.6	100.00	856	12,286.4	100.00

WATERWAY= THORN CR., LOCATION= 170TH ST., STATION= 97, and DATE= 05JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	2	28.7	1.41	0	0.0	0.00
Oligochaeta	81	1,162.6	57.04	150	2,153.0	85.71
Helobdella stagnalis	1	14.4	0.70	1	14.4	0.57
Caecidotea	5	71.8	3.52	0	0.0	0.00
Argia	1	14.4	0.70	0	0.0	0.00
Cheumatopsyche	1	14.4	0.70	0	0.0	0.00
Procladius	1	14.4	0.70	0	0.0	0.00
Ablabesmyia mallochii	4	57.4	2.82	0	0.0	0.00
Thienemannimyia grp.	5	71.8	3.52	0	0.0	0.00
Nanocladius distinctus	3	43.1	2.11	0	0.0	0.00
Rheocricotopus robacki	2	28.7	1.41	1	14.4	0.57
Chironomus	2	28.7	1.41	0	0.0	0.00
Cryptochironomus	5	71.8	3.52	10	143.5	5.71
Harnischia	2	28.7	1.41	0	0.0	0.00
Polypedilum flavum	4	57.4	2.82	0	0.0	0.00
Polypedilum scalaenum grp.	10	143.5	7.04	5	71.8	2.86
Paratanytarsus	0	0.0	0.00	2	28.7	1.14
Tanytarsus glabrescens grp.	2	28.7	1.41	0	0.0	0.00
Ferrissia	1	14.4	0.70	0	0.0	0.00
Corbicula fluminea	10	143.5	7.04	6	86.1	3.43
TOTAL BENTHOS	142	2,038.2	100.00	175	2,511.8	100.00

APPENDIX B2 - 2007 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= THORN CR.,
 LOCATION= JOE ORR RD.,
 STATION= 54,
 and DATE= 05JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	14	200.9	25.00	33	473.7	50.77
Cricotopus bicinctus grp.	0	0.0	0.00	1	14.4	1.54
Chironomus	2	28.7	3.57	6	86.1	9.23
Cryptochironomus	6	86.1	10.71	2	28.7	3.08
Dicrotendipes neomodestus	0	0.0	0.00	2	28.7	3.08
Paratendipes	0	0.0	0.00	2	28.7	3.08
Polypedilum scalaenum grp.	33	473.7	58.93	19	272.7	29.23
Musculium	1	14.4	1.79	0	0.0	0.00
TOTAL BENTHOS	56	803.8	100.00	65	933.0	100.00

WATERWAY= W.B. DUPAGE R.,
 LOCATION= LAKE ST.,
 STATION= 64,
 and DATE= 08MAY07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Erpobdella punctata punctata	1	14.4	0.59	1	14.4	0.57
Crangonyx	0	0.0	0.00	1	14.4	0.57
Cheumatopsyche	2	28.7	1.18	0	0.0	0.00
Tanypus	0	0.0	0.00	2	28.7	1.14
Procladius	0	0.0	0.00	13	186.6	7.43
Ablabesmyia janta	0	0.0	0.00	2	28.7	1.14
Thienemannimyia grp.	2	28.7	1.18	0	0.0	0.00
Cricotopus bicinctus grp.	8	114.8	4.71	2	28.7	1.14
Cricotopus sylvestris grp.	2	28.7	1.18	2	28.7	1.14
Nanocladius distinctus	3	43.1	1.76	0	0.0	0.00
Chironomus	14	200.9	8.24	71	1,019.1	40.57
Cladopelma	0	0.0	0.00	13	186.6	7.43
Cryptochironomus	54	775.1	31.76	7	100.5	4.00
Dicrotendipes neomodestus	10	143.5	5.88	0	0.0	0.00
Dicrotendipes lucifer	0	0.0	0.00	12	172.2	6.86
Dicrotendipes simpsoni	0	0.0	0.00	3	43.1	1.71
Glyptotendipes	26	373.2	15.29	28	401.9	16.00
Parachironomus	2	28.7	1.18	0	0.0	0.00
Polypedilum illinoense	3	43.1	1.76	7	100.5	4.00
Polypedilum scalaenum grp.	30	430.6	17.65	0	0.0	0.00
Cladotanytarsus mancus grp.	2	28.7	1.18	2	28.7	1.14
Paratanytarsus	3	43.1	1.76	3	43.1	1.71
Tanytarsus	0	0.0	0.00	3	43.1	1.71
Simulium	6	86.1	3.53	2	28.7	1.14
Corbicula fluminea	2	28.7	1.18	1	14.4	0.57
TOTAL BENTHOS	170	2,440.1	100.00	175	2,511.8	100.00

WATERWAY= WOLF LAKE D.C.,
 LOCATION= BURNHAM AVE.,
 STATION= 50,
 and DATE= 06JUN07

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	0	0.0	--	33	473.7	60.00
Caenis	0	0.0	--	1	14.4	1.82
Tanypus	0	0.0	--	20	287.1	36.36
Hydrobaenus	0	0.0	--	1	14.4	1.82
TOTAL BENTHOS	0	0.0	--	55	789.4	100.00

Appendix C

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= BUFFALO CR., LOCATION= LAKE COOK RD.,
STATION= 12,
and DATE= 17JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	25	89.7	1.34	363	1,302.5	24.33
Turbellaria	470	1,686.4	25.16	210	753.5	14.08
Oligochaeta	758	2,719.8	40.58	47	168.6	3.15
Helobdella stagnalis	3	10.8	0.16	0	0.0	0.00
Erpobdella punctata punctata	8	28.7	0.43	0	0.0	0.00
Caecidotea	0	0.0	0.00	1	3.6	0.07
Hyalella azteca	0	0.0	0.00	2	7.2	0.13
Orconectes rusticus	3	10.8	0.16	0	0.0	0.00
Baetis intercalaris	10	35.9	0.54	8	28.7	0.54
Stenacron	8	28.7	0.43	10	35.9	0.67
Tricorythodes	0	0.0	0.00	2	7.2	0.13
Caenis	0	0.0	0.00	9	32.3	0.60
Sialis	0	0.0	0.00	1	3.6	0.07
Cheumatopsyche	108	387.5	5.78	105	376.7	7.04
Hydropsyche simulans	3	10.8	0.16	0	0.0	0.00
Ceraclea maculata	0	0.0	0.00	1	3.6	0.07
Dubiraphia	3	10.8	0.16	2	7.2	0.13
Stenelmis	18	64.6	0.96	3	10.8	0.20
Ablabesmyia mallochii	5	17.9	0.27	0	0.0	0.00
Thienemannimyia grp.	18	64.6	0.96	81	290.6	5.43
Thienemanniella xena	5	17.9	0.27	0	0.0	0.00
Nanocladius distinctus	45	161.5	2.41	44	157.9	2.95
Chironomus	5	17.9	0.27	0	0.0	0.00
Cladopelma	5	17.9	0.27	0	0.0	0.00
Cryptochironomus	13	46.6	0.70	15	53.8	1.01
Dicrotendipes modestus	5	17.9	0.27	0	0.0	0.00
Dicrotendipes neomodestus	63	226.0	3.37	117	419.8	7.84
Dicrotendipes simpsoni	63	226.0	3.37	117	419.8	7.84
Endochironomus nigricans	5	17.9	0.27	0	0.0	0.00
Glyptotendipes	95	340.9	5.09	95	340.9	6.37
Microtendipes	5	17.9	0.27	7	25.1	0.47
Parachironomus	5	17.9	0.27	0	0.0	0.00
Paratendipes	13	46.6	0.70	22	78.9	1.47
Polypedilum fallax grp.	0	0.0	0.00	7	25.1	0.47
Polypedilum flavum	55	197.3	2.94	147	527.4	9.85
Polypedilum illinoense	5	17.9	0.27	15	53.8	1.01
Polypedilum scalaenum grp.	5	17.9	0.27	7	25.1	0.47
Pseudochironomus	0	0.0	0.00	7	25.1	0.47
Paratanytarsus	23	82.5	1.23	22	78.9	1.47
Rheotanytarsus	10	35.9	0.54	7	25.1	0.47
Tanytarsus	0	0.0	0.00	7	25.1	0.47
Physa	0	0.0	0.00	4	14.4	0.27
Ferrissia	0	0.0	0.00	2	7.2	0.13
Sphaerium	0	0.0	0.00	2	7.2	0.13
Musculium	3	10.8	0.16	1	3.6	0.07
Pisidium	0	0.0	0.00	2	7.2	0.13
TOTAL BENTHOS	1,868	6,702.5	100.00	1,492	5,353.4	100.00

WATERWAY= C.S.C., LOCATION= CICERO AVE.,
STATION= 59,
and DATE= 06AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	218	782.2	22.24	0	0.0	0.00
Oligochaeta	278	997.5	28.37	526	1,887.3	36.78
Caecidotea	0	0.0	0.00	2	7.2	0.14
Hyalella azteca	0	0.0	0.00	45	161.5	3.15
Gammarus	15	53.8	1.53	17	61.0	1.19
Cyrrnellus fraternus	13	46.6	1.33	2	7.2	0.14
Hydroptila	0	0.0	0.00	1	3.6	0.07
Procladius	18	64.6	1.84	16	57.4	1.12
Ablabesmyia mallochii	18	64.6	1.84	24	86.1	1.68
Cricotopus bicinctus grp.	0	0.0	0.00	71	254.8	4.97
Cricotopus sylvestris grp.	8	28.7	0.82	55	197.3	3.85
Nanocladius distinctus	38	136.3	3.88	24	86.1	1.68
Chironomus	1	3.6	0.10	0	0.0	0.00
Dicrotendipes neomodestus	0	0.0	0.00	39	139.9	2.73
Dicrotendipes lucifer	0	0.0	0.00	329	1,180.5	23.01
Dicrotendipes simpsoni	0	0.0	0.00	79	283.5	5.52
Endochironomus nigricans	0	0.0	0.00	8	28.7	0.56
Glyptotendipes	23	82.5	2.35	8	28.7	0.56
Parachironomus	0	0.0	0.00	16	57.4	1.12
Polypedilum illinoense	16	57.4	1.63	86	308.6	6.01
Stenochironomus	18	64.6	1.84	0	0.0	0.00
Paratanytarsus	18	64.6	1.84	39	139.9	2.73
Ferrissia	50	179.4	5.10	3	10.8	0.21
Corbicula fluminea	3	10.8	0.31	0	0.0	0.00
Dreissena polymorpha	245	879.1	25.00	33	118.4	2.31
Dreissena bugensis	0	0.0	0.00	7	25.1	0.49
TOTAL BENTHOS	980	3,516.3	100.00	1,430	5,131.0	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= C.S.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 75,
 and DATE= 31JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	19	68.2	1.00	20	71.8	0.49
Turbellaria	1	3.6	0.05	380	1,363.5	9.22
Oligochaeta	1,054	3,781.8	55.44	3,030	10,871.9	73.54
Placobdella papillifera	1	3.6	0.05	0	0.0	0.00
Placobdella pediculata	4	14.4	0.21	0	0.0	0.00
Hyalabella azteca	0	0.0	0.00	240	861.1	5.83
Gammarus	12	43.1	0.63	0	0.0	0.00
Cyrenellus fraternus	2	7.2	0.11	0	0.0	0.00
Ablabesmyia janta	31	111.2	1.63	0	0.0	0.00
Cricotopus bicinctus grp.	0	0.0	0.00	10	35.9	0.24
Nanocladius distinctus	31	111.2	1.63	60	215.3	1.46
Dicrotendipes lucifer	412	1,478.3	21.67	100	358.8	2.43
Dicrotendipes simpsoni	334	1,198.4	17.57	260	932.9	6.31
Physa	0	0.0	0.00	10	35.9	0.24
Helisoma	0	0.0	0.00	10	35.9	0.24
TOTAL BENTHOS	1,901	6,821.0	100.00	4,120	14,782.9	100.00

WATERWAY= C.S.S.C.,
 LOCATION= HARLEM AVE.,
 STATION= 41,
 and DATE= 31JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	60	215.3	1.33	53	190.2	2.69
Turbellaria	1,240	4,449.2	27.59	265	950.8	13.47
Oligochaeta	2,465	8,844.6	54.84	913	3,275.9	46.39
Helobdella triserialis	0	0.0	0.00	3	10.8	0.15
Placobdella papillifera	0	0.0	0.00	8	28.7	0.41
Caecidotea	55	197.3	1.22	0	0.0	0.00
Hyalabella azteca	10	35.9	0.22	0	0.0	0.00
Cyrenellus fraternus	15	53.8	0.33	38	136.3	1.93
Ablabesmyia janta	35	125.6	0.78	35	125.6	1.78
Cricotopus bicinctus grp.	0	0.0	0.00	8	28.7	0.41
Nanocladius distinctus	5	17.9	0.11	20	71.8	1.02
Dicrotendipes lucifer	300	1,076.4	6.67	295	1,058.5	14.99
Dicrotendipes simpsoni	290	1,040.5	6.45	330	1,184.1	16.77
Polypedilum illinoense	5	17.9	0.11	0	0.0	0.00
Helisoma	15	53.8	0.33	0	0.0	0.00
TOTAL BENTHOS	4,495	16,128.5	100.00	1,968	7,061.4	100.00

WATERWAY= C.S.S.C., LOCATION= LOCKPORT,
 STATION= 92,
 and DATE= 30JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	2,310	8,288.5	68.12	146	523.9	16.92
Turbellaria	285	1,022.6	8.40	107	383.9	12.40
Urnatella gracilis	1	3.6	0.03	0	0.0	0.00
Oligochaeta	140	502.3	4.13	26	93.3	3.01
Helobdella stagnalis	0	0.0	0.00	3	10.8	0.35
Placobdella papillifera	5	17.9	0.15	3	10.8	0.35
Hyalabella azteca	25	89.7	0.74	112	401.9	12.98
Gammarus	100	358.8	2.95	139	498.7	16.11
Stenacron	0	0.0	0.00	1	3.6	0.12
Maccaffertium integrum	0	0.0	0.00	1	3.6	0.12
Cyrenellus fraternus	35	125.6	1.03	158	566.9	18.31
Ablabesmyia janta	45	161.5	1.33	9	32.3	1.04
Thienemannimyia grp.	10	35.9	0.29	0	0.0	0.00
Nanocladius distinctus	30	107.6	0.88	2	7.2	0.23
Chironomus	5	17.9	0.15	0	0.0	0.00
Dicrotendipes lucifer	175	627.9	5.16	59	211.7	6.84
Dicrotendipes simpsoni	40	143.5	1.18	27	96.9	3.13
Glyptotendipes	0	0.0	0.00	3	10.8	0.35
Polypedilum flavum	0	0.0	0.00	2	7.2	0.23
Helisoma	120	430.6	3.54	0	0.0	0.00
Ferrissia	10	35.9	0.29	59	211.7	6.84
Corbicula fluminea	30	107.6	0.88	0	0.0	0.00
Eupera cubensis	5	17.9	0.15	0	0.0	0.00
Musculium	20	71.8	0.59	4	14.4	0.46
Dreissena polymorpha	0	0.0	0.00	2	7.2	0.23
TOTAL BENTHOS	3,391	12,167.2	100.00	863	3,096.5	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= CALUMET R., LOCATION= 130TH ST., STATION= 55,
and DATE= 07AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	80	287.0	0.85	0	0.0	0.00
Plumatella	0	0.0	0.00	1	3.6	0.00
Oligochaeta	10	35.9	0.11	0	0.0	0.00
Gammarus	190	681.7	2.02	200	717.6	0.85
Echinogammarus ischusa	120	430.6	1.28	0	0.0	0.00
Cyrenellus fraternus	10	35.9	0.11	0	0.0	0.00
Dicrotendipes lucifer	40	143.5	0.43	100	358.8	0.43
Glyptotendipes	10	35.9	0.11	0	0.0	0.00
Paratanytarsus	10	35.9	0.11	0	0.0	0.00
Dreissena polymorpha	1,500	5,382.1	15.96	11,300	40,545.4	48.08
Dreissena bugensis	7,430	26,659.5	79.04	11,900	42,698.2	50.64
TOTAL BENTHOS	9,400	33,728.0	100.00	23,501	84,323.6	100.00

WATERWAY= DES PLAINES R., LOCATION= BELMONT AVE., STATION= 19,
and DATE= 28JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	1	3.6	0.10	0	0.0	0.00
Gammarus	0	0.0	0.00	15	53.8	18.29
Orconectes	0	0.0	0.00	1	3.6	1.22
Baetis intercalaris	168	602.8	17.34	1	3.6	1.22
Stenacron	0	0.0	0.00	44	157.9	53.66
Enallagma	0	0.0	0.00	1	3.6	1.22
Trepobates	0	0.0	0.00	2	7.2	2.44
Cheumatopsyche	602	2,160.0	62.13	3	10.8	3.66
Hydropsyche betteni	2	7.2	0.21	0	0.0	0.00
Hydropsyche simulans	2	7.2	0.21	0	0.0	0.00
Ceratopsyche morosa	4	14.4	0.41	0	0.0	0.00
Macronychus glabratus	2	7.2	0.21	2	7.2	2.44
Stenelmis	2	7.2	0.21	0	0.0	0.00
Thienemannimyia grp.	4	14.4	0.41	1	3.6	1.22
Corynoneura lobata	4	14.4	0.41	1	3.6	1.22
Thienemanniella xena	2	7.2	0.21	0	0.0	0.00
Thienemanniella similis	4	14.4	0.41	0	0.0	0.00
Nanocladius distinctus	4	14.4	0.41	0	0.0	0.00
Rheocricotopus robacki	22	78.9	2.27	0	0.0	0.00
Polypedilum flavum	101	362.4	10.42	0	0.0	0.00
Polypedilum illinoense	2	7.2	0.21	0	0.0	0.00
Polypedilum scalaenum grp.	0	0.0	0.00	2	7.2	2.44
Stenochironomus	0	0.0	0.00	1	3.6	1.22
Rheotanytarsus	40	143.5	4.13	2	7.2	2.44
Simulium	1	3.6	0.10	0	0.0	0.00
Ferrissia	2	7.2	0.21	6	21.5	7.32
TOTAL BENTHOS	969	3,476.9	100.00	82	294.2	100.00

WATERWAY= DES PLAINES R., LOCATION= LAKE COOK RD., STATION= 13,
and DATE= 17JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	790	2,834.6	61.72	20	71.8	1.16
Oligochaeta	10	35.9	0.78	10	35.9	0.58
Gammarus	10	35.9	0.78	20	71.8	1.16
Baetis intercalaris	35	125.6	2.73	0	0.0	0.00
Leucrocota	5	17.9	0.39	0	0.0	0.00
Stenacron	0	0.0	0.00	78	279.9	4.54
Maccaffertium integrum	0	0.0	0.00	38	136.3	2.21
Maccaffertium terminatum	0	0.0	0.00	8	28.7	0.47
Tricorythodes	80	287.0	6.25	48	172.2	2.79
Anthopotamus myops grp.	0	0.0	0.00	5	17.9	0.29
Trepobates	0	0.0	0.00	3	10.8	0.17
Cheumatopsyche	0	0.0	0.00	1,188	4,262.6	69.11
Hydropsyche simulans	65	233.2	5.08	53	190.2	3.08
Stenelmis	5	17.9	0.39	0	0.0	0.00
Procladius	0	0.0	0.00	3	10.8	0.17
Thienemannimyia grp.	5	17.9	0.39	23	82.5	1.34
Corynoneura lobata	0	0.0	0.00	25	89.7	1.45
Rheocricotopus robacki	15	53.8	1.17	25	89.7	1.45
Dicrotendipes neomodestus	0	0.0	0.00	3	10.8	0.17
Glyptotendipes	0	0.0	0.00	10	35.9	0.58
Microtendipes	10	35.9	0.78	3	10.8	0.17
Phaenopsectra obediens	0	0.0	0.00	3	10.8	0.17
Polypedilum flavum	230	825.3	17.97	118	423.4	6.86
Polypedilum scalaenum grp.	5	17.9	0.39	0	0.0	0.00
Cladotanytarsus vanderwulpi grp.	10	35.9	0.78	0	0.0	0.00
Rheotanytarsus	5	17.9	0.39	35	125.6	2.04
TOTAL BENTHOS	1,280	4,592.8	100.00	1,719	6,167.9	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= DES PLAINES R.,
 LOCATION= MATERIAL SERVICE RD.,
 STATION= 91,
 and DATE= 30JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	835	2,996.1	19.90	660	2,368.1	11.34
Oligochaeta	55	197.3	1.31	150	538.2	2.58
Baetis intercalaris	40	143.5	0.95	160	574.1	2.75
Tricorythodes	0	0.0	0.00	10	35.9	0.17
Metrobates	0	0.0	0.00	0	0.0	0.00
Rhagovelia	0	0.0	0.00	10	35.9	0.17
Cheumatopsyche	890	3,193.4	21.22	1,530	5,489.8	26.29
Hydropsyche simulans	60	215.3	1.43	700	2,511.7	12.03
Hydropsyche bidens	25	89.7	0.60	260	932.9	4.47
Ceratopsyche morosa	175	627.9	4.17	550	1,973.4	9.45
Macronychus glabratus	5	17.9	0.12	0	0.0	0.00
Thienemanniella similis	0	0.0	0.00	20	71.8	0.34
Nanocladius distinctus	20	71.8	0.48	130	466.5	2.23
Nanocladius crassicornus/rectinervis	20	71.8	0.48	70	251.2	1.20
Glyptotendipes	20	71.8	0.48	20	71.8	0.34
Polypedilum flavum	1,830	6,566.2	43.62	1,490	5,346.3	25.60
Rheotanytarsus	215	771.4	5.13	60	215.3	1.03
Ferrissia	5	17.9	0.12	0	0.0	0.00
TOTAL BENTHOS	4,195	15,052.0	100.00	5,820	20,882.7	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= OAKTON ST.,
 STATION= 17,
 and DATE= 22JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	1	3.6	0.14
Turbellaria	0	0.0	0.00	15	53.8	2.07
Oligochaeta	15	53.8	0.70	122	437.7	16.87
Helobdella stagnalis	0	0.0	0.00	1	3.6	0.14
Mooreobdella microstoma	0	0.0	0.00	3	10.8	0.41
Caecidotea	3	10.8	0.14	9	32.3	1.24
Gammarus	198	710.4	9.30	306	1,098.0	42.32
Baetis intercalaris	53	190.2	2.49	0	0.0	0.00
Stenacron	0	0.0	0.00	196	703.3	27.11
Maccaffertium integrum	3	10.8	0.14	0	0.0	0.00
Maccaffertium terminatum	18	64.6	0.85	0	0.0	0.00
Tricorythodes	0	0.0	0.00	3	10.8	0.41
Argia	0	0.0	0.00	2	7.2	0.28
Enallagma	0	0.0	0.00	1	3.6	0.14
Cyrnellus fraternus	8	28.7	0.38	3	10.8	0.41
Cheumatopsyche	538	1,930.4	25.27	32	114.8	4.43
Hydropsyche simulans	93	333.7	4.37	8	28.7	1.11
Hydropsyche bidens	5	17.9	0.23	0	0.0	0.00
Macronychus glabratus	3	10.8	0.14	0	0.0	0.00
Stenelmis	28	100.5	1.32	4	14.4	0.55
Ablabesmyia janta	0	0.0	0.00	1	3.6	0.14
Labrundinia	13	46.6	0.61	0	0.0	0.00
Thienemannimyia grp.	63	226.0	2.96	1	3.6	0.14
Corynoneura lobata	13	46.6	0.61	0	0.0	0.00
Nanocladius distinctus	0	0.0	0.00	1	3.6	0.14
Rheocricotopus robacki	113	405.5	5.31	0	0.0	0.00
Polypedilum flavum	485	1,740.2	22.78	2	7.2	0.28
Polypedilum illinoense	0	0.0	0.00	1	3.6	0.14
Polypedilum scalaenum grp.	113	405.5	5.31	3	10.8	0.41
Stenochironomus	13	46.6	0.61	0	0.0	0.00
Cladotanytarsus vanderwulpi grp.	13	46.6	0.61	0	0.0	0.00
Rheotanytarsus	323	1,159.0	15.17	5	17.9	0.69
Phyllon	0	0.0	0.00	1	3.6	0.14
Ferrissia	15	53.8	0.70	2	7.2	0.28
TOTAL BENTHOS	2,129	7,639.0	100.00	723	2,594.2	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= DES PLAINES R.,
 LOCATION= OGDEN AVE.,
 STATION= 22,
 and DATE= 13AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	70	251.2	1.64	7	25.1	0.27
Oligochaeta	40	143.5	0.94	43	154.3	1.69
Gammarus	0	0.0	0.00	7	25.1	0.27
Orconectes rusticus	10	35.9	0.23	0	0.0	0.00
Baetis intercalaris	310	1,112.3	7.28	153	549.0	6.01
Stenacron	20	71.8	0.47	7	25.1	0.27
Tricorythodes	40	143.5	0.94	17	61.0	0.67
Enallagma	0	0.0	0.00	3	10.8	0.12
Cyrnellus fraternus	0	0.0	0.00	7	25.1	0.27
Cheumatopsyche	2,520	9,042.0	59.15	1,157	4,151.4	45.43
Hydropsyche betteni	60	215.3	1.41	7	25.1	0.27
Ceratopsyche morosa	730	2,619.3	17.14	870	3,121.6	34.16
Labrundinia	20	71.8	0.47	7	25.1	0.27
Thienemannimyia grp.	20	71.8	0.47	7	25.1	0.27
Corynoneura lobata	10	35.9	0.23	13	46.6	0.51
Thienemanniella xena	0	0.0	0.00	10	35.9	0.39
Cricotopus bicinctus grp.	0	0.0	0.00	7	25.1	0.27
Cricotopus sylvestris grp.	0	0.0	0.00	3	10.8	0.12
Nanocladius distinctus	0	0.0	0.00	20	71.8	0.79
Nanocladius crassicornus/rectinervis	0	0.0	0.00	3	10.8	0.12
Rheocricotopus robacki	40	143.5	0.94	20	71.8	0.79
Tvetenia discoloripes grp.	10	35.9	0.23	0	0.0	0.00
Parachironomus	0	0.0	0.00	3	10.8	0.12
Polypedilum flavum	350	1,255.8	8.22	170	610.0	6.67
Polypedilum scalaenum grp.	10	35.9	0.23	3	10.8	0.12
Rheotanytarsus	0	0.0	0.00	3	10.8	0.12
TOTAL BENTHOS	4,260	15,285.3	100.00	2,547	9,138.9	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= ROOSEVELT RD.,
 STATION= 20,
 and DATE= 23JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	1	3.6	0.45	3	10.8	0.39
Oligochaeta	44	157.9	20.00	214	767.9	27.65
Mooreobdella microstoma	0	0.0	0.00	2	7.2	0.26
Caecidotea	4	14.4	1.82	275	986.7	35.53
Gammarus	2	7.2	0.91	58	208.1	7.49
Hydracarina	1	3.6	0.45	0	0.0	0.00
Baetis intercalaris	1	3.6	0.45	2	7.2	0.26
Stenacron	56	200.9	25.45	35	125.6	4.52
Tricorythodes	1	3.6	0.45	0	0.0	0.00
Enallagma	7	25.1	3.18	2	7.2	0.26
Cyrnellus fraternus	1	3.6	0.45	1	3.6	0.13
Cheumatopsyche	3	10.8	1.36	5	17.9	0.65
Procladius	5	17.9	2.27	14	50.2	1.81
Ablabesmyia mallochi	1	3.6	0.45	5	17.9	0.65
Thienemannimyia grp.	5	17.9	2.27	4	14.4	0.52
Corynoneura lobata	3	10.8	1.36	2	7.2	0.26
Nanocladius distinctus	1	3.6	0.45	4	14.4	0.52
Nanocladius crassicornus/rectinervis	1	3.6	0.45	0	0.0	0.00
Rheocricotopus robacki	1	3.6	0.45	0	0.0	0.00
Chironomus	0	0.0	0.00	1	3.6	0.13
Polypedilum flavum	0	0.0	0.00	1	3.6	0.13
Polypedilum illinoense	0	0.0	0.00	2	7.2	0.26
Polypedilum scalaenum grp.	4	14.4	1.82	63	226.0	8.14
Stenochironomus	0	0.0	0.00	2	7.2	0.26
Tribelos jucundum	1	3.6	0.45	1	3.6	0.13
Rheotanytarsus	7	25.1	3.18	0	0.0	0.00
Tanytarsus	0	0.0	0.00	1	3.6	0.13
Physa	0	0.0	0.00	1	3.6	0.13
Ferrissia	70	251.2	31.82	76	272.7	9.82
TOTAL BENTHOS	220	789.4	100.00	774	2,777.2	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= DES PLAINES R.,
 LOCATION= STEPHEN ST.,
 STATION= 29,
 and DATE= 12AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	5	17.9	0.12	0	0.0	0.00
Plumatella	0	0.0	0.00	1	3.6	0.03
Oligochaeta	40	143.5	0.96	65	233.2	1.92
Gammarus	0	0.0	0.00	10	35.9	0.29
Hydracarina	5	17.9	0.12	10	35.9	0.29
Collembola	0	0.0	0.00	10	35.9	0.29
Baetis intercalaris	15	53.8	0.36	10	35.9	0.29
Maccaffertium integrum	10	35.9	0.24	0	0.0	0.00
Tricorythodes	15	53.8	0.36	0	0.0	0.00
Caenis	0	0.0	0.00	5	17.9	0.15
Enallagma	0	0.0	0.00	5	17.9	0.15
Cheumatopsyche	1,925	6,907.1	46.11	890	3,193.4	26.25
Hydropsyche simulans	0	0.0	0.00	15	53.8	0.44
Hydropsyche bidens	325	1,166.1	7.78	210	753.5	6.19
Ceratopsyche morosa	115	412.6	2.75	0	0.0	0.00
Stenelmis	0	0.0	0.00	10	35.9	0.29
Thienemannimyia grp.	90	322.9	2.16	280	1,004.7	8.26
Thienemanniella similis	0	0.0	0.00	20	71.8	0.59
Cricotopus bicinctus grp.	0	0.0	0.00	20	71.8	0.59
Nanocladius distinctus	0	0.0	0.00	345	1,237.9	10.17
Nanocladius crassicornus/rectinervis	0	0.0	0.00	20	71.8	0.59
Dicrotendipes neomodestus	0	0.0	0.00	20	71.8	0.59
Glyptotendipes	0	0.0	0.00	110	394.7	3.24
Parachironomus	0	0.0	0.00	45	161.5	1.33
Polypedilum flavum	1,175	4,216.0	28.14	690	2,475.8	20.35
Polypedilum illinoense	0	0.0	0.00	45	161.5	1.33
Stenochironomus	20	71.8	0.48	45	161.5	1.33
Rheotanytarsus	435	1,560.8	10.42	430	1,542.9	12.68
Hemerodromia	0	0.0	0.00	25	89.7	0.74
Ferrissia	0	0.0	0.00	55	197.3	1.62
TOTAL BENTHOS	4,175	14,980.3	100.00	3,391	12,167.2	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= WILLOW SPRINGS RD.,
 STATION= 23,
 and DATE= 12AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	59	211.7	17.51	102	366.0	78.46
Helobdella stagnalis	1	3.6	0.30	3	10.8	2.31
Caecidotea	2	7.2	0.59	0	0.0	0.00
Gammarus	11	39.5	3.26	1	3.6	0.77
Stenacron	49	175.8	14.54	1	3.6	0.77
Argia	11	39.5	3.26	0	0.0	0.00
Cyrrnellus fraternus	16	57.4	4.75	3	10.8	2.31
Procladius	8	28.7	2.37	11	39.5	8.46
Ablabesmyia janta	49	175.8	14.54	0	0.0	0.00
Thienemannimyia grp.	16	57.4	4.75	0	0.0	0.00
Nanocladius distinctus	9	32.3	2.67	0	0.0	0.00
Dicrotendipes lucifer	8	28.7	2.37	1	3.6	0.77
Glyptotendipes	2	7.2	0.59	0	0.0	0.00
Harnischia	2	7.2	0.59	0	0.0	0.00
Polypedilum flavum	2	7.2	0.59	0	0.0	0.00
Polypedilum halterale grp.	4	14.4	1.19	0	0.0	0.00
Polypedilum illinoense	2	7.2	0.59	0	0.0	0.00
Polypedilum scalaenum grp.	61	218.9	18.10	2	7.2	1.54
Stenochironomus	16	57.4	4.75	0	0.0	0.00
Tribelos jucundum	4	14.4	1.19	6	21.5	4.62
Ferrissia	5	17.9	1.48	0	0.0	0.00
TOTAL BENTHOS	337	1,209.2	100.00	130	466.5	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= HIGGINS CR., LOCATION= ELMHURST RD., STATION= 77,
and DATE= 24JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	268	961.6	45.89	132	473.6	17.30
Helobdella	5	17.9	0.86	0	0.0	0.00
Erpobdella punctata punctata	3	10.8	0.51	4	14.4	0.52
Caecidotea	10	35.9	1.71	22	78.9	2.88
Hyalella azteca	10	35.9	1.71	7	25.1	0.92
Gammarus	0	0.0	0.00	1	3.6	0.13
Enallagma	3	10.8	0.51	0	0.0	0.00
Cheumatopsyche	3	10.8	0.51	0	0.0	0.00
Tanytus	8	28.7	1.37	17	61.0	2.23
Procladius	0	0.0	0.00	6	21.5	0.79
Cricotopus tremulus grp.	10	35.9	1.71	17	61.0	2.23
Cricotopus bicinctus grp.	70	251.2	11.99	51	183.0	6.68
Cricotopus sylvestris grp.	50	179.4	8.56	210	753.5	27.52
Nanocladius distinctus	38	136.3	6.51	6	21.5	0.79
Nanocladius crassicornus/rectinervis	15	53.8	2.57	0	0.0	0.00
Chironomus	15	53.8	2.57	142	509.5	18.61
Dicrotendipes neomodestus	5	17.9	0.86	23	82.5	3.01
Dicrotendipes simpsoni	5	17.9	0.86	17	61.0	2.23
Glyptotendipes	18	64.6	3.08	6	21.5	0.79
Parachironomus	5	17.9	0.86	11	39.5	1.44
Paratanytarsus	25	89.7	4.28	57	204.5	7.47
Rheotanytarsus	3	10.8	0.51	0	0.0	0.00
Physa	15	53.8	2.57	34	122.0	4.46
TOTAL BENTHOS	584	2,095.4	100.00	763	2,737.7	100.00

WATERWAY= HIGGINS CR., LOCATION= WILLE RD., STATION= 78,
and DATE= 24JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	0	0.0	0.00	14	50.2	2.06
Oligochaeta	450	1,614.6	3.61	76	272.7	11.18
Caecidotea	6,060	21,743.8	48.58	300	1,076.4	44.12
Cheumatopsyche	0	0.0	0.00	1	3.6	0.15
Thienemanniella xena	65	233.2	0.52	6	21.5	0.88
Cricotopus bicinctus grp.	4,940	17,725.2	39.60	231	828.8	33.97
Cricotopus sylvestris grp.	815	2,924.3	6.53	17	61.0	2.50
Nanocladius distinctus	65	233.2	0.52	17	61.0	2.50
Rheocricotopus robacki	0	0.0	0.00	3	10.8	0.44
Dicrotendipes neomodestus	0	0.0	0.00	3	10.8	0.44
Polypedilum illinoense	65	233.2	0.52	6	21.5	0.88
Simulium	15	53.8	0.12	1	3.6	0.15
Physa	0	0.0	0.00	5	17.9	0.74
TOTAL BENTHOS	12,475	44,761.4	100.00	680	2,439.9	100.00

WATERWAY= L.C.R., LOCATION= HALSTED ST., STATION= 76,
and DATE= 06AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	44	157.9	4.42	1,150	4,126.3	28.67
Turbellaria	10	35.9	1.00	30	107.6	0.75
Plumatella	1	3.6	0.10	1	3.6	0.02
Oligochaeta	54	193.8	5.42	250	897.0	6.23
Ostracoda	0	0.0	0.00	10	35.9	0.25
Caecidotea	3	10.8	0.30	0	0.0	0.00
Hyalella azteca	1	3.6	0.10	0	0.0	0.00
Gammarus	61	218.9	6.12	40	143.5	1.00
Cyrenellus fraternus	8	28.7	0.80	10	35.9	0.25
Procladius	10	35.9	1.00	30	107.6	0.75
Ablabesmyia janta	5	17.9	0.50	0	0.0	0.00
Cricotopus bicinctus grp.	24	86.1	2.41	30	107.6	0.75
Cricotopus sylvestris grp.	0	0.0	0.00	20	71.8	0.50
Nanocladius distinctus	5	17.9	0.50	170	610.0	4.24
Dicrotendipes neomodestus	5	17.9	0.50	0	0.0	0.00
Dicrotendipes lucifer	307	1,101.5	30.82	530	1,901.7	13.21
Dicrotendipes simpsoni	151	541.8	15.16	900	3,229.3	22.44
Glyptotendipes	0	0.0	0.00	20	71.8	0.50
Parachironomus	5	17.9	0.50	30	107.6	0.75
Polypedilum illinoense	0	0.0	0.00	20	71.8	0.50
Bithynia tentaculata	10	35.9	1.00	10	35.9	0.25
Physa	19	68.2	1.91	0	0.0	0.00
Helisoma	3	10.8	0.30	0	0.0	0.00
Ferrissia	0	0.0	0.00	50	179.4	1.25
Dreissena polymorpha	261	936.5	26.20	490	1,758.2	12.22
Dreissena bugensis	9	32.3	0.90	220	789.4	5.48
TOTAL BENTHOS	996	3,573.7	100.00	4,011	14,391.8	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= N.B.C.R., LOCATION= ALBANY AVE.,
STATION= 96,
and DATE= 08AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	4	14.4	0.26	2	7.2	0.17
Oligochaeta	10	35.9	0.66	7	25.1	0.59
Caecidotea	19	68.2	1.25	3	10.8	0.25
Gammarus	52	186.6	3.42	145	520.3	12.17
Hydracarina	0	0.0	0.00	1	3.6	0.08
Collembola	0	0.0	0.00	2	7.2	0.17
Baetis intercalaris	13	46.6	0.85	0	0.0	0.00
Stenacron	1	3.6	0.07	0	0.0	0.00
Cheumatopsyche	3	10.8	0.20	0	0.0	0.00
Labrundinia	0	0.0	0.00	1	3.6	0.08
Thienemannimyia grp.	2	7.2	0.13	0	0.0	0.00
Corynoneura lobata	2	7.2	0.13	4	14.4	0.34
Thienemanniella xena	82	294.2	5.39	0	0.0	0.00
Brillia	2	7.2	0.13	0	0.0	0.00
Cricotopus bicinctus grp.	26	93.3	1.71	0	0.0	0.00
Nanocladius distinctus	17	61.0	1.12	15	53.8	1.26
Rheocricotopus robacki	32	114.8	2.10	0	0.0	0.00
Polypedilum flavum	4	14.4	0.26	1	3.6	0.08
Polypedilum illinoense	22	78.9	1.45	30	107.6	2.52
Polypedilum scalaenum grp.	15	53.8	0.99	4	14.4	0.34
Stenochironomus	4	14.4	0.26	0	0.0	0.00
Paratanytarsus	4	14.4	0.26	0	0.0	0.00
Rheetanytarsus	2	7.2	0.13	0	0.0	0.00
Tanytarsus glabrescens grp.	0	0.0	0.00	1	3.6	0.08
Ferrissia	1,206	4,327.2	79.24	972	3,487.6	81.61
Dreissena bugensis	0	0.0	0.00	3	10.8	0.25
TOTAL BENTHOS	1,522	5,461.1	100.00	1,191	4,273.4	100.00

WATERWAY= N.B.C.R., LOCATION= GRAND AVE.,
STATION= 46,
and DATE= 29JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	14	50.2	0.72
Turbellaria	1,073	3,850.0	56.47	13	46.6	0.67
Plumatella	1	3.6	0.05	0	0.0	0.00
Oligochaeta	813	2,917.1	42.79	845	3,031.9	43.62
Caecidotea	7	25.1	0.37	0	0.0	0.00
Hyalella azteca	0	0.0	0.00	364	1,306.1	18.79
Gammarus	0	0.0	0.00	38	136.3	1.96
Ablabesmyia mallochii	3	10.8	0.16	0	0.0	0.00
Nanocladius distinctus	0	0.0	0.00	6	21.5	0.31
Chironomus	0	0.0	0.00	30	107.6	1.55
Dicrotendipes lucifer	3	10.8	0.16	223	800.1	11.51
Dicrotendipes simpsoni	0	0.0	0.00	302	1,083.6	15.59
Glyptotendipes	0	0.0	0.00	24	86.1	1.24
Polypedilum illinoense	0	0.0	0.00	12	43.1	0.62
Helisoma	0	0.0	0.00	65	233.2	3.36
Ferrissia	0	0.0	0.00	1	3.6	0.05
TOTAL BENTHOS	1,900	6,817.4	100.00	1,937	6,950.1	100.00

WATERWAY= N.S.C., LOCATION= TOUHY AVE.,
STATION= 36,
and DATE= 29JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	10	35.9	0.15	10	35.9	0.11
Turbellaria	10	35.9	0.15	10	35.9	0.11
Oligochaeta	4,940	17,725.2	74.96	4,220	15,141.7	44.85
Mooreobdella microstoma	10	35.9	0.15	0	0.0	0.00
Caecidotea	270	968.8	4.10	140	502.3	1.49
Hyalella azteca	0	0.0	0.00	160	574.1	1.70
Cricotopus bicinctus grp.	30	107.6	0.46	0	0.0	0.00
Cricotopus sylvestris grp.	90	322.9	1.37	140	502.3	1.49
Nanocladius distinctus	90	322.9	1.37	0	0.0	0.00
Dicrotendipes lucifer	280	1,004.7	4.25	0	0.0	0.00
Dicrotendipes simpsoni	560	2,009.3	8.50	670	2,404.0	7.12
Glyptotendipes	170	610.0	2.58	3,560	12,773.6	37.83
Parachironomus	90	322.9	1.37	380	1,363.5	4.04
Polypedilum illinoense	30	107.6	0.46	50	179.4	0.53
Paratanytarsus	10	35.9	0.15	0	0.0	0.00
Helisoma	0	0.0	0.00	70	251.2	0.74
TOTAL BENTHOS	6,590	23,645.5	100.00	9,410	33,763.9	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= POPLAR CR.,
 LOCATION= ROUTE 19,
 STATION= 90,
 and DATE= 30JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	1	3.6	0.14	1	3.6	0.35
Oligochaeta	5	17.9	0.69	105	376.7	36.46
Helobdella stagnalis	1	3.6	0.14	50	179.4	17.36
Erpobdella punctata punctata	0	0.0	0.00	2	7.2	0.69
Mooreobdella microstoma	2	7.2	0.28	0	0.0	0.00
Caecidotea	0	0.0	0.00	4	14.4	1.39
Hydracarina	1	3.6	0.14	0	0.0	0.00
Baetis intercalaris	144	516.7	19.92	0	0.0	0.00
Stenacron	1	3.6	0.14	0	0.0	0.00
Argia	0	0.0	0.00	1	3.6	0.35
Cheumatopsyche	101	362.4	13.97	0	0.0	0.00
Ceratopsyche morosa	43	154.3	5.95	1	3.6	0.35
Hydroptila	1	3.6	0.14	0	0.0	0.00
Dubiraphia	2	7.2	0.28	4	14.4	1.39
Macronychus glabratus	3	10.8	0.41	0	0.0	0.00
Stenelmis	3	10.8	0.41	2	7.2	0.69
Procladius	0	0.0	0.00	1	3.6	0.35
Ablabesmyia mallochii	0	0.0	0.00	2	7.2	0.69
Nilotanypus	4	14.4	0.55	0	0.0	0.00
Thienemannimyia grp.	34	122.0	4.70	1	3.6	0.35
Thienemanniella xena	11	39.5	1.52	0	0.0	0.00
Cricotopus bicinctus grp.	0	0.0	0.00	3	10.8	1.04
Cricotopus sylvestris grp.	0	0.0	0.00	1	3.6	0.35
Rheocricotopus robacki	197	706.9	27.25	0	0.0	0.00
Chironomus	0	0.0	0.00	1	3.6	0.35
Cryptochironomus	0	0.0	0.00	1	3.6	0.35
Cryptotendipes	4	14.4	0.55	4	14.4	1.39
Dicrotendipes modestus	0	0.0	0.00	2	7.2	0.69
Dicrotendipes neomodestus	0	0.0	0.00	2	7.2	0.69
Harnischia	0	0.0	0.00	2	7.2	0.69
Microtendipes	4	14.4	0.55	0	0.0	0.00
Paratendipes	0	0.0	0.00	63	226.0	21.88
Phaenopsectra obediens	0	0.0	0.00	1	3.6	0.35
Polypedilum fallax grp.	8	28.7	1.11	0	0.0	0.00
Polypedilum halterale grp.	0	0.0	0.00	1	3.6	0.35
Polypedilum illinoense	0	0.0	0.00	2	7.2	0.69
Polypedilum scalaenum grp.	4	14.4	0.55	1	3.6	0.35
Paratanytarsus	15	53.8	2.07	13	46.6	4.51
Rheotanytarsus	87	312.2	12.03	0	0.0	0.00
Simulium	29	104.1	4.01	0	0.0	0.00
Viviparidae	3	10.8	0.41	2	7.2	0.69
Amnicola	0	0.0	0.00	1	3.6	0.35
Pleurocera	2	7.2	0.28	0	0.0	0.00
Physa	1	3.6	0.14	9	32.3	3.13
Helisoma	0	0.0	0.00	1	3.6	0.35
Ferrissia	12	43.1	1.66	0	0.0	0.00
Musculium	0	0.0	0.00	2	7.2	0.69
Pisidium	0	0.0	0.00	2	7.2	0.69
TOTAL BENTHOS	723	2,594.2	100.00	288	1,033.4	100.00

WATERWAY= SALT CR.,
 LOCATION= ARLINGTON HTS. RD.,
 STATION= 80,
 and DATE= 01JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	130	466.5	1.74	1,105	3,964.8	28.70
Turbellaria	20	71.8	0.27	15	53.8	0.39
Oligochaeta	110	394.7	1.47	60	215.3	1.56
Cheumatopsyche	2,000	7,176.2	26.70	700	2,511.7	18.18
Ablabesmyia janta	50	179.4	0.67	20	71.8	0.52
Thienemannimyia grp.	0	0.0	0.00	20	71.8	0.52
Thienemanniella xena	260	932.9	3.47	75	269.1	1.95
Cricotopus bicinctus grp.	310	1,112.3	4.14	245	879.1	6.36
Cricotopus sylvestris grp.	160	574.1	2.14	110	394.7	2.86
Nanocladius distinctus	50	179.4	0.67	55	197.3	1.43
Dicrotendipes fumidus	210	753.5	2.80	110	394.7	2.86
Glyptotendipes	100	358.8	1.34	150	538.2	3.90
Polypedilum flavum	2,740	9,831.4	36.58	560	2,009.3	14.55
Polypedilum illinoense	980	3,516.3	13.08	470	1,686.4	12.21
Paratanytarsus	0	0.0	0.00	35	125.6	0.91
Rheotanytarsus	360	1,291.7	4.81	110	394.7	2.86
Hemerodromia	10	35.9	0.13	5	17.9	0.13
Ferrissia	0	0.0	0.00	5	17.9	0.13
TOTAL BENTHOS	7,490	26,874.8	100.00	3,850	13,814.1	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= SALT CR., LOCATION= BROOKFIELD AVE.,
STATION= 109,
and DATE= 11AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	4	14.4	1.14	--	--	--
Turbellaria	1	3.6	0.28	--	--	--
Oligochaeta	13	46.6	3.69	--	--	--
Caecidotea	1	3.6	0.28	--	--	--
Hydracarina	1	3.6	0.28	--	--	--
Baetis intercalaris	18	64.6	5.11	--	--	--
Stenacron	66	236.8	18.75	--	--	--
Tricorythodes	2	7.2	0.57	--	--	--
Hetaerina	1	3.6	0.28	--	--	--
Argia	2	7.2	0.57	--	--	--
Cyrnellus fraternus	1	3.6	0.28	--	--	--
Cheumatopsyche	41	147.1	11.65	--	--	--
Hydroptila	1	3.6	0.28	--	--	--
Stenelmis	2	7.2	0.57	--	--	--
Ablabesmyia mallochii	5	17.9	1.42	--	--	--
Labrundinia	3	10.8	0.85	--	--	--
Thienemannimyia grp.	21	75.3	5.97	--	--	--
Corynoneura lobata	6	21.5	1.70	--	--	--
Thienemanniella xena	3	10.8	0.85	--	--	--
Nanocladius distinctus	4	14.4	1.14	--	--	--
Rheocricotopus robacki	15	53.8	4.26	--	--	--
Polypedilum flavum	12	43.1	3.41	--	--	--
Polypedilum halterale grp.	1	3.6	0.28	--	--	--
Polypedilum scalaenum grp.	21	75.3	5.97	--	--	--
Stenochironomus	15	53.8	4.26	--	--	--
Rheotanytarsus	12	43.1	3.41	--	--	--
Ferrissia	80	287.0	22.73	--	--	--
TOTAL BENTHOS	352	1,263.0	100.00	--	--	--

WATERWAY= SALT CR., LOCATION= DEVON AVE.,
STATION= 18,
and DATE= 14JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	93	333.7	5.11	340	1,219.9	5.98
Turbellaria	463	1,661.3	25.45	690	2,475.8	12.14
Oligochaeta	90	322.9	4.95	360	1,291.7	6.33
Helobdella papillata	1	3.6	0.05	0	0.0	0.00
Helobdella triserialis	1	3.6	0.05	0	0.0	0.00
Baetis intercalaris	1	3.6	0.05	10	35.9	0.18
Maccaffertium terminatum	1	3.6	0.05	0	0.0	0.00
Tricorythodes	86	308.6	4.73	140	502.3	2.46
Argia	1	3.6	0.05	0	0.0	0.00
Cyrnellus fraternus	0	0.0	0.00	15	53.8	0.26
Cheumatopsyche	412	1,478.3	22.65	1,825	6,548.3	32.10
Hydropsyche betteni	1	3.6	0.05	0	0.0	0.00
Hydroptila	1	3.6	0.05	55	197.3	0.97
Dubiraphia	2	7.2	0.11	0	0.0	0.00
Stenelmis	21	75.3	1.15	0	0.0	0.00
Procladius	6	21.5	0.33	0	0.0	0.00
Ablabesmyia janta	78	279.9	4.29	190	681.7	3.34
Thienemannimyia grp.	90	322.9	4.95	150	538.2	2.64
Thienemanniella xena	6	21.5	0.33	130	466.5	2.29
Cricotopus bicinctus grp.	6	21.5	0.33	0	0.0	0.00
Cricotopus sylvestris grp.	6	21.5	0.33	0	0.0	0.00
Nanocladius distinctus	24	86.1	1.32	65	233.2	1.14
Rheocricotopus robacki	0	0.0	0.00	20	71.8	0.35
Chironomus	12	43.1	0.66	0	0.0	0.00
Cryptochironomus	24	86.1	1.32	0	0.0	0.00
Dicrotendipes neomodestus	36	129.2	1.98	150	538.2	2.64
Glyptotendipes	36	129.2	1.98	65	233.2	1.14
Parachironomus	0	0.0	0.00	20	71.8	0.35
Phaenopsectra obediens	78	279.9	4.29	0	0.0	0.00
Polypedilum flavum	108	387.5	5.94	1,120	4,018.7	19.70
Polypedilum halterale grp.	6	21.5	0.33	0	0.0	0.00
Polypedilum illinoense	24	86.1	1.32	45	161.5	0.79
Polypedilum scalaenum grp.	12	43.1	0.66	20	71.8	0.35
Stenochironomus	6	21.5	0.33	0	0.0	0.00
Stictochironomus	6	21.5	0.33	0	0.0	0.00
Cladotanytarsus mancus grp.	42	150.7	2.31	0	0.0	0.00
Paratanytarsus	0	0.0	0.00	20	71.8	0.35
Rheotanytarsus	0	0.0	0.00	110	394.7	1.93
Tanytarsus	12	43.1	0.66	0	0.0	0.00
Simulium	1	3.6	0.05	125	448.5	2.20
Hemerodromia	1	3.6	0.05	20	71.8	0.35
Helisoma	9	32.3	0.49	0	0.0	0.00
Ferrissia	14	50.2	0.77	0	0.0	0.00
Corbicula fluminea	2	7.2	0.11	0	0.0	0.00
TOTAL BENTHOS	1,819	6,526.7	100.00	5,685	20,398.3	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= SALT CR., LOCATION= HIGGINS RD.,
STATION= 79,
and DATE= 18JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	3	10.8	0.17	0	0.0	0.00
Turbellaria	40	143.5	2.31	140	502.3	2.79
Oligochaeta	557	1,998.6	32.22	270	968.8	5.38
Helobdella	0	0.0	0.00	20	71.8	0.40
Helobdella stagnalis	20	71.8	1.16	0	0.0	0.00
Mooreobdella microstoma	3	10.8	0.17	0	0.0	0.00
Caenis	3	10.8	0.17	0	0.0	0.00
Trepobates	0	0.0	0.00	30	107.6	0.60
Cynellus fraternus	43	154.3	2.49	290	1,040.5	5.78
Dineutus	0	0.0	0.00	10	35.9	0.20
Dubiraphia	3	10.8	0.17	10	35.9	0.20
Tanytus	20	71.8	1.16	0	0.0	0.00
Procladius	0	0.0	0.00	130	466.5	2.59
Chironomus	10	35.9	0.58	0	0.0	0.00
Cladopelma	10	35.9	0.58	0	0.0	0.00
Dicrotendipes modestus	0	0.0	0.00	90	322.9	1.79
Dicrotendipes simpsoni	437	1,568.0	25.27	1,340	4,808.0	26.69
Glyptotendipes	570	2,045.2	32.97	2,690	9,652.0	53.59
Polypedilum halterale grp.	10	35.9	0.58	0	0.0	0.00
TOTAL BENTHOS	1,729	6,203.8	100.00	5,020	18,012.2	100.00

WATERWAY= SALT CR., LOCATION= THORNDALE AVE.,
STATION= SC3,
and DATE= 14JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	15	53.8	0.77	32	114.8	1.57
Turbellaria	4	14.4	0.21	2	7.2	0.10
Oligochaeta	50	179.4	2.58	26	93.3	1.28
Caecidotea	28	100.5	1.44	1	3.6	0.05
Baetis intercalaris	0	0.0	0.00	3	10.8	0.15
Stenacron	1	3.6	0.05	0	0.0	0.00
Maccaffertium terminatum	3	10.8	0.15	3	10.8	0.15
Tricorythodes	175	627.9	9.02	35	125.6	1.72
Argia	1	3.6	0.05	0	0.0	0.00
Cynellus fraternus	2	7.2	0.10	10	35.9	0.49
Cheumatopsyche	833	2,988.9	42.94	989	3,548.6	48.50
Hydropsyche betteni	2	7.2	0.10	2	7.2	0.10
Hydropsyche orris	2	7.2	0.10	2	7.2	0.10
Hydropsyche simulans	2	7.2	0.10	4	14.4	0.20
Hydropsyche bidens	1	3.6	0.05	0	0.0	0.00
Ceratopsyche morosa	3	10.8	0.15	5	17.9	0.25
Hydroptila	4	14.4	0.21	4	14.4	0.20
Nectopsyche	6	21.5	0.31	1	3.6	0.05
Oecetis	2	7.2	0.10	0	0.0	0.00
Dubiraphia	7	25.1	0.36	3	10.8	0.15
Stenelmis	51	183.0	2.63	0	0.0	0.00
Ceratopogonidae	1	3.6	0.05	0	0.0	0.00
Procladius	15	53.8	0.77	0	0.0	0.00
Ablabesmyia janta	29	104.1	1.49	18	64.6	0.88
Thienemannimyia grp.	132	473.6	6.80	145	520.3	7.11
Thienemanniella xena	0	0.0	0.00	9	32.3	0.44
Cricotopus tremulus grp.	0	0.0	0.00	9	32.3	0.44
Cricotopus bicinctus grp.	15	53.8	0.77	9	32.3	0.44
Nanocladius distinctus	7	25.1	0.36	36	129.2	1.77
Nanocladius crassicornus/rectinervis	7	25.1	0.36	0	0.0	0.00
Rheocricotopus robacki	0	0.0	0.00	9	32.3	0.44
Chironomus	7	25.1	0.36	0	0.0	0.00
Cryptochironomus	15	53.8	0.77	0	0.0	0.00
Dicrotendipes neomodestus	88	315.8	4.54	54	193.8	2.65
Dicrotendipes lucifer	15	53.8	0.77	18	64.6	0.88
Glyptotendipes	51	183.0	2.63	45	161.5	2.21
Phaenopsectra obediens	7	25.1	0.36	0	0.0	0.00
Polypedilum flavum	265	950.8	13.66	535	1,919.6	26.24
Polypedilum halterale grp.	7	25.1	0.36	0	0.0	0.00
Polypedilum illinoense	29	104.1	1.49	0	0.0	0.00
Cladotanytarsus mancus grp.	7	25.1	0.36	0	0.0	0.00
Paratanytarsus	7	25.1	0.36	0	0.0	0.00
Rheotanytarsus	7	25.1	0.36	0	0.0	0.00
Tanytarsus	15	53.8	0.77	9	32.3	0.44
Tanytarsus glabrescens grp.	0	0.0	0.00	9	32.3	0.44
Simulium	3	10.8	0.15	2	7.2	0.10
Hemerodromia	6	21.5	0.31	0	0.0	0.00
Ferrissia	12	43.1	0.62	10	35.9	0.49
Corbicula fluminea	1	3.6	0.05	0	0.0	0.00
TOTAL BENTHOS	1,940	6,960.9	100.00	2,039	7,316.1	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= SALT CR.,
 LOCATION= WOLF RD.,
 STATION= 24,
 and DATE= 11AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	1	3.6	0.28	19	68.2	5.65
Oligochaeta	11	39.5	3.06	0	0.0	0.00
Helobdella	1	3.6	0.28	0	0.0	0.00
Hydracarina	1	3.6	0.28	0	0.0	0.00
Baetis intercalaris	1	3.6	0.28	1	3.6	0.30
Stenacron	300	1,076.4	83.57	121	434.2	36.01
Calopteryx	0	0.0	0.00	1	3.6	0.30
Argia	12	43.1	3.34	8	28.7	2.38
Enallagma	1	3.6	0.28	1	3.6	0.30
Cheumatopsyche	0	0.0	0.00	32	114.8	9.52
Procladius	2	7.2	0.56	0	0.0	0.00
Thienemannimyia grp.	3	10.8	0.84	13	46.6	3.87
Corynoneura lobata	0	0.0	0.00	2	7.2	0.60
Thienemanniella xena	0	0.0	0.00	3	10.8	0.89
Thienemanniella similis	5	17.9	1.39	3	10.8	0.89
Cricotopus sylvestris grp.	1	3.6	0.28	0	0.0	0.00
Nanocladius distinctus	3	10.8	0.84	2	7.2	0.60
Rheocricotopus robacki	3	10.8	0.84	3	10.8	0.89
Chironomus	0	0.0	0.00	5	17.9	1.49
Cryptochironomus	1	3.6	0.28	13	46.6	3.87
Phaenopsectra obediens	0	0.0	0.00	2	7.2	0.60
Polypedilum flavum	6	21.5	1.67	50	179.4	14.88
Polypedilum halterale grp.	0	0.0	0.00	55	197.3	16.37
Polypedilum illinoense	4	14.4	1.11	0	0.0	0.00
Polypedilum scalaenum grp.	1	3.6	0.28	0	0.0	0.00
Rheotanytarsus	0	0.0	0.00	2	7.2	0.60
Tanytarsus sepp	1	3.6	0.28	0	0.0	0.00
Pleurocera	1	3.6	0.28	0	0.0	0.00
TOTAL BENTHOS	359	1,288.1	100.00	336	1,205.6	100.00

WATERWAY= W.B. DUPAGE R.,
 LOCATION= LAKE ST.,
 STATION= 64,
 and DATE= 30JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	355	1,273.8	10.68	300	1,076.4	11.21
Oligochaeta	1,785	6,404.7	53.68	990	3,552.2	36.98
Helobdella stagnalis	0	0.0	0.00	2	7.2	0.07
Mooreobdella microstoma	0	0.0	0.00	1	3.6	0.04
Caecidotea	50	179.4	1.50	4	14.4	0.15
Baetis intercalaris	5	17.9	0.15	2	7.2	0.07
Maccaffertium terminatum	5	17.9	0.15	0	0.0	0.00
Enallagma	0	0.0	0.00	1	3.6	0.04
Cheumatopsyche	65	233.2	1.95	1	3.6	0.04
Hydroptila	0	0.0	0.00	1	3.6	0.04
Tanypus	0	0.0	0.00	14	50.2	0.52
Procladius	20	71.8	0.60	14	50.2	0.52
Ablabesmyia mallochii	10	35.9	0.30	14	50.2	0.52
Thienemanniella xena	30	107.6	0.90	14	50.2	0.52
Cricotopus bicinctus grp.	30	107.6	0.90	14	50.2	0.52
Cricotopus sylvestris grp.	10	35.9	0.30	0	0.0	0.00
Nanocladius distinctus	170	610.0	5.11	217	778.6	8.11
Chironomus	0	0.0	0.00	27	96.9	1.01
Cryptochironomus	0	0.0	0.00	14	50.2	0.52
Dicrotendipes modestus	30	107.6	0.90	0	0.0	0.00
Dicrotendipes neomodestus	10	35.9	0.30	0	0.0	0.00
Dicrotendipes simpsoni	40	143.5	1.20	108	387.5	4.03
Endochironomus nigricans	30	107.6	0.90	54	193.8	2.02
Glyptotendipes	310	1,112.3	9.32	474	1,700.8	17.71
Parachironomus	10	35.9	0.30	27	96.9	1.01
Phaenopsectra obediens	0	0.0	0.00	14	50.2	0.52
Polypedilum flavum	20	71.8	0.60	0	0.0	0.00
Polypedilum illinoense	150	538.2	4.51	203	728.4	7.58
Polypedilum scalaenum grp.	10	35.9	0.30	0	0.0	0.00
Micropsectra	45	161.5	1.35	14	50.2	0.52
Paratanytarsus	10	35.9	0.30	149	534.6	5.57
Tanytarsus sepp	10	35.9	0.30	0	0.0	0.00
Hemerodromia	0	0.0	0.00	3	10.8	0.11
Menetus	105	376.7	3.16	1	3.6	0.04
Ferrissia	10	35.9	0.30	0	0.0	0.00
TOTAL BENTHOS	3,325	11,930.4	100.00	2,677	9,605.3	100.00

APPENDIX C1 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - HESTER-DENDY DATA

WATERWAY= W.B. DUPAGE R.,
 LOCATION= SPRINGSGUTH RD.,
 STATION= 110,
 and DATE= 25JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	5	17.9	8.77	105	376.7	60.34
Helobdella stagnalis	30	107.6	52.63	58	208.1	33.33
Caecidotea	7	25.1	12.28	3	10.8	1.72
Collembola	0	0.0	0.00	3	10.8	1.72
Lestes	1	3.6	1.75	0	0.0	0.00
Chauliodes	0	0.0	0.00	1	3.6	0.57
Tanytus	0	0.0	0.00	1	3.6	0.57
Chironomus	12	43.1	21.05	0	0.0	0.00
Polypedilum illinoense	0	0.0	0.00	1	3.6	0.57
Physa	0	0.0	0.00	2	7.2	1.15
Pisidium	2	7.2	3.51	0	0.0	0.00
TOTAL BENTHOS	57	204.5	100.00	174	624.3	100.00

WATERWAY= W.B. DUPAGE R.,
 LOCATION= WALNUT AVE.,
 STATION= 89,
 and DATE= 25JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	525	1,883.7	58.53	555	1,991.4	42.27
Oligochaeta	45	161.5	5.02	304	1,090.8	23.15
Helobdella stagnalis	0	0.0	0.00	9	32.3	0.69
Erpobdella punctata punctata	2	7.2	0.22	0	0.0	0.00
Mooreobdella microstoma	4	14.4	0.45	2	7.2	0.15
Caecidotea	0	0.0	0.00	7	25.1	0.53
Argia	0	0.0	0.00	1	3.6	0.08
Enallagma	0	0.0	0.00	1	3.6	0.08
Aeshna	0	0.0	0.00	1	3.6	0.08
Peltodytes	2	7.2	0.22	0	0.0	0.00
Procladius	0	0.0	0.00	5	17.9	0.38
Thienemannimyia grp.	3	10.8	0.33	0	0.0	0.00
Thienemanniella xena	0	0.0	0.00	5	17.9	0.38
Cricotopus bicinctus grp.	24	86.1	2.68	9	32.3	0.69
Cricotopus sylvestris grp.	27	96.9	3.01	23	82.5	1.75
Nanocladius crassicornus/rectinervis	0	0.0	0.00	9	32.3	0.69
Chironomus	72	258.3	8.03	105	376.7	8.00
Cryptochironomus	0	0.0	0.00	5	17.9	0.38
Dicrotendipes modestus	0	0.0	0.00	5	17.9	0.38
Dicrotendipes neomodestus	14	50.2	1.56	36	129.2	2.74
Dicrotendipes fumidus	10	35.9	1.11	0	0.0	0.00
Dicrotendipes simpsoni	0	0.0	0.00	5	17.9	0.38
Dicrotendipes nervosus	0	0.0	0.00	5	17.9	0.38
Endochironomus nigricans	0	0.0	0.00	9	32.3	0.69
Glyptotendipes	0	0.0	0.00	14	50.2	1.07
Paratendipes	3	10.8	0.33	5	17.9	0.38
Phaenopsectra flavipes	0	0.0	0.00	5	17.9	0.38
Polypedilum flavum	7	25.1	0.78	9	32.3	0.69
Polypedilum halterale grp.	0	0.0	0.00	9	32.3	0.69
Polypedilum illinoense	117	419.8	13.04	82	294.2	6.25
Micropsectra	17	61.0	1.90	27	96.9	2.06
Paratanytarsus	21	75.3	2.34	59	211.7	4.49
Menetus	4	14.4	0.45	0	0.0	0.00
Ferrissia	0	0.0	0.00	2	7.2	0.15
TOTAL BENTHOS	897	3,218.5	100.00	1,313	4,711.2	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= BUFFALO CR.,
 LOCATION= LAKE COOK RD.,
 STATION= 12,
 and DATE= 17JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	6	86.1	0.61	0	0.0	0.00
Turbellaria	4	57.4	0.41	1	14.4	0.33
Oligochaeta	268	3,846.7	27.40	67	961.7	22.41
Orconectes	0	0.0	0.00	1	14.4	0.33
Baetis intercalaris	0	0.0	0.00	1	14.4	0.33
Caenis	0	0.0	0.00	1	14.4	0.33
Cheumatopsyche	12	172.2	1.23	1	14.4	0.33
Dubiraphia	2	28.7	0.20	0	0.0	0.00
Stenelmis	2	28.7	0.20	0	0.0	0.00
Procladius	0	0.0	0.00	2	28.7	0.67
Chironomus	0	0.0	0.00	22	315.8	7.36
Cryptochironomus	6	86.1	0.61	7	100.5	2.34
Cryptotendipes	0	0.0	0.00	2	28.7	0.67
Dicrotendipes neomodestus	0	0.0	0.00	7	100.5	2.34
Paratendipes	0	0.0	0.00	2	28.7	0.67
Phaenopsectra obediens	0	0.0	0.00	2	28.7	0.67
Polypedilum scalaenum grp.	0	0.0	0.00	2	28.7	0.67
Stictochironomus	614	8,812.9	62.78	107	1,535.8	35.79
Cladotanytarsus mancus grp.	0	0.0	0.00	10	143.5	3.34
Paratanytarsus	0	0.0	0.00	3	43.1	1.00
Tanytarsus glabrescens grp.	0	0.0	0.00	2	28.7	0.67
Physa	0	0.0	0.00	1	14.4	0.33
Corbicula fluminea	28	401.9	2.86	12	172.2	4.01
Sphaerium	14	200.9	1.43	2	28.7	0.67
Musculium	8	114.8	0.82	14	200.9	4.68
Pisidium	14	200.9	1.43	29	416.2	9.70
Elliptio dilatata	0	0.0	0.00	1	14.4	0.33
TOTAL BENTHOS	978	14,037.5	100.00	299	4,291.6	100.00

WATERWAY= C.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 59,
 and DATE= 06AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	0	0.0	0.00	1	14.4	0.23
Oligochaeta	388	5,569.1	74.47	363	5,210.2	85.01
Procladius	119	1,708.0	22.84	54	775.1	12.65
Clinotanyppus	1	14.4	0.19	0	0.0	0.00
Cricotopus bicinctus grp.	1	14.4	0.19	0	0.0	0.00
Nanocladius distinctus	4	57.4	0.77	0	0.0	0.00
Cryptochironomus	3	43.1	0.58	6	86.1	1.41
Dicrotendipes lucifer	5	71.8	0.96	0	0.0	0.00
Corbicula fluminea	0	0.0	0.00	3	43.1	0.70
TOTAL BENTHOS	521	7,478.1	100.00	427	6,128.8	100.00

WATERWAY= C.S.S.C.,
 LOCATION= CICERO AVE.,
 STATION= 75,
 and DATE= 31JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	54	775.1	96.43	604	8,669.4	94.08
Helobdella stagnalis	0	0.0	0.00	2	28.7	0.31
Hyalella azteca	1	14.4	1.79	2	28.7	0.31
Procladius	1	14.4	1.79	2	28.7	0.31
Dicrotendipes simpsoni	0	0.0	0.00	2	28.7	0.31
Corbicula fluminea	0	0.0	0.00	30	430.6	4.67
TOTAL BENTHOS	56	803.8	100.00	642	9,214.8	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= C.S.S.C.,
 LOCATION= HARLEM AVE.,
 STATION= 41,
 and DATE= 31JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	6	86.1	2.83
Turbellaria	0	0.0	0.00	81	1,162.6	38.21
Oligochaeta	455	6,530.7	97.22	97	1,392.3	45.75
Hyalella azteca	0	0.0	0.00	1	14.4	0.47
Cyrenellus fraternus	0	0.0	0.00	1	14.4	0.47
Hydropsyche orris	1	14.4	0.21	0	0.0	0.00
Procladius	3	43.1	0.64	0	0.0	0.00
Chironomus	9	129.2	1.92	0	0.0	0.00
Dicrotendipes lucifer	0	0.0	0.00	5	71.8	2.36
Dicrotendipes simpsoni	0	0.0	0.00	20	287.1	9.43
Musculium	0	0.0	0.00	1	14.4	0.47
TOTAL BENTHOS	468	6,717.3	100.00	212	3,042.9	100.00

WATERWAY= C.S.S.C.,
 LOCATION= LOCKPORT,
 STATION= 92,
 and DATE= 30JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	193	2,770.2	97.47	1,016	14,582.9	70.90
Hyalella azteca	0	0.0	0.00	111	1,593.2	7.75
Gammarus	0	0.0	0.00	38	545.4	2.65
Enallagma	0	0.0	0.00	1	14.4	0.07
Cyrenellus fraternus	0	0.0	0.00	1	14.4	0.07
Hydroptila	0	0.0	0.00	3	43.1	0.21
Procladius	0	0.0	0.00	4	57.4	0.28
Ablabesmyia janta	0	0.0	0.00	16	229.7	1.12
Cricotopus bicinctus grp.	0	0.0	0.00	6	86.1	0.42
Cricotopus sylvestris grp.	0	0.0	0.00	6	86.1	0.42
Nanocladius distinctus	0	0.0	0.00	18	258.4	1.26
Chironomus	0	0.0	0.00	49	703.3	3.42
Cryptochironomus	1	14.4	0.51	12	172.2	0.84
Dicrotendipes fumidus	0	0.0	0.00	4	57.4	0.28
Dicrotendipes lucifer	0	0.0	0.00	104	1,492.7	7.26
Dicrotendipes simpsoni	0	0.0	0.00	6	86.1	0.42
Parachironomus	0	0.0	0.00	2	28.7	0.14
Polypedilum illinoense	0	0.0	0.00	4	57.4	0.28
Physa	0	0.0	0.00	4	57.4	0.28
Corbicula fluminea	4	57.4	2.02	28	401.9	1.95
TOTAL BENTHOS	198	2,841.9	100.00	1,433	20,568.2	100.00

WATERWAY= CALUMET R.,
 LOCATION= 130TH ST.,
 STATION= 55,
 and DATE= 07AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Plumatella	1	14.4	0.19	0	0.0	0.00
Oligochaeta	23	330.1	4.32	26	373.2	30.23
Mooreobdella microstoma	1	14.4	0.19	0	0.0	0.00
Echinogammarus ischusa	3	43.1	0.56	0	0.0	0.00
Hydracarina	0	0.0	0.00	1	14.4	1.16
Procladius	0	0.0	0.00	3	43.1	3.49
Coelotanytus	1	14.4	0.19	0	0.0	0.00
Cricotopus tremulus grp.	0	0.0	0.00	2	28.7	2.33
Cricotopus bicinctus grp.	0	0.0	0.00	10	143.5	11.63
Chironomus	0	0.0	0.00	1	14.4	1.16
Cryptotendipes	3	43.1	0.56	3	43.1	3.49
Dicrotendipes lucifer	1	14.4	0.19	3	43.1	3.49
Microchironomus	1	14.4	0.19	0	0.0	0.00
Parachironomus	0	0.0	0.00	2	28.7	2.33
Polypedilum halterale grp.	0	0.0	0.00	11	157.9	12.79
Polypedilum scalaenum grp.	0	0.0	0.00	8	114.8	9.30
Paratanytarsus	0	0.0	0.00	13	186.6	15.12
Corbicula fluminea	0	0.0	0.00	3	43.1	3.49
Dreissena polymorpha	356	5,109.8	66.79	0	0.0	0.00
Dreissena bugensis	143	2,052.5	26.83	0	0.0	0.00
TOTAL BENTHOS	533	7,650.3	100.00	86	1,234.4	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= DES PLAINES R., LOCATION= BELMONT AVE.,
STATION= 19,
and DATE= 28JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	17	244.0	11.04	472	6,774.7	97.32
Mooreobdella microstoma	2	28.7	1.30	1	14.4	0.21
Caecidotea	7	100.5	4.55	0	0.0	0.00
Gammarus	70	1,004.7	45.45	0	0.0	0.00
Orconectes	1	14.4	0.65	0	0.0	0.00
Maccaffertium terminatum	2	28.7	1.30	0	0.0	0.00
Stenelmis	11	157.9	7.14	0	0.0	0.00
Procladius	0	0.0	0.00	12	172.2	2.47
Thienemannimyia grp.	5	71.8	3.25	0	0.0	0.00
Thienemanniella xena	1	14.4	0.65	0	0.0	0.00
Nanocladius distinctus	1	14.4	0.65	0	0.0	0.00
Cryptochironomus	1	14.4	0.65	0	0.0	0.00
Polypedilum scalaenum grp.	16	229.7	10.39	0	0.0	0.00
Rheotanytarsus	1	14.4	0.65	0	0.0	0.00
Corbicula fluminea	17	244.0	11.04	0	0.0	0.00
Sphaerium	2	28.7	1.30	0	0.0	0.00
TOTAL BENTHOS	154	2,210.4	100.00	485	6,961.3	100.00

WATERWAY= DES PLAINES R., LOCATION= LAKE COOK RD.,
STATION= 13,
and DATE= 17JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	14	200.9	10.69	326	4,679.2	92.09
Hyalabella azteca	3	43.1	2.29	0	0.0	0.00
Gomphidae	0	0.0	0.00	1	14.4	0.28
Cheumatopsyche	5	71.8	3.82	3	43.1	0.85
Hydropsyche simulans	9	129.2	6.87	1	14.4	0.28
Stenelmis	1	14.4	0.76	0	0.0	0.00
Procladius	0	0.0	0.00	2	28.7	0.56
Thienemannimyia grp.	0	0.0	0.00	1	14.4	0.28
Thienemanniella xena	1	14.4	0.76	0	0.0	0.00
Chironomus	0	0.0	0.00	1	14.4	0.28
Cryptochironomus	11	157.9	8.40	4	57.4	1.13
Microtendipes	4	57.4	3.05	0	0.0	0.00
Paracladopelma	2	28.7	1.53	0	0.0	0.00
Phaenopsectra flavipes	0	0.0	0.00	1	14.4	0.28
Polypedilum flavum	2	28.7	1.53	0	0.0	0.00
Polypedilum halterale grp.	24	344.5	18.32	4	57.4	1.13
Polypedilum scalaenum grp.	20	287.1	15.27	0	0.0	0.00
Saetheria	5	71.8	3.82	0	0.0	0.00
Cladotanytarsus vanderwulpi grp.	25	358.8	19.08	0	0.0	0.00
Corbicula fluminea	5	71.8	3.82	3	43.1	0.85
Pisidium	0	0.0	0.00	7	100.5	1.98
TOTAL BENTHOS	131	1,880.3	100.00	354	5,081.1	100.00

WATERWAY= DES PLAINES R., LOCATION= MATERIAL SERVICE RD., STATION= 91,
and DATE= 30JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	91	1,306.1	27.83	120	1,722.4	60.30
Gammarus	13	186.6	3.98	25	358.8	12.56
Orconectes rusticus	0	0.0	0.00	1	14.4	0.50
Tricorythodes	1	14.4	0.31	0	0.0	0.00
Corixidae	0	0.0	0.00	3	43.1	1.51
Cheumatopsyche	11	157.9	3.36	1	14.4	0.50
Hydropsyche bidens	1	14.4	0.31	0	0.0	0.00
Stenelmis	7	100.5	2.14	0	0.0	0.00
Procladius	2	28.7	0.61	30	430.6	15.08
Cricotopus bicinctus grp.	14	200.9	4.28	1	14.4	0.50
Chironomus	14	200.9	4.28	7	100.5	3.52
Cryptochironomus	4	57.4	1.22	0	0.0	0.00
Dicrotendipes neomodestus	16	229.7	4.89	3	43.1	1.51
Glyptotendipes	4	57.4	1.22	0	0.0	0.00
Harnischia	0	0.0	0.00	1	14.4	0.50
Paratendipes	0	0.0	0.00	2	28.7	1.01
Polypedilum flavum	117	1,679.3	35.78	0	0.0	0.00
Polypedilum halterale grp.	0	0.0	0.00	2	28.7	1.01
Polypedilum illinoense	12	172.2	3.67	0	0.0	0.00
Polypedilum scalaenum grp.	6	86.1	1.83	0	0.0	0.00
Rheotanytarsus	4	57.4	1.22	1	14.4	0.50
Physa	2	28.7	0.61	0	0.0	0.00
Corbicula fluminea	5	71.8	1.53	1	14.4	0.50
Sphaerium	3	43.1	0.92	1	14.4	0.50
TOTAL BENTHOS	327	4,693.5	100.00	199	2,856.3	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= DES PLAINES R., LOCATION= OAKTON ST., STATION= 17,
and DATE= 22JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	116	1,665.0	21.60	473	6,789.1	93.29
Mooreobdella microstoma	0	0.0	0.00	3	43.1	0.59
Hyalella azteca	0	0.0	0.00	1	14.4	0.20
Gammarus	13	186.6	2.42	0	0.0	0.00
Maccaffertium terminatum	1	14.4	0.19	0	0.0	0.00
Argiogomphus	0	0.0	0.00	1	14.4	0.20
Cheumatopsyche	7	100.5	1.30	0	0.0	0.00
Stenelmis	3	43.1	0.56	0	0.0	0.00
Procladius	0	0.0	0.00	9	129.2	1.78
Thienemannimyia grp.	12	172.2	2.23	0	0.0	0.00
Chironomus	0	0.0	0.00	17	244.0	3.35
Cryptochironomus	20	287.1	3.72	1	14.4	0.20
Polypedilum flavum	4	57.4	0.74	0	0.0	0.00
Polypedilum halterale grp.	86	1,234.4	16.01	0	0.0	0.00
Polypedilum scalaenum grp.	244	3,502.2	45.44	1	14.4	0.20
Saetheria	4	57.4	0.74	0	0.0	0.00
Cladotanytarsus vanderwulpi grp.	16	229.7	2.98	0	0.0	0.00
Amnicola	0	0.0	0.00	1	14.4	0.20
Corbicula fluminea	11	157.9	2.05	0	0.0	0.00
TOTAL BENTHOS	537	7,707.7	100.00	507	7,277.1	100.00

WATERWAY= DES PLAINES R., LOCATION= OGDEN AVE., STATION= 22,
and DATE= 13AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	159	2,282.2	16.00	0	0.0	0.00
Oligochaeta	57	818.1	5.73	171	2,454.4	50.74
Helobdella stagnalis	3	43.1	0.30	1	14.4	0.30
Caecidotea	2	28.7	0.20	0	0.0	0.00
Gammarus	11	157.9	1.11	5	71.8	1.48
Hydracarina	1	14.4	0.10	0	0.0	0.00
Tricorythodes	55	789.4	5.53	0	0.0	0.00
Cheumatopsyche	119	1,708.0	11.97	8	114.8	2.37
Stenelmis	2	28.7	0.20	0	0.0	0.00
Ablabesmyia mallochi	9	129.2	0.91	0	0.0	0.00
Labrundinia	7	100.5	0.70	0	0.0	0.00
Thienemannimyia grp.	9	129.2	0.91	1	14.4	0.30
Cryptochironomus	4	57.4	0.40	20	287.1	5.93
Parachironomus	1	14.4	0.10	0	0.0	0.00
Polypedilum flavum	10	143.5	1.01	3	43.1	0.89
Polypedilum scalaenum grp.	57	818.1	5.73	104	1,492.7	30.86
Cladotanytarsus vanderwulpi grp.	44	631.5	4.43	3	43.1	0.89
Tanytarsus	0	0.0	0.00	1	14.4	0.30
Amnicola	0	0.0	0.00	1	14.4	0.30
Ferrissia	1	14.4	0.10	0	0.0	0.00
Corbicula fluminea	443	6,358.5	44.57	19	272.7	5.64
TOTAL BENTHOS	994	14,267.1	100.00	337	4,837.1	100.00

WATERWAY= DES PLAINES R., LOCATION= ROOSEVELT RD., STATION= 20,
and DATE= 23JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	60	861.2	43.48	1,088	15,616.4	99.73
Mooreobdella microstoma	3	43.1	2.17	0	0.0	0.00
Caecidotea	8	114.8	5.80	0	0.0	0.00
Gammarus	5	71.8	3.62	0	0.0	0.00
Hydracarina	0	0.0	0.00	1	14.4	0.09
Stenelmis	2	28.7	1.45	0	0.0	0.00
Procladius	0	0.0	0.00	1	14.4	0.09
Ablabesmyia mallochi	1	14.4	0.72	0	0.0	0.00
Labrundinia	1	14.4	0.72	0	0.0	0.00
Thienemannimyia grp.	2	28.7	1.45	1	14.4	0.09
Thienemanniella xena	1	14.4	0.72	0	0.0	0.00
Nanocladius distinctus	10	143.5	7.25	0	0.0	0.00
Cryptochironomus	12	172.2	8.70	0	0.0	0.00
Polypedilum flavum	1	14.4	0.72	0	0.0	0.00
Polypedilum halterale grp.	1	14.4	0.72	0	0.0	0.00
Polypedilum scalaenum grp.	13	186.6	9.42	0	0.0	0.00
Cladotanytarsus vanderwulpi grp.	2	28.7	1.45	0	0.0	0.00
Ferrissia	1	14.4	0.72	0	0.0	0.00
Corbicula fluminea	12	172.2	8.70	0	0.0	0.00
Sphaerium	3	43.1	2.17	0	0.0	0.00
TOTAL BENTHOS	138	1,980.8	100.00	1,091	15,659.4	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= DES PLAINES R.,
 LOCATION= STEPHEN ST.,
 STATION= 29,
 and DATE= 12AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	--	--	--	246	3,530.9	76.64
Caenis	--	--	--	1	14.4	0.31
Procladius	--	--	--	58	832.5	18.07
Cryptochironomus	--	--	--	2	28.7	0.62
Polypedilum halterale grp.	--	--	--	12	172.2	3.74
Polypedilum scalaenum grp.	--	--	--	2	28.7	0.62
TOTAL BENTHOS	--	--	--	321	4,607.4	100.00

WATERWAY= DES PLAINES R.,
 LOCATION= WILLOW SPRINGS RD.,
 STATION= 23,
 and DATE= 12AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	262	3,760.6	92.25	275	3,947.1	94.50
Procladius	9	129.2	3.17	16	229.7	5.50
Chironomus	5	71.8	1.76	0	0.0	0.00
Cryptochironomus	5	71.8	1.76	0	0.0	0.00
Polypedilum halterale grp.	3	43.1	1.06	0	0.0	0.00
TOTAL BENTHOS	284	4,076.3	100.00	291	4,176.8	100.00

WATERWAY= HIGGINS CR.,
 LOCATION= ELMHURST RD.,
 STATION= 77,
 and DATE= 24JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	--	--	--	2	28.7	0.87
Oligochaeta	--	--	--	164	2,353.9	71.00
Mooreobdella microstoma	--	--	--	2	28.7	0.87
Caecidotea	--	--	--	1	14.4	0.43
Orconectes	--	--	--	1	14.4	0.43
Corixidae	--	--	--	1	14.4	0.43
Procladius	--	--	--	11	157.9	4.76
Cricotopus bicinctus grp.	--	--	--	1	14.4	0.43
Chironomus	--	--	--	37	531.1	16.02
Polypedilum illinoense	--	--	--	1	14.4	0.43
Amnicola	--	--	--	2	28.7	0.87
Physa	--	--	--	8	114.8	3.46
TOTAL BENTHOS	--	--	--	231	3,315.6	100.00

WATERWAY= HIGGINS CR.,
 LOCATION= WILLE RD.,
 STATION= 78,
 and DATE= 24JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	0	0.0	0.00	12	172.2	0.13
Oligochaeta	5,638	80,923.7	56.68	2,956	42,428.3	31.07
Haemopis	1	14.4	0.01	0	0.0	0.00
Mooreobdella microstoma	5	71.8	0.05	1	14.4	0.01
Caecidotea	1,089	15,630.7	10.95	505	7,248.4	5.31
Cheumatopsyche	0	0.0	0.00	1	14.4	0.01
Thienemannimyia grp.	0	0.0	0.00	124	1,779.8	1.30
Cricotopus bicinctus grp.	2,590	37,175.0	26.04	5,415	77,723.0	56.92
Cricotopus trifascia grp.	31	445.0	0.31	0	0.0	0.00
Cricotopus sylvestris grp.	437	6,272.4	4.39	311	4,463.9	3.27
Nanocladius distinctus	125	1,794.2	1.26	187	2,684.1	1.97
Polypedilum flavum	31	445.0	0.31	0	0.0	0.00
Simulium	0	0.0	0.00	1	14.4	0.01
TOTAL BENTHOS	9,947	142,772.0	100.00	9,513	136,542.6	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= L.C.R., LOCATION= HALSTED ST., STATION= 76,
and DATE= 06AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	5,310	76,215.9	97.43	1,717	24,644.6	89.75
Mooreobdella microstoma	10	143.5	0.18	11	157.9	0.58
Gammarus	0	0.0	0.00	3	43.1	0.16
Procladius	100	1,435.3	1.83	48	689.0	2.51
Cricotopus bicinctus grp.	0	0.0	0.00	36	516.7	1.88
Cricotopus sylvestris grp.	0	0.0	0.00	1	14.4	0.05
Nanocladius distinctus	0	0.0	0.00	4	57.4	0.21
Chironomus	20	287.1	0.37	1	14.4	0.05
Dicrotendipes lucifer	0	0.0	0.00	25	358.8	1.31
Dicrotendipes simpsoni	0	0.0	0.00	6	86.1	0.31
Glyptotendipes	0	0.0	0.00	1	14.4	0.05
Polypedilum illinoense	0	0.0	0.00	1	14.4	0.05
Stenochironomus	0	0.0	0.00	1	14.4	0.05
Helisoma	0	0.0	0.00	1	14.4	0.05
Ferrissia	0	0.0	0.00	42	602.8	2.20
Corbicula fluminea	10	143.5	0.18	1	14.4	0.05
Musculium	0	0.0	0.00	3	43.1	0.16
Dreissena polymorpha	0	0.0	0.00	11	157.9	0.58
TOTAL BENTHOS	5,450	78,225.3	100.00	1,913	27,457.8	100.00

WATERWAY= N.B.C.R., LOCATION= ALBANY AVE., STATION= 96,
and DATE= 08AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	0	0.0	0.00	3	43.1	2.14
Oligochaeta	111	1,593.2	51.39	114	1,636.3	81.43
Caecidotea	0	0.0	0.00	2	28.7	1.43
Gammarus	0	0.0	0.00	4	57.4	2.86
Ceratopsyche morosa	1	14.4	0.46	0	0.0	0.00
Cryptochironomus	1	14.4	0.46	0	0.0	0.00
Glyptotendipes	0	0.0	0.00	3	43.1	2.14
Polypedilum halterale grp.	1	14.4	0.46	0	0.0	0.00
Polypedilum illinoense	2	28.7	0.93	0	0.0	0.00
Polypedilum scalaenum grp.	77	1,105.2	35.65	0	0.0	0.00
Paratanytarsus	2	28.7	0.93	1	14.4	0.71
Amnicola	0	0.0	0.00	4	57.4	2.86
Ferrissia	0	0.0	0.00	2	28.7	1.43
Corbicula fluminea	13	186.6	6.02	0	0.0	0.00
Musculium	7	100.5	3.24	0	0.0	0.00
Pisidium	1	14.4	0.46	0	0.0	0.00
Dreissena bugensis	0	0.0	0.00	7	100.5	5.00
TOTAL BENTHOS	216	3,100.3	100.00	140	2,009.5	100.00

WATERWAY= N.B.C.R., LOCATION= GRAND AVE., STATION= 46,
and DATE= 29JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	270	3,875.4	99.63	1,533	22,003.6	99.42
Procladius	1	14.4	0.37	3	43.1	0.19
Dicrotendipes lucifer	0	0.0	0.00	3	43.1	0.19
Dicrotendipes simpsoni	0	0.0	0.00	3	43.1	0.19
TOTAL BENTHOS	271	3,889.7	100.00	1,542	22,132.7	100.00

WATERWAY= N.S.C., LOCATION= TOUHY AVE., STATION= 36,
and DATE= 29JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Hydra	0	0.0	0.00	1	14.4	0.18
Oligochaeta	1,105	15,860.4	94.20	486	6,975.7	89.34
Caecidotea	0	0.0	0.00	10	143.5	1.84
Nanocladius distinctus	0	0.0	0.00	1	14.4	0.18
Chironomus	66	947.3	5.63	25	358.8	4.60
Cladopelma	1	14.4	0.09	1	14.4	0.18
Dicrotendipes neomodestus	0	0.0	0.00	3	43.1	0.55
Dicrotendipes lucifer	0	0.0	0.00	1	14.4	0.18
Dicrotendipes simpsoni	0	0.0	0.00	2	28.7	0.37
Glyptotendipes	0	0.0	0.00	8	114.8	1.47
Parachironomus	0	0.0	0.00	6	86.1	1.10
Polypedilum scalaenum grp.	1	14.4	0.09	0	0.0	0.00
TOTAL BENTHOS	1,173	16,836.4	100.00	544	7,808.2	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= POPLAR CR.,
 LOCATION= ROUTE 19,
 STATION= 90,
 and DATE= 30JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	26	373.2	25.74	609	8,741.1	85.29
Helobdella	1	14.4	0.99	0	0.0	0.00
Helobdella stagnalis	5	71.8	4.95	31	445.0	4.34
Mooreobdella microstoma	0	0.0	0.00	16	229.7	2.24
Cheumatopsyche	1	14.4	0.99	0	0.0	0.00
Dubiraphia	0	0.0	0.00	4	57.4	0.56
Ectopria	1	14.4	0.99	0	0.0	0.00
Procladius	0	0.0	0.00	1	14.4	0.14
Ablabesmyia mallochii	1	14.4	0.99	0	0.0	0.00
Thienemannimyia grp.	4	57.4	3.96	0	0.0	0.00
Chironomus	1	14.4	0.99	2	28.7	0.28
Cryptochironomus	4	57.4	3.96	10	143.5	1.40
Cryptotendipes	3	43.1	2.97	3	43.1	0.42
Dicrotendipes modestus	0	0.0	0.00	1	14.4	0.14
Dicrotendipes neomodestus	13	186.6	12.87	0	0.0	0.00
Harnischia	0	0.0	0.00	2	28.7	0.28
Microtendipes	10	143.5	9.90	0	0.0	0.00
Paralauterborniella nigrohalteralis	0	0.0	0.00	2	28.7	0.28
Paratendipes	3	43.1	2.97	5	71.8	0.70
Phaenopsectra obediens	1	14.4	0.99	1	14.4	0.14
Polypedilum illinoense	1	14.4	0.99	0	0.0	0.00
Polypedilum scalaenum grp.	14	200.9	13.86	11	157.9	1.54
Cladotanytarsus mancus grp.	2	28.7	1.98	0	0.0	0.00
Paratanytarsus	4	57.4	3.96	2	28.7	0.28
Viviparidae	1	14.4	0.99	0	0.0	0.00
Pleurocera	0	0.0	0.00	6	86.1	0.84
Physa	0	0.0	0.00	1	14.4	0.14
Corbicula fluminea	0	0.0	0.00	1	14.4	0.14
Musculium	0	0.0	0.00	2	28.7	0.28
Pisidium	5	71.8	4.95	4	57.4	0.56
TOTAL BENTHOS	101	1,449.7	100.00	714	10,248.2	100.00

WATERWAY= SALT CR.,
 LOCATION= ARLINGTON HTS. RD.,
 STATION= 80,
 and DATE= 01JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	55	789.4	9.70	97	1,392.3	13.02
Hyalabella azteca	0	0.0	0.00	2	28.7	0.27
Tricorythodes	0	0.0	0.00	1	14.4	0.13
Cheumatopsyche	2	28.7	0.35	2	28.7	0.27
Oecetis	0	0.0	0.00	3	43.1	0.40
Procladius	0	0.0	0.00	6	86.1	0.81
Thienemannimyia grp.	0	0.0	0.00	6	86.1	0.81
Cricotopus bicinctus grp.	0	0.0	0.00	6	86.1	0.81
Cricotopus sylvestris grp.	5	71.8	0.88	6	86.1	0.81
Cryptochironomus	143	2,052.5	25.22	98	1,406.6	13.15
Dicrotendipes neomodestus	0	0.0	0.00	12	172.2	1.61
Dicrotendipes fumidus	20	287.1	3.53	74	1,062.1	9.93
Glyptotendipes	5	71.8	0.88	6	86.1	0.81
Polypedilum flavum	5	71.8	0.88	12	172.2	1.61
Polypedilum halterale grp.	5	71.8	0.88	43	617.2	5.77
Polypedilum illinoense	0	0.0	0.00	6	86.1	0.81
Polypedilum scalaenum grp.	36	516.7	6.35	12	172.2	1.61
Pseudochironomus	26	373.2	4.59	252	3,617.0	33.83
Stictochironomus	0	0.0	0.00	6	86.1	0.81
Cladotanytarsus mancus grp.	260	3,731.8	45.86	92	1,320.5	12.35
Hemerodromia	0	0.0	0.00	1	14.4	0.13
Corbicula fluminea	5	71.8	0.88	2	28.7	0.27
TOTAL BENTHOS	567	8,138.3	100.00	745	10,693.2	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= SALT CR., LOCATION= BROOKFIELD AVE., STATION= 109,
and DATE= 11AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	14	200.9	26.92	2,227	31,964.7	97.59
Baetis intercalaris	2	28.7	3.85	0	0.0	0.00
Procladius	0	0.0	0.00	8	114.8	0.35
Ablabesmyia mallochi	1	14.4	1.92	0	0.0	0.00
Thienemannimyia grp.	1	14.4	1.92	0	0.0	0.00
Chironomus	0	0.0	0.00	10	143.5	0.44
Cryptochironomus	1	14.4	1.92	9	129.2	0.39
Dicrotendipes neomodestus	1	14.4	1.92	0	0.0	0.00
Harnischia	0	0.0	0.00	3	43.1	0.13
Polypedilum flavum	2	28.7	3.85	0	0.0	0.00
Polypedilum halterale grp.	1	14.4	1.92	24	344.5	1.05
Polypedilum scalaenum grp.	20	287.1	38.46	0	0.0	0.00
Cladotanytarsus vanderwulpi grp.	3	43.1	5.77	0	0.0	0.00
Tanytarsus sepp	0	0.0	0.00	1	14.4	0.04
Corbicula fluminea	6	86.1	11.54	0	0.0	0.00
TOTAL BENTHOS	52	746.4	100.00	2,282	32,754.2	100.00

WATERWAY= SALT CR., LOCATION= DEVON AVE., STATION= 18,
and DATE= 14JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	18	258.4	5.49	475	6,817.8	83.77
Tricorythodes	4	57.4	1.22	0	0.0	0.00
Cheumatopsyche	13	186.6	3.96	0	0.0	0.00
Stenelmis	3	43.1	0.91	0	0.0	0.00
Thienemannimyia grp.	16	229.7	4.88	0	0.0	0.00
Nanocladius crassicornus/rectinervis	3	43.1	0.91	0	0.0	0.00
Chironomus	0	0.0	0.00	2	28.7	0.35
Cryptochironomus	102	1,464.0	31.10	12	172.2	2.12
Dicrotendipes neomodestus	19	272.7	5.79	1	14.4	0.18
Dicrotendipes fumidus	5	71.8	1.52	0	0.0	0.00
Paralauterborniella nigrohalteralis	0	0.0	0.00	10	143.5	1.76
Paratendipes	0	0.0	0.00	2	28.7	0.35
Polypedilum flavum	37	531.1	11.28	1	14.4	0.18
Polypedilum halterale grp.	8	114.8	2.44	13	186.6	2.29
Polypedilum scalaenum grp.	62	889.9	18.90	15	215.3	2.65
Pseudochironomus	3	43.1	0.91	0	0.0	0.00
Stictochironomus	0	0.0	0.00	1	14.4	0.18
Cladotanytarsus mancus grp.	11	157.9	3.35	14	200.9	2.47
Ferrissia	0	0.0	0.00	1	14.4	0.18
Corbicula fluminea	24	344.5	7.32	10	143.5	1.76
Musculium	0	0.0	0.00	1	14.4	0.18
Pisidium	0	0.0	0.00	9	129.2	1.59
TOTAL BENTHOS	328	4,707.9	100.00	567	8,138.3	100.00

WATERWAY= SALT CR., LOCATION= HIGGINS RD., STATION= 79,
and DATE= 18JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	216	3,100.3	92.70	256	3,674.4	36.78
Hydracarina	0	0.0	0.00	2	28.7	0.29
Collembola	0	0.0	0.00	1	14.4	0.14
Caenis	0	0.0	0.00	44	631.5	6.32
Enallagma	0	0.0	0.00	4	57.4	0.57
Corixidae	0	0.0	0.00	15	215.3	2.16
Cyrenellus fraternus	0	0.0	0.00	2	28.7	0.29
Oecetis	0	0.0	0.00	1	14.4	0.14
Dubiraphia	0	0.0	0.00	88	1,263.1	12.64
Stenelmis	0	0.0	0.00	1	14.4	0.14
Tanytus	2	28.7	0.86	6	86.1	0.86
Procladius	7	100.5	3.00	163	2,339.6	23.42
Ablabesmyia mallochi	0	0.0	0.00	3	43.1	0.43
Nanocladius crassicornus/rectinervis	0	0.0	0.00	3	43.1	0.43
Chironomus	2	28.7	0.86	3	43.1	0.43
Cladopelma	0	0.0	0.00	25	358.8	3.59
Cryptochironomus	5	71.8	2.15	3	43.1	0.43
Cryptotendipes	0	0.0	0.00	6	86.1	0.86
Dicrotendipes modestus	0	0.0	0.00	6	86.1	0.86
Endochironomus nigricans	0	0.0	0.00	3	43.1	0.43
Glyptotendipes	0	0.0	0.00	25	358.8	3.59
Parachironomus	0	0.0	0.00	3	43.1	0.43
Polypedilum halterale grp.	0	0.0	0.00	14	200.9	2.01
Paratanytarsus	0	0.0	0.00	3	43.1	0.43
Tanytarsus	0	0.0	0.00	8	114.8	1.15
Tanytarsus sepp	0	0.0	0.00	6	86.1	0.86
Physa	0	0.0	0.00	1	14.4	0.14
Corbicula fluminea	1	14.4	0.43	0	0.0	0.00
Musculium	0	0.0	0.00	1	14.4	0.14
TOTAL BENTHOS	233	3,344.3	100.00	696	9,989.9	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= SALT CR.,
 LOCATION= THORNDALE AVE.,
 STATION= SC3,
 and DATE= 14JUL08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	29	416.2	12.18	110	1,578.9	67.48
Cheumatopsyche	6	86.1	2.52	0	0.0	0.00
Procladius	0	0.0	0.00	12	172.2	7.36
Ablabesmyia janta	0	0.0	0.00	1	14.4	0.61
Ablabesmyia mallochi	0	0.0	0.00	3	43.1	1.84
Thienemannimyia grp.	0	0.0	0.00	2	28.7	1.23
Cricotopus bicinctus grp.	2	28.7	0.84	1	14.4	0.61
Chironomus	0	0.0	0.00	6	86.1	3.68
Cryptochironomus	39	559.8	16.39	7	100.5	4.29
Cryptotendipes	0	0.0	0.00	1	14.4	0.61
Dicrotendipes neomodestus	41	588.5	17.23	3	43.1	1.84
Dicrotendipes lucifer	2	28.7	0.84	0	0.0	0.00
Paracladopelma	8	114.8	3.36	0	0.0	0.00
Paratendipes	2	28.7	0.84	5	71.8	3.07
Polypedilum flavum	0	0.0	0.00	3	43.1	1.84
Polypedilum halterale grp.	8	114.8	3.36	0	0.0	0.00
Polypedilum illinoense	0	0.0	0.00	6	86.1	3.68
Polypedilum scalaenum grp.	57	818.1	23.95	0	0.0	0.00
Stictochironomus	8	114.8	3.36	0	0.0	0.00
Cladotanytarsus mancus grp.	18	258.4	7.56	3	43.1	1.84
Tanytarsus sepp	4	57.4	1.68	0	0.0	0.00
Ferrissia	2	28.7	0.84	0	0.0	0.00
Corbicula fluminea	12	172.2	5.04	0	0.0	0.00
TOTAL BENTHOS	238	3,416.1	100.00	163	2,339.6	100.00

WATERWAY= SALT CR.,
 LOCATION= WOLF RD.,
 STATION= 24,
 and DATE= 11AUG08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	20	287.1	7.94	0	0.0	0.00
Oligochaeta	159	2,282.2	63.10	0	0.0	0.00
Stenacron	3	43.1	1.19	0	0.0	0.00
Tricorythodes	1	14.4	0.40	0	0.0	0.00
Hetaerina	2	28.7	0.79	0	0.0	0.00
Argia	5	71.8	1.98	0	0.0	0.00
Cheumatopsyche	45	645.9	17.86	0	0.0	0.00
Dubiraphia	1	14.4	0.40	0	0.0	0.00
Stenelmis	8	114.8	3.17	0	0.0	0.00
Thienemannimyia grp.	0	0.0	0.00	1	14.4	33.33
Chironomus	2	28.7	0.79	0	0.0	0.00
Cryptochironomus	0	0.0	0.00	1	14.4	33.33
Polypedilum flavum	3	43.1	1.19	0	0.0	0.00
Polypedilum illinoense	2	28.7	0.79	1	14.4	33.33
Rheotanytarsus	1	14.4	0.40	0	0.0	0.00
TOTAL BENTHOS	252	3,617.0	100.00	3	43.1	100.00

APPENDIX C2 - 2008 MACROINVERTEBRATE SAMPLES - RAW DATA SUMMARY - PETITE PONAR DATA

WATERWAY= W.B. DUPAGE R.,
 LOCATION= LAKE ST.,
 STATION= 64,
 and DATE= 30JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Turbellaria	3	43.1	1.21	0	0.0	0.00
Oligochaeta	136	1,952.0	54.84	433	6,215.0	91.93
Cheumatopsyche	7	100.5	2.82	0	0.0	0.00
Hydroptila	0	0.0	0.00	1	14.4	0.21
Peltodytes	1	14.4	0.40	1	14.4	0.21
Tanypus	1	14.4	0.40	0	0.0	0.00
Procladius	1	14.4	0.40	11	157.9	2.34
Thienemanniella xena	6	86.1	2.42	0	0.0	0.00
Cricotopus bicinctus grp.	12	172.2	4.84	0	0.0	0.00
Cricotopus sylvestris grp.	1	14.4	0.40	0	0.0	0.00
Nanocladius distinctus	4	57.4	1.61	0	0.0	0.00
Chironomus	7	100.5	2.82	6	86.1	1.27
Cladopelma	0	0.0	0.00	1	14.4	0.21
Cryptochironomus	28	401.9	11.29	8	114.8	1.70
Dicrotendipes neomodestus	5	71.8	2.02	0	0.0	0.00
Dicrotendipes fumidus	2	28.7	0.81	0	0.0	0.00
Glyptotendipes	2	28.7	0.81	0	0.0	0.00
Polypedilum halterale grp.	0	0.0	0.00	1	14.4	0.21
Polypedilum illinoense	5	71.8	2.02	1	14.4	0.21
Polypedilum scalaenum grp.	4	57.4	1.61	2	28.7	0.42
Cladotanytarsus mancus grp.	10	143.5	4.03	0	0.0	0.00
Paratanytarsus	7	100.5	2.82	0	0.0	0.00
Tanytarsus	0	0.0	0.00	3	43.1	0.64
Simulium	5	71.8	2.02	0	0.0	0.00
Menetus	1	14.4	0.40	0	0.0	0.00
Corbicula fluminea	0	0.0	0.00	1	14.4	0.21
Musculium	0	0.0	0.00	2	28.7	0.42
TOTAL BENTHOS	248	3,559.6	100.00	471	6,760.4	100.00

WATERWAY= W.B. DUPAGE R.,
 LOCATION= SPRINGSGUTH RD.,
 STATION= 110,
 and DATE= 25JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	393	5,640.8	37.25	8,590	123,294.6	94.19
Helobdella stagnalis	33	473.7	3.13	30	430.6	0.33
Mooreobdella microstoma	7	100.5	0.66	10	143.5	0.11
Caecidotea	4	57.4	0.38	30	430.6	0.33
Procambarus	0	0.0	0.00	10	143.5	0.11
Chauliodes	1	14.4	0.09	0	0.0	0.00
Tanypus	6	86.1	0.57	0	0.0	0.00
Acricotopus	31	445.0	2.94	0	0.0	0.00
Cricotopus bicinctus grp.	6	86.1	0.57	0	0.0	0.00
Cricotopus sylvestris grp.	63	904.3	5.97	0	0.0	0.00
Chironomus	504	7,234.0	47.77	360	5,167.2	3.95
Cladopelma	6	86.1	0.57	10	143.5	0.11
Physa	1	14.4	0.09	0	0.0	0.00
Musculium	0	0.0	0.00	40	574.1	0.44
Pisidium	0	0.0	0.00	40	574.1	0.44
TOTAL BENTHOS	1,055	15,142.7	100.00	9,120	130,901.8	100.00

WATERWAY= W.B. DUPAGE R.,
 LOCATION= WALNUT AVE.,
 STATION= 89,
 and DATE= 25JUN08

TAXA	CENTER			SIDE		
	#	#/m2	%	#	#/m2	%
Oligochaeta	50	717.7	51.55	72	1,033.4	46.15
Helobdella stagnalis	1	14.4	1.03	12	172.2	7.69
Cricotopus bicinctus grp.	0	0.0	0.00	2	28.7	1.28
Cricotopus sylvestris grp.	1	14.4	1.03	0	0.0	0.00
Chironomus	37	531.1	38.14	67	961.7	42.95
Cryptochironomus	2	28.7	2.06	0	0.0	0.00
Dicrotendipes modestus	0	0.0	0.00	1	14.4	0.64
Paratendipes	0	0.0	0.00	1	14.4	0.64
Polypedilum halterale grp.	1	14.4	1.03	0	0.0	0.00
Polypedilum illinoense	1	14.4	1.03	1	14.4	0.64
Polypedilum scalaenum grp.	4	57.4	4.12	0	0.0	0.00
TOTAL BENTHOS	97	1,392.3	100.00	156	2,239.1	100.00

