

**Macroinvertebrates in the Wetlands
of the Great Salt Lake
2007**

**Prepared for the
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Summary

This report summarizes the data on benthic macroinvertebrates collected from 14 ponds in the Great Salt Lake wetlands during August to November 2007. The purposes of the sampling were to: (1) compare two quantitative sampling methods (cores and dip nets), (2) assess the effects of elevated salinity and nutrient (nitrogen and phosphorus) levels on macroinvertebrate abundance and composition, and (3) assess which characteristics of the macroinvertebrate community would be useful in water quality monitoring in the wetlands.

A total of 32 taxa were collected in the 2007 sampling, and the common taxa, including Chironomidae (midges), Corixidae (water boatmen), *Ischnura* damselflies, *Callibaetis* mayflies, *Hyaella* amphipods, and snails, were the same taxa found in previous sampling at these ponds. Dip net samples collected a greater number of taxa than the core samples and had less variation in total number collected between replicate samples.

Samples at ponds with salinities greater than 10 ppt showed a shift in community composition to salt-tolerant taxa and a reduction in total diversity. The corixid *Trichocorixa verticalis*, the brine shrimp *Artemia franciscana*, and the dipteran *Ephydra* are salt-tolerant species that only occur at high salinity levels.

A wide range of nitrogen and phosphorus concentrations were present at the sites during 2007. Although many of the common taxa are tolerant of a wide range of concentrations of these nutrients, a few taxa were more abundant at low concentrations, particularly *Hyaella* amphipods and *Callibaetis* mayflies. Ponds relatively high in nutrients had fewer total taxa, reduced abundance and diversity of aquatic beetles, lower diversity index values, and a greater dominance by chironomids than ponds low in nutrients.

A preliminary Benthic Index of Biological Integrity (B-IBI) was constructed using five metrics: % *Hyaella* of total density, % Ephemeroptera of total density, Simpson's diversity index, total taxa, and number of aquatic beetle taxa. Significant correlations were found between nitrogen and phosphorus concentrations and B-IBI scores at low-salinity ponds sampled in 2007, and this relationship was verified when tested using nutrient and benthic data collected from low-salinity ponds sampled in 2006. The preliminary B-IBI for the GSL wetlands ponds was robust at detecting changes in the macroinvertebrate communities related to nutrient levels, both between ponds during the same sampling period and between years at individual ponds.

Introduction

This report summarizes the data on benthic macroinvertebrates collected from 14 ponds in the Great Salt Lake wetlands during August to November 2007. In addition to continuing monitoring program for macroinvertebrates started in 2004, the 2007 collections compared two quantitative sampling methods (cores and dip nets). These collections also provided data to assess the effects of elevated salinity levels and eutrophic conditions (as indicated by nitrogen and phosphorus levels) on macroinvertebrate abundance and composition. This report presents some potential characteristics (metrics) of the macroinvertebrates that could be used to enhance the water quality monitoring program for the wetlands.

Methods

The 14 ponds sampled for macroinvertebrates in 2007 are listed in Table 1 (and shown in Fig. 1), and descriptions of the different types of samples collected are given in Table 2. Field samples were collected by Division of Water Quality personnel. Quantitative dip net and core samples from all 14 ponds (listed as EVC, OWC, EVDN, and OWDN in Table 2) were collected in November 2007. At four of the sites (FBT, N47, PWI, and IWP; referred to in this report as the “primary” sites), three replicate samples of each type were collected. One sample of each type was taken at the remaining ten sites (referred to here as the “secondary” sites). A few qualitative dip net samples (“sweep or target” samples in Table 2) were collected in late August-early September 2007 from selected sites. Samples were placed in plastic jars with labels and preserved in alcohol. Processing of the samples was conducted from November 2008 to February 2009.

Samples were washed with tap water on a 500 μm -mesh brass sieve to remove the alcohol and finer debris. The remaining material was placed in a white enamel pan for separating animals from the larger debris. If a sample contained relatively few animals (<100), all animals were collected. If a sample contained a large number of animals, all of the uncommon taxa were collected completely, and abundant taxa (typically Chironomidae) were subsampled. Animals were placed in alcohol following separation from the debris for later counting and identification. Identifications were based on keys given in the Taxonomic References and on reference specimens previously collected from the sampling sites.

Most animals were intact and identifiable from the field samples, but a few taxa showed evidence of significant decomposition during the 1-year period between collection and processing. Snails were often present only as empty shells (although some shells were from snails that had died long before collection), and oligochaetes frequently disintegrated during washing.

Statistical tests (e.g., descriptive measures, regression and correlation, comparisons of means between samples, principal components analysis) were calculated using Prostat v.4.03 (Poly Software International). Water chemistry data were obtained from the STORET database using samples collected either on or near the same date as the macroinvertebrate samples. In all of the statistical measures, macroinvertebrate density data (e.g., number per sample) were first transformed to

natural logs. Percentage data were transformed using the arcsin-square root function (Elliott 1971, Green 1979).

Some of the data collected in 2004-2006 (Gray 2005) are used in the current analysis. Macroinvertebrate samples collected from this period were qualitative collections using a dip net. Animals were picked by hand from debris in the field, and there was no attempt to pick all individuals present in a sample. In general, handpicking tends to favor collection of larger and more active animals, such as beetles, odonates, and hemipterans, whereas small, inconspicuous animals, such as chironomids and mayflies, are underrepresented.

Results and Discussion

Taxa Present

Appendix A gives the listing of taxa and abundance in samples collected at each site during 2007. Appendix B gives the same data but in tabular form by site.

A total of 32 taxa collected in the 2007 samples, slightly more than one-half of the 55 taxa found thus far (Table 3). The dytiscid beetle, *Coptotomus*, was the only new addition to the cumulative listing of taxa collected in the wetlands since 2004.

The most abundant taxa were those taxa found in abundance at these sites in previous sampling, e.g., chironomids, corixids, *Ischnura* damselflies, *Callibaetis* mayflies, *Hyalella* amphipods, and snails. The relative abundance of these taxa at the sampling sites is indicated in the figures given in Appendix C. Overall, these taxa are widespread throughout the wetlands areas and tolerant of a wide range of physical/chemical conditions.

Taxa found in smaller numbers or only at a few sites included *Notonecta*, aquatic beetles, dragonfly nymphs, tabanid larvae, the mayfly *Caenis*, *Erpobdella* leeches, and oligochaetes. *Physella* and *Stagnicola* snails were present at nearly all sites, but true numbers were difficult to determine due to possible losses during sample storage. *Gyraulus* snails were especially abundant at the FB-Turpin pond, perhaps due to the large amount of filamentous algae present (its preferred habitat). Taxa represented by only a single individual included the caddisfly *Ylodes*, the dipterans *Ephydra*, *Sepedon*, and *Holorusia*, and the leech *Helobdella*.

Comparison of Sampling Methods

Collections by core and dip net samplers were made in two main habitats: open water and emergent vegetation. There was not always a clear distinction between the open water and emergent vegetation habitats due to macrophyte growth on the bottom of pools in the open water habitats (Arne Hultquist, personal communication). Consequently, the emphasis here is placed on the differences between the two types of samplers.

In terms of number of taxa collected, the dip net samples consistently collected a greater number of total taxa and unique taxa than the core samples. At the four primary sites, few taxa were found in the core samples that were not also found in the dip net samples (Figs. 2 and 3). Core samples collected 4.0 ± 0.4 taxa per sample (mean \pm 1s.e.; combined data from all primary sites) and 56%-79% of total taxa found at a site, whereas dip net samples collected 6.8 ± 0.5 taxa per sample and 77%-93% of total taxa at a site. These differences are to be expected given the much larger area sampled by the dip net sampler (Table 2). Similar differences in collection efficiencies of the two samplers were also apparent at the secondary sites (Figs. 4-7).

Dip net samples also contained 80% or more of the individuals of the most abundant taxa collected at the sites (Fig. 8). Chironomids were the only taxon in which core samples collected more individuals than dip net samples relative to the area sampled.

When sample numbers are converted to density (number per square meter), open water cores showed the highest values compared to the other samplers and habitats at the primary sites (Fig. 9). However, variance between replicates in the open water core samplers was also higher than the other sample types. The high variance reflects the typical "clumped" distribution of benthic animals (Elliott 1971), and the likelihood that the area of a core sample was smaller than the size of a typical benthic "clump." Thus, core samples likely overestimated benthic densities. Density data for the secondary sites are given in Figures 10-12. Open water cores had the highest density at five of these sites, but open water dip net samples had the highest densities at four of the remaining five sites. Because of these results, the dip net samples (combined OWDN and EVDN) were the primary data used in the analyses discussed below.

Macroinvertebrate Community Composition and Abundance in relation to Salinity

The previous report on macroinvertebrates in the GSL wetlands indicated that salinity has a significant influence on species distributions and community composition in the GLS wetlands (Gray 2005). However, the qualitative nature of previous benthic samples made it difficult to distinguish effects of high salinity from other water chemistry parameters, such as nutrients. The 2007 samples helped to clarify the situation and allow some tentative conclusions on the effect of salinity.

The GSL wetlands ponds exhibit a wide range of salinity values compared to most freshwater habitats due to the influence of changing water levels in the Great Salt Lake. Sites that are relatively isolated from lake level changes, such as the Newstate Ponds and the FB Unit 1 and 2 ponds, have consistently low salinity levels (<2 ppt; data from STORET records; see also Table 4). Other sites, such as the PSG ponds, South B Pond, and West A Pond, usually have higher salinity levels (1-9 ppt) that often fluctuate from month to month. Sites ISW, FBR, and FBT can have very high salinities with extreme fluctuations; salinity measurements at site ISW, for example, varied from 8 ppt to 56 ppt between January 2006 and November 2007. Site FBR varied from 12-17 ppt during Fall 2007, and site FBT, although usually <2 ppt, had a salinity of 17 ppt in February 2006.

A review of the literature indicates that the majority of the common macroinvertebrates in the GSL wetlands are tolerant of salinity levels up to 10 ppt. These taxa include amphipods (Benbow & Merritt 2004), mayflies (Benbow & Merritt 2004, Roback 1974), chironomids (Roback 1974), hemipterans (Roback 1974, Usinger 1956), snails (Benbow & Merritt 2004), and odonates (Corbet 1999, Roback 1974). Of the taxa collected in 2007, the most sensitive to high salinity are leeches. *Erpobdella* and related species are the most sensitive with an upper salinity tolerance limit of 1-2 ppt, while *Helobdella* is reported to be tolerant of salinities up to 3 ppt (Sawyer 1974).

Three taxa, the corixid *Trichocorixa verticalis*, the brine shrimp *Artemia franciscana*, and the dipteran *Ephydra*, are consistent indicators of high salinities. At Site ISW in 2006, when salinities were 30-56 ppt prior to sampling, *Trichocorixa* and *Ephydra* comprised 99% of total macroinvertebrates and 2 of the 3 taxa present. In 2007, when salinity was 8-11 ppt prior to sampling, this site had 8 taxa (including *Trichocorixa* and *Artemia*) with chironomids as the most abundant taxon. Site FBR had only 3 taxa present with a salinity range of 11-17 ppt, and all were adult hemipterans (including *Trichocorixa*). Thus, high salinities produce a shift in community composition to a greater dominance by these salt-tolerant taxa and a reduction in total diversity.

Macroinvertebrate Community Composition and Abundance in relation to Nutrients (Nitrogen and Phosphorus)

An important element in the study of the wetlands macroinvertebrates is the relationship between community composition and abundance to the impairment of water quality resulting, at least in part, from eutrophication caused by relatively high concentrations of phosphorus and nitrogen (measured as ammonium, NH_4 , and as nitrates+nitrites, or $\text{NO}_3 + \text{NO}_2$). A wide range of concentrations of these chemical parameters was present at the ponds during the period when macroinvertebrate samples were collected in 2007 (Table 4). The ISSR, PSG and FB Unit ponds were relatively low in concentrations of the two nitrogen parameters, whereas the Newstate Ponds were relatively high. The pattern was less distinct for phosphorus. The PSG ponds were consistently low in phosphorus, while the remaining areas had higher and more variable concentrations between ponds. Ranges of values for other water chemistry parameters, such as dissolved oxygen and pH, were generally similar at all of the ponds.

In the discussion below, the macroinvertebrate data from the dip net samples (combined EVDN and OWDN) collected in the PSG, FB Unit, and Newstate areas (Table 1) was used. The ISSR ponds and Site FBR were excluded from the analysis due to the overriding effect of high salinities.

Although most of the common taxa in the wetlands are tolerant of eutrophic conditions, there was a distinct shift in dominance among taxa between the sampling areas relative to nutrient levels. The FB Unit ponds as a whole had a low proportion of chironomids and a relatively equitable distribution of individuals among the other common taxa (Fig. 13). In contrast, chironomids dominated the Newstate ponds (Fig. 14). The PSG ponds were intermediate in composition with a higher proportion of chironomids than the FB Unit ponds but also higher proportions of other taxa compared to the Newstate ponds (Fig. 15).

The high proportion of chironomids at the PSG ponds is due at least in part to the relatively low number of mayflies (primarily *Callibaetis*) collected. In previous years, *Callibaetis* mayflies were abundant at these sites, comprising 24% of total individuals despite the less efficient sampling methods (Gray 2005). At the time of sampling in November 2007, water temperatures at the PSG sites were 5-7°C colder than the Newstate and FB Unit sites. Nearly all individuals were late instar mayfly nymphs, suggesting that the winter generation had not yet hatched at the PSG ponds.

The absolute densities of some common taxa were different between the PSG and FB Unit ponds and the Newstate ponds. Densities of *Hyalella* amphipods and *Callibaetis* mayflies were significantly higher at the areas with low nutrients compared to the high-nutrient, Newstate ponds, but densities of *Chironomus*, Tanypodinae chironomids, corixids, and odonates were not significantly different (Table 5).

Although aquatic beetles are a small proportion of total densities, these macroinvertebrates account for one-fourth of all taxa collected in the wetlands since 2004. The overall abundance of beetles appears to be related to nutrient levels. Since 2004 at the current sampling sites (Table 1), 80% of adults and 96% of all beetle larvae were collected in pond with low nutrient levels. Of the more common beetles, *Agabus*, *Enochrus*, *Ametor*, and *Tropisternus* are widespread in the

wetlands and occur in a wide range of ponds regardless of nutrient levels, whereas *Hydaticus*, *Hydroporus*, *Coptotomus*, and *Halipilus* have been rare in habitats with high nutrient levels.

Several widely-used macroinvertebrate community metrics were calculated to further examine the relationship of community composition to nutrients. These metrics included total density, total taxa, Shannon diversity index and evenness, Simpson's diversity index and evenness, and the modified Hilsenhoff Biotic Index. Three metrics showed distinct differences between the high-nutrient and low-nutrient areas (Table 6). Total taxa per sample in the FB Unit and PSG ponds averaged 2 taxa more than the Newstate ponds. Both the Shannon diversity index and Simpson's diversity index were significantly higher in the low-nutrient areas. No significant differences between areas were noted in total density, evenness measures associated with the diversity indices, and the HBI index.

Preliminary Benthic Index of Biological Integrity (B-IBI)

An Index of Biological Integrity (IBI) is a synthesis of biological information which numerically shows relationships between physical/chemical conditions and biological attributes. It is composed of several biological measures (metrics) that are sensitive to changes in the biological "integrity" of the organisms considered. This often involves a multi-metric approach in which a number of biological attributes are used to compute an overall score. IBI scores for a monitoring site or sites can then be used either to compare with reference conditions or to track changes occurring at a given site over time (Karr 1996).

The metrics used to compute macroinvertebrate IBI scores are diverse but generally fall into the following categories:

- (1) pollution tolerance (e.g., Hilsenhoff Biotic Index);
- (2) taxa diversity (total taxa or number of taxa within a particular group, diversity indices);
- (3) absolute or relative abundance of specific taxa or groups of taxa; and
- (4) feeding (trophic) composition (e.g., percentage of predators).

The number and type of metrics used to compute an IBI score varies with the habitat and type of impairment, and each monitoring program has its own set of metrics depending upon the goals of the monitoring program.

To compute an IBI score, the range of values for a given metric is divided into 3 categories representing unimpaired, somewhat impaired, and impaired conditions. Each category is then given an integer value or score; typically, the unimpaired category is given a score of 5, the somewhat impaired category a score of 3, and the impaired category a score of 1. For the community at a given site, the metric values are converted to category scores which are then summed to give a cumulative IBI score.

The B-IBI should include those metrics that consistently show differences related to the type of impairment, are from a diversity of metric categories (see above), and have a relatively broad range of values to allow sufficient partitioning of subranges within impairment categories. At the same time, the metrics included in the index

ideally would be uncorrelated with each other in order to avoid duplication of information and thus artificially inflating index scores.

For the GSL wetlands ponds, a preliminary benthic IBI (B-IBI) is presented below for the macroinvertebrates using the dip net sampler data from November 2007. This B-IBI applies only to freshwater sites (i.e., salinity not exceeding 10 ppt) with an emphasis on correlations between metrics and nutrient (phosphorus and nitrogen) concentrations.

A number of metrics were considered for the wetlands B-IBI based on the results described in the previous section, including the HBI index, percent of total density composed of amphipods (% *Hyalella*), % Ephemeroptera (mayflies), % Chironomidae, Shannon diversity index, Simpson's diversity index, total taxa, and number of aquatic beetle taxa. All of these metrics had significant (or close to significant) correlations with one or more of the three chemistry parameters present at the time of sampling using data from the PSG, FB Unit, and Newstate ponds.

Based on the above criteria, the following five metrics were chosen for the preliminary B-IBI: % *Hyalella*, % Ephemeroptera, Simpson's diversity index, total taxa, and number of aquatic beetle taxa (Table 7). The range of values for each metric assigned to each impairment category was based on quartiles of either the absolute value range (total taxa, beetle taxa, and Simpson's diversity) or ranked range (% *Hyalella* and % Ephemeroptera). The lower quartile of values was assigned to the lowest category (score = 1) and the upper quartile to the highest category (score = 5). With five metrics the cumulative B-IBI score had a minimum value of 5 and a maximum value of 25. The B-IBI was then computed for each of the ten ponds in the analysis (Table 8).

Except for total taxa and number of beetle taxa, these metrics were uncorrelated with each other using the current data set, except for a correlation between total taxa and number of beetle taxa ($r = 0.64$, $P = 0.05$). Both are included in the preliminary B-IBI because (1) the beetle taxa metric emphasizes the predator trophic category (most beetles were predaceous Hydrophilidae larvae and Dytiscidae adults and larvae), and (2) the total taxa metric includes other uncommon taxa that are typically only found in low nutrient habitats, such as tipulids and caddisflies.

The other metrics not included in the B-IBI were excluded for several reasons. Percent Chironomidae was significantly correlated with total taxa and the diversity indices, thus it did not add new information. In addition, individual chironomid taxa show a wide range of tolerance to eutrophic conditions. Whereas *Chironomus* and Tanypodinae are highly tolerant, the Tanytarsini and Orthoclaadiinae are typically less tolerant (the latter two taxa of chironomids, although rare or absent in the November 2007 samples, have been occasionally abundant in previous collections). The HBI index was not selected due to its limited range of values (8.5 to 10 in the 2007 samples). Most wetlands taxa have high tolerance values (Table 3); furthermore, the listed tolerance values were derived primarily from stream studies, and additional work would be needed to determine values appropriate to the wetlands. The Shannon diversity index was highly correlated with Simpson's diversity index. Simpson's index is considered a "dominance" index that responds to changes in proportions of taxa, such as the response of wetlands macroinvertebrates to nutrients. The Shannon index is based on information theory and is better suited to

communities with large numbers of species. Simpson's index also has a greater range of possible values (1-8 in the current sample set) than the Shannon index (0-2).

Values for each metric and B-IBI scores for the 10 ponds sampled in 2007 are given in Table 8. In order to test the relationship between the preliminary B-IBI and nutrient levels, B-IBI scores were regressed against the individual nutrient concentrations and a combined nutrient variable derived from principal components analysis. This combined nutrient variable, or nutrient PC1 score, is a linear combination of the three nutrient concentrations (in the 2007 data, PC1 included 70% of the original variance in the chemistry data). The graph of 2007 B-IBI scores against the nutrient PC1 scores is given in Figure 16. As indicated on the graph, the relationship was significant. Correlations between the individual nutrients and B-IBI scores also were significant, particularly for nitrogen (for ammonium: $r = -0.71$, $P = 0.02$; for nitrites + nitrates: $r = -0.88$, $P = 0.001$; and for phosphorus: $r = -0.66$, $P = 0.04$; all d.f. = 8).

A further test of the B-IBI and nutrients relationship was conducted using benthic and nutrient data from ponds sampled in 2006. Sites included 9 of the 10 ponds sampled in 2007; in addition, three Ambassador ponds were included. A nutrient PC1 score was calculated for each site based on nutrient concentrations on or near the time of benthic sampling (Table 8). In this case, the PC1 variable accounted for 75% of variance in the water chemistry data. The graph of 2006 B-IBI scores against the 2006 nutrient PC1 scores is shown in Figure 17. Despite the paucity of high nutrient sites and the qualitative benthic sampling, the relationship was still significant.

Comparisons between B-IBI scores of individual sites between 2006 and 2007 show that the B-IBI did respond according to changes in nutrient levels. At the three Newstate ponds sampled both years, nutrient levels greatly increased from 2006 to 2007, and B-IBI scores were 6-12 points lower in 2007 than in 2006 (Table 8). FB Unit 2 pond (FB2) had lower nutrient levels in 2007 compared to 2006, and its B-IBI score was 14 points higher in 2007. At the ponds where nutrient levels were about the same in both years (PSG ponds and FB Unit 1), the average difference in B-IBI scores was 1 point. Thus, the preliminary B-IBI for the GSL wetlands ponds appears to be robust in terms of detecting changes in the macroinvertebrate communities related to nutrients, both between sites during the same sampling period and between sampling periods at individual sites.

Recommendations

1. Collect benthic samples with the dip net by taking a composite sample (8 sweeps, each sweep 1-meter in length) from each sampling site, including both open water and emergent vegetation in approximate proportion to the coverage of each type of habitat at the site.
2. Faster turnaround of sample processing to avoid losses from decomposition during storage.
3. Continuation of replicate sampling at the primary sites for at least another 2 years to allow statistical comparisons and refinement of B-IBI metrics.
4. Inclusion of the Ambassador ponds on a regular basis in the benthic monitoring program.
5. Additional sampling of ponds with high salinity to determine the rate at which the macroinvertebrate communities change in composition relative to changes in salinity.
6. Sampling at regular intervals (at least every 2 months) from spring through fall to determine life cycles of multivoltine taxa (mayflies and chironomids) in the different areas. This could be done at a few selected sites in a single year to reduce sampling cost.
7. Continue to coordinate macroinvertebrate sampling with water chemistry and other biological sampling.
8. Obtain information on formulations and schedules of mosquito spraying programs to determine potential impact on non-target taxa, particularly chironomids.

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Figure Legends

Figure 1. Google Earth™ map of Farmington Bay sampling sites. The PSG sites are located approximately 47 miles NNW of the FB Unit Ponds. Refer to Table 1 for specific site descriptions.

Figure 2. Total taxa in combined samples from the core sampler and the dip net sampler at each of the primary sampling sites in 2007. “Unique” taxa are those found by one type of sampler but not the other.

Figure 3. Total taxa by sample type (combined replicate samples) at the primary sampling sites in 2007. See Tables 1 and 2 for list of site codes and sample codes, respectively.

Figures 4-7. Total taxa by sample type (one sample only per type) at the secondary sampling sites in 2007.

Figure 8. Percentage of individuals of each taxon collected by each sample type. Percentages calculated from sample totals for all samples at all sites in 2007.

Figure 9. Total density of macroinvertebrates calculated from sample totals (combined totals from 3 replicates per sample type) at the primary sampling sites in 2007. Vertical bars indicate upper 95% confidence limits.

Figures 10-12. Total density of macroinvertebrates calculated from sample totals (one sample only per type) at the secondary sampling sites in 2007.

Figure 13. Pie chart of the common taxa at the Farmington Bay Unit Ponds (combined data from dip net samples collected in Nov. 2007 at sites FB1, FB2, and FBT).

Figure 14. Pie chart of the common taxa at the Newstate Ponds (combined data from dip net samples collected in Nov. 2007 at sites N20, N47, N56, and NMU).

Figure 15. Pie chart of the common taxa at the PSG Ponds (combined data from dip net samples collected in Nov. 2007 at sites PWI, PWO, and PPO).

Figure 16. Relationship between B-IBI scores and nutrient concentrations (combined into a single variable, PC1, using principal components analysis) for the PSG, Newstate, and FB Unit ponds in November 2007.

Figure 17. Relationship between B-IBI scores and nutrient concentrations (combined into a single variable, PC1, using principal components analysis) for the PSG, Newstate, FB Unit, and Ambassador ponds, 25 July to 1 August 2006. (Ambassador STORET site codes: 4985320 for pond 1 (AMB1), 4985340 for pond 2 (AMB2), and 4985350 for pond 5 (AMB5)).

Tables

Table 1. List of sites sampled for macroinvertebrates in 2007. Area names and site codes are unofficial designations used in this report.

Table 2. Descriptions of the types of macroinvertebrate samples collected in 2007.

Table 3. List of macroinvertebrate taxa collected at all sites during 2007. Taxon code follows USU's Buglab designations. Trophic categories and HBI index values after Barbour et al. (1999) and Merritt & Cummins (2007).

Table 4. Water chemistry parameters at the sites sampled in November 2007. Data are from the STORET database. Values represent ranges recorded from samples collected by DWQ from 21 August to 21 November 2007. (Note: not all parameters were measured on each sampling date.)

Table 5. Statistical comparisons of mean densities of selected taxa in low nutrient (FB Unit and PSG) and high nutrient (Newstate) ponds. Sample data from dip net samples collected in November 2007. (PSG ponds not included in *Callibaetis* test; see text.)

Table 6. Statistical comparisons of mean values for macroinvertebrate community metrics in low nutrient (FB Unit and PSG) and high nutrient (Newstate) ponds. Sample data from dip net samples collected in November 2007.

Table 7. Benthic metric ranges and category scores for the preliminary GSL wetlands Benthic Index of Biological Integrity (B-IBI).

Table 8. Benthic metrics, B-IBI scores, water chemistry data, and principal components scores for the wetlands ponds sampled in November 2007 and 25 July to 1 August 2006.

Appendices

Appendix A. Counts of individual taxa by STORET site, date, sampler type, and replicate sample for samples collected in 2007.

Appendix B. Community metrics by STORET site, date, sampler type, and replicate sample for samples collected in 2007.

Appendix C. Pie charts showing community composition at each of the 14 sampling sites in November 2007. Data from combined OWDN and EVDN samples (see Tables 1 and 2).

Figures

Figure 1

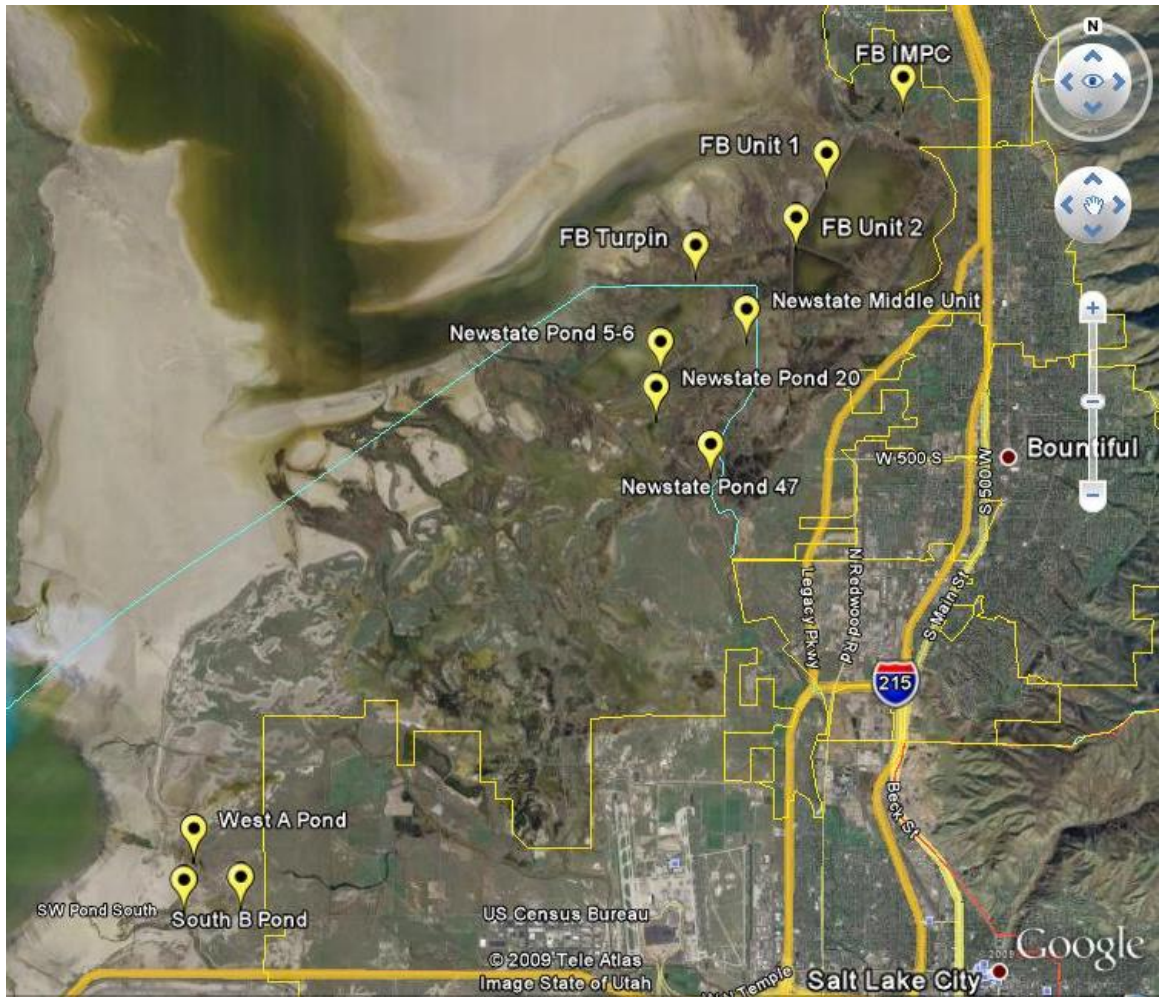


Figure 2

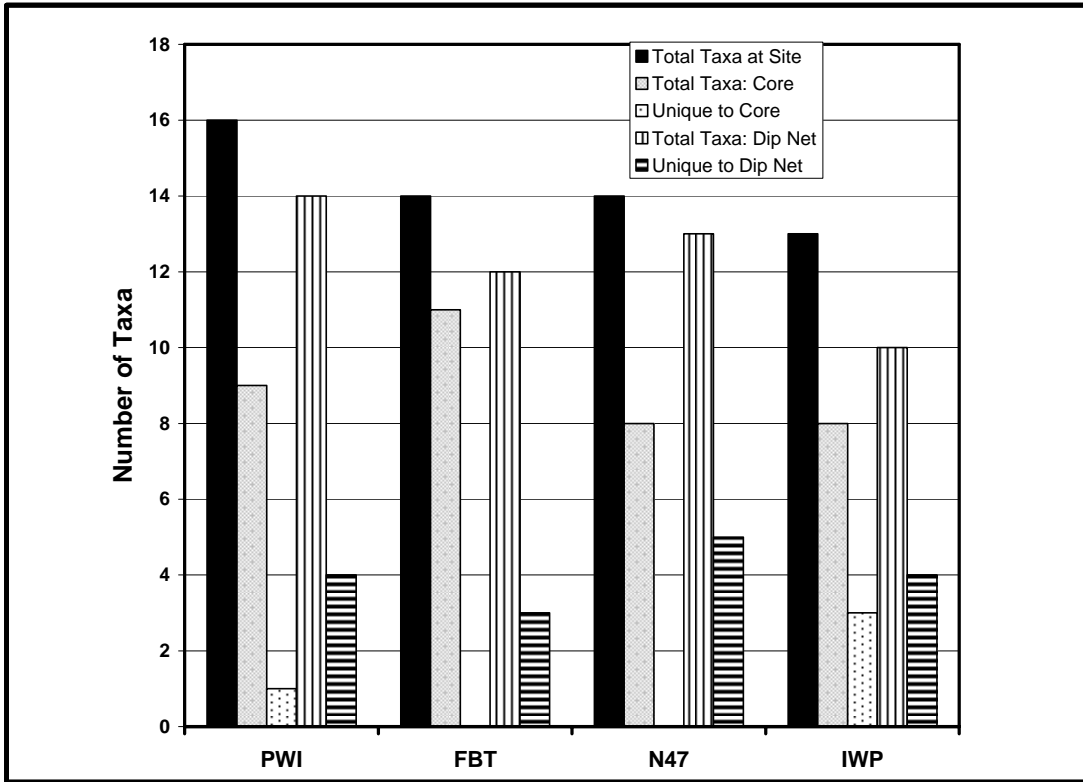


Figure 3

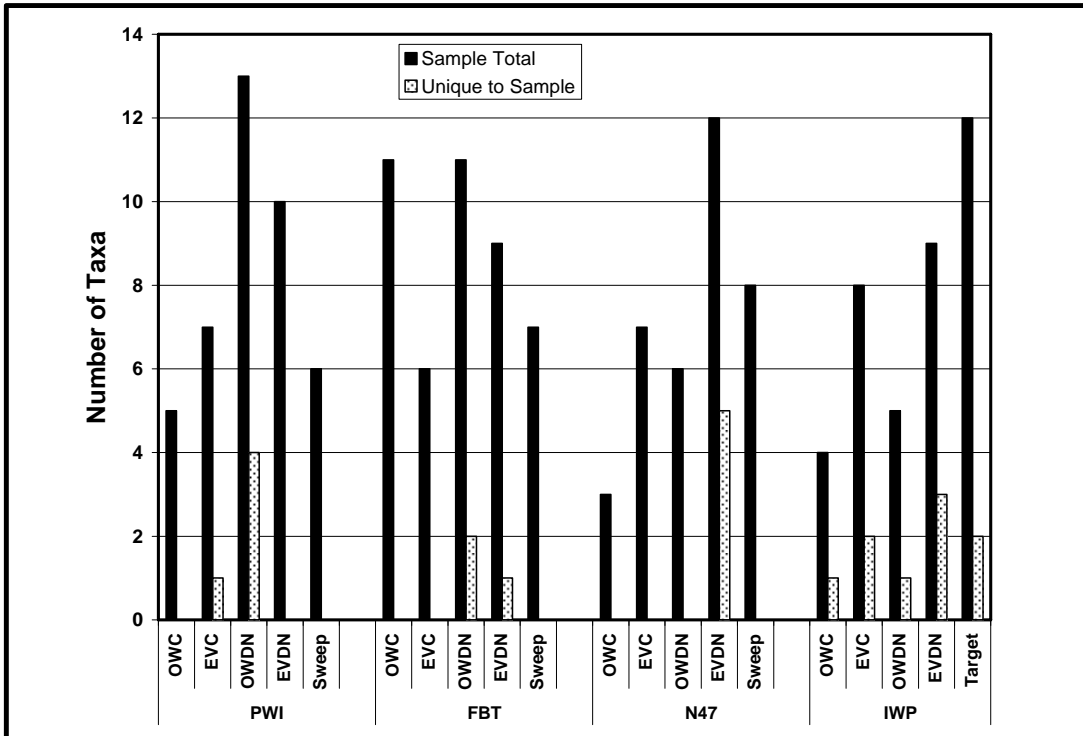


Figure 4

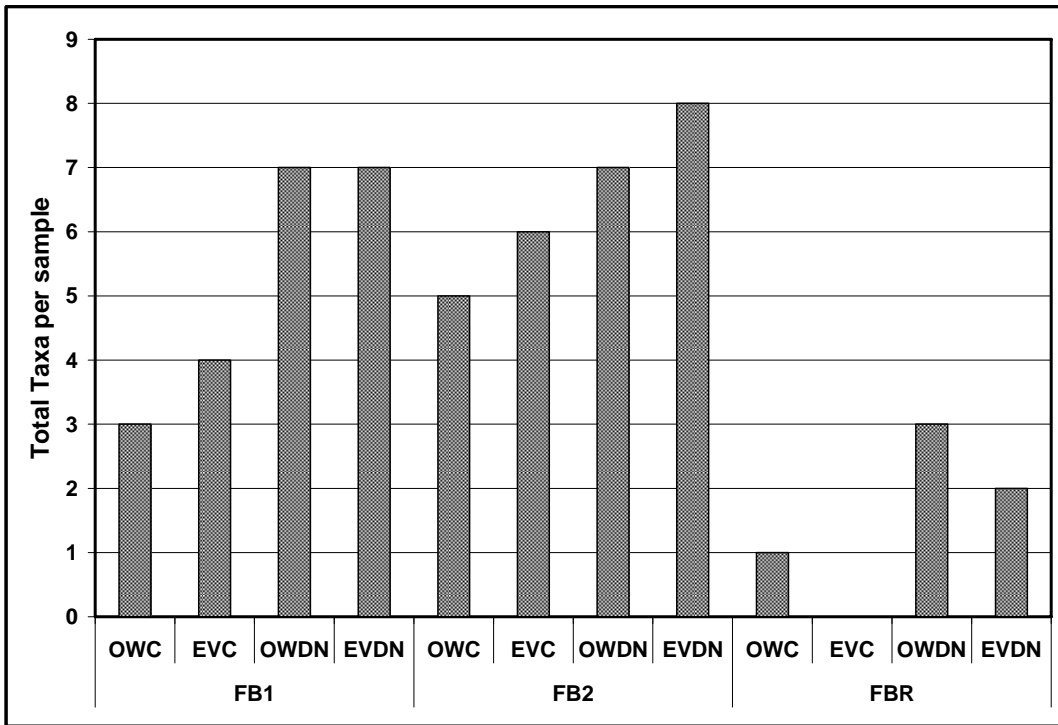


Figure 5

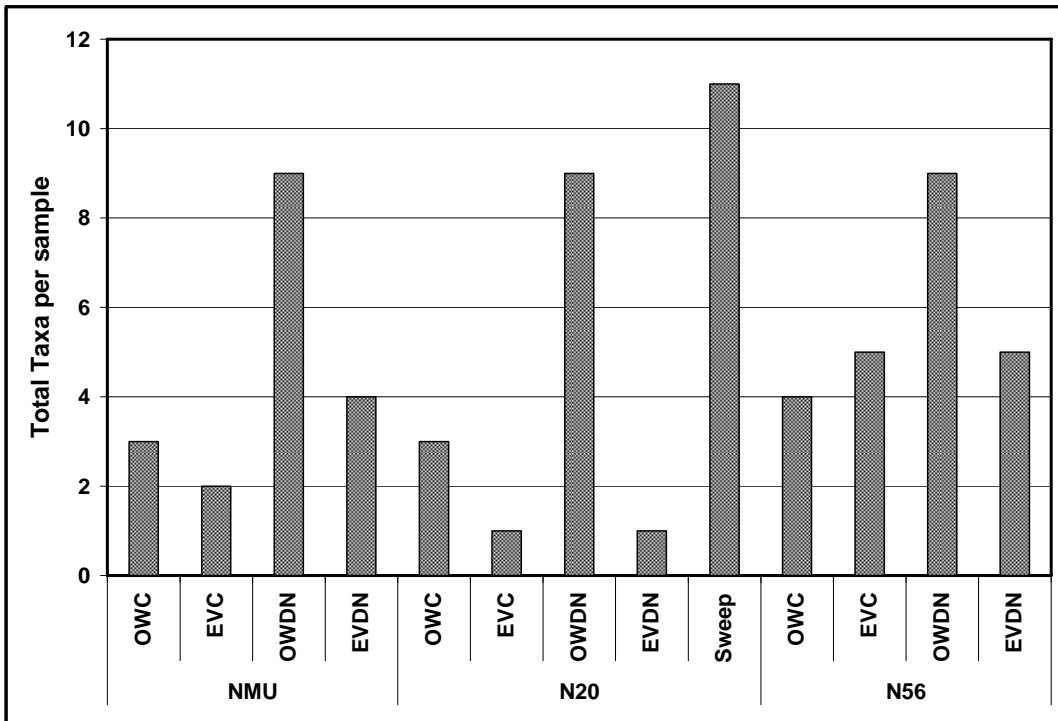


Figure 6

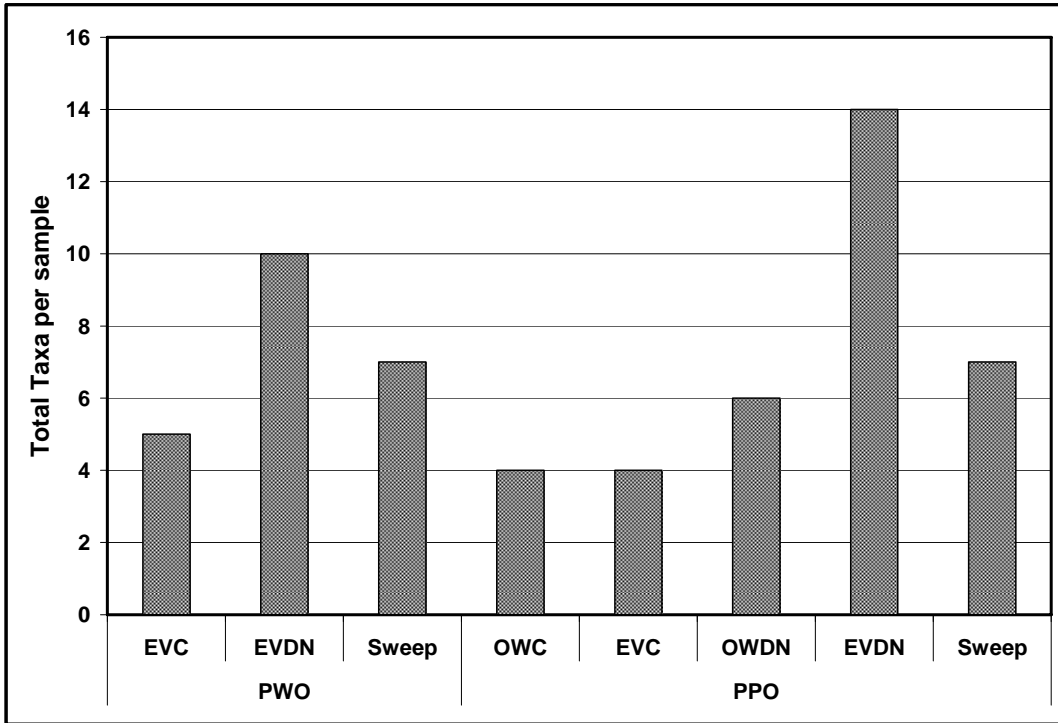


Figure 7

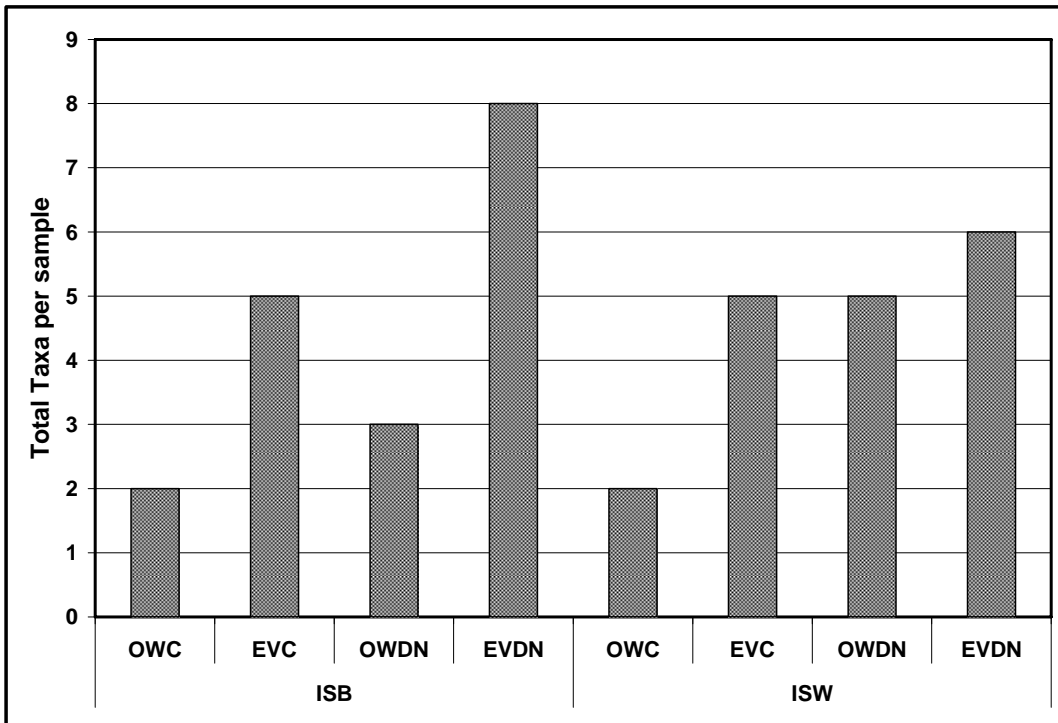


Figure 8

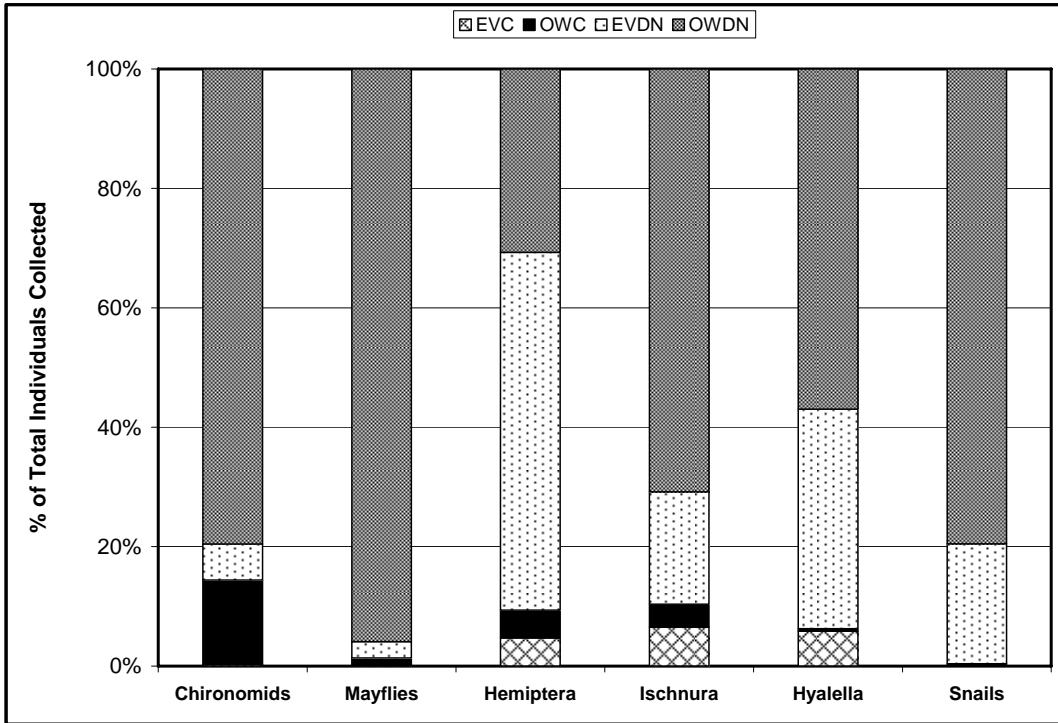


Figure 9

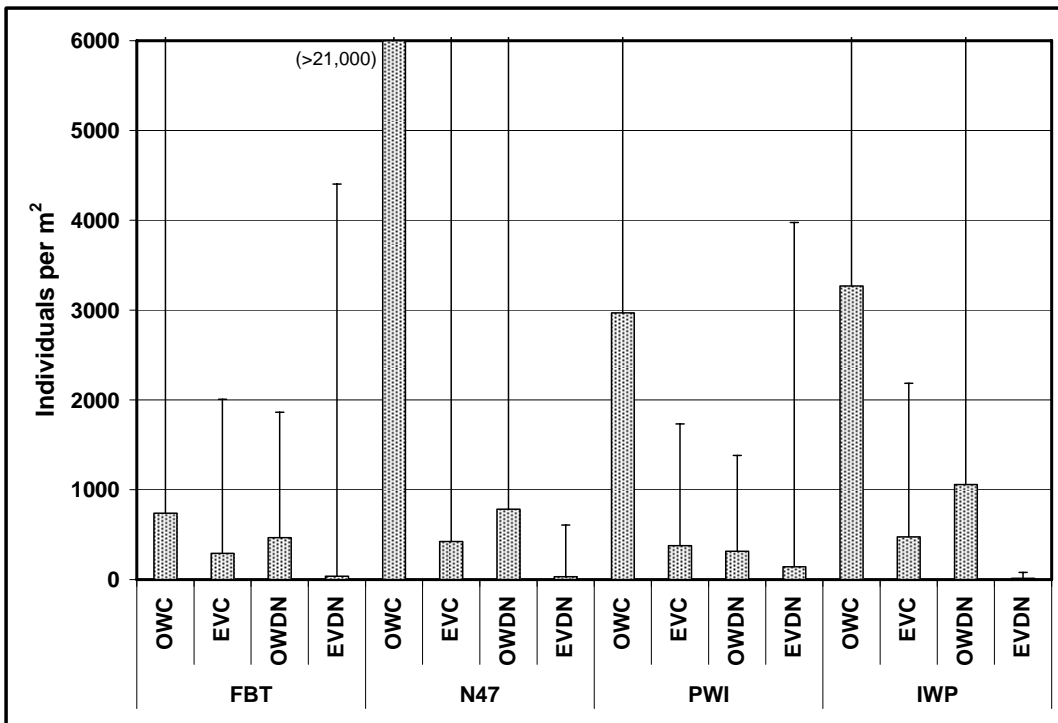


Figure 10

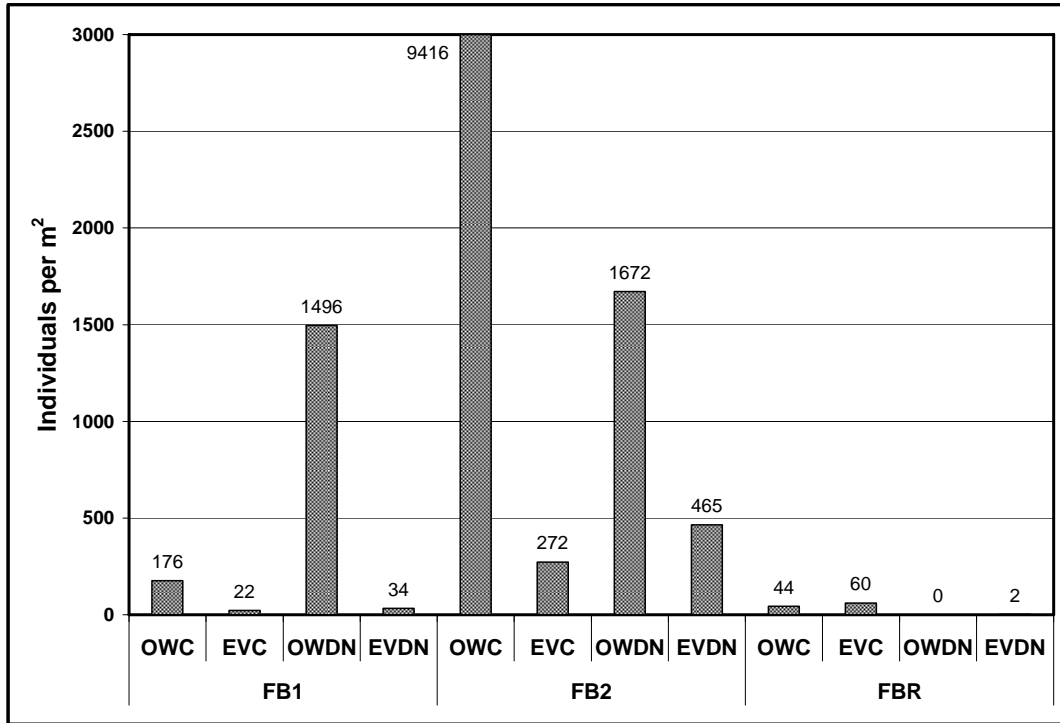


Figure 11

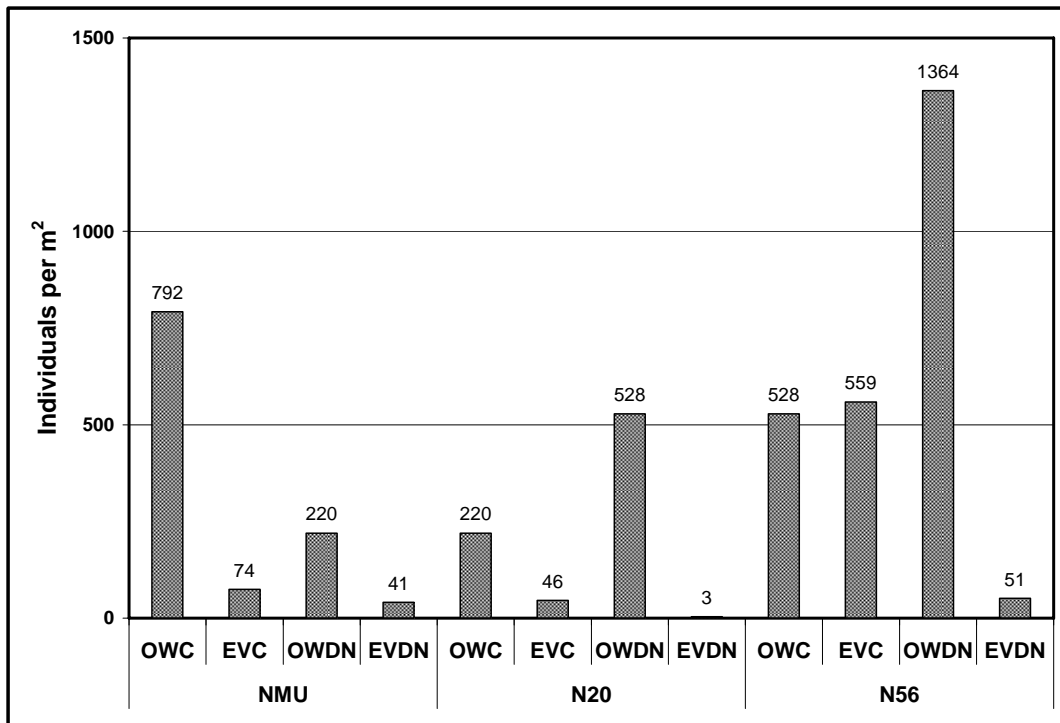


Figure 12

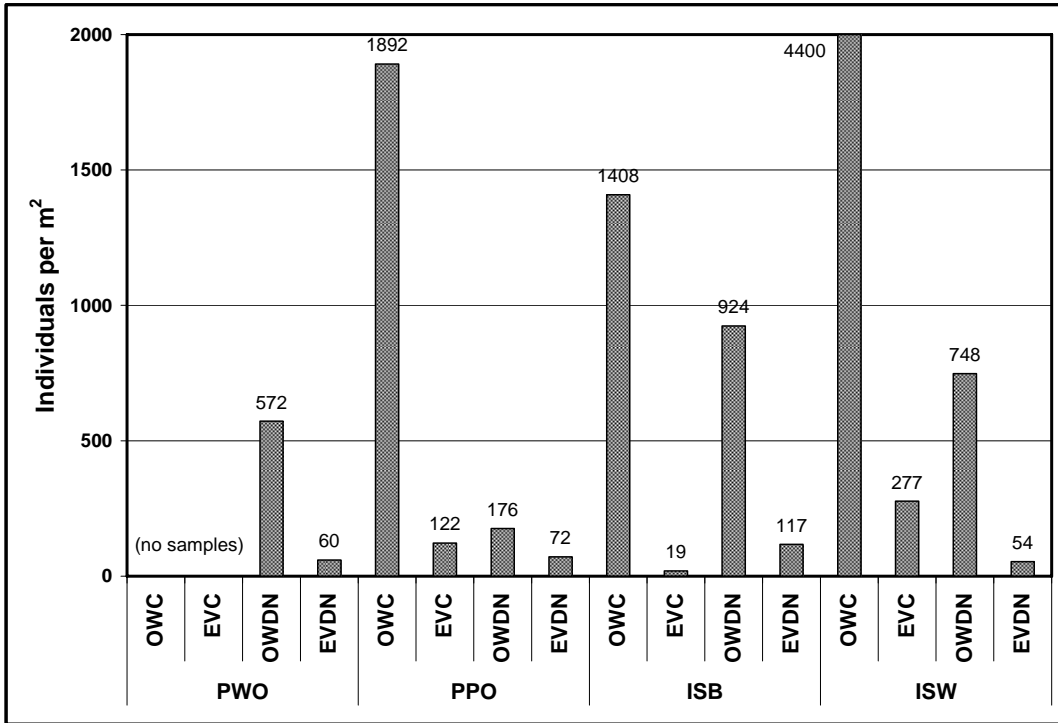


Figure 13

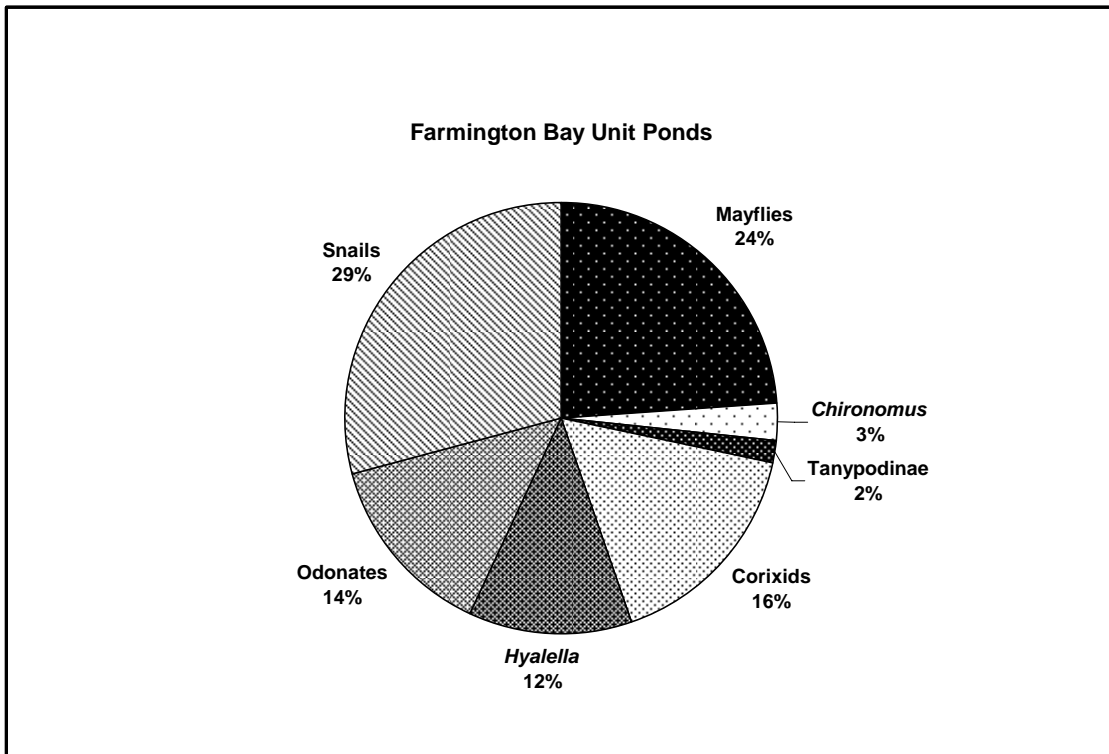


Figure 14

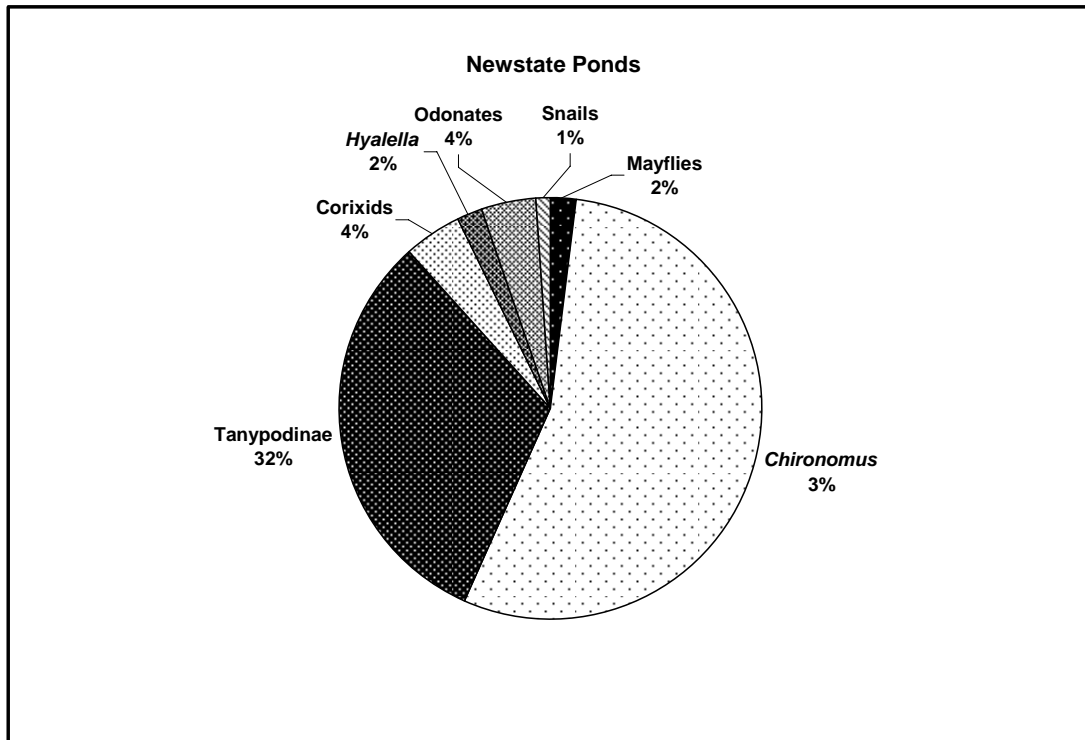


Figure 15

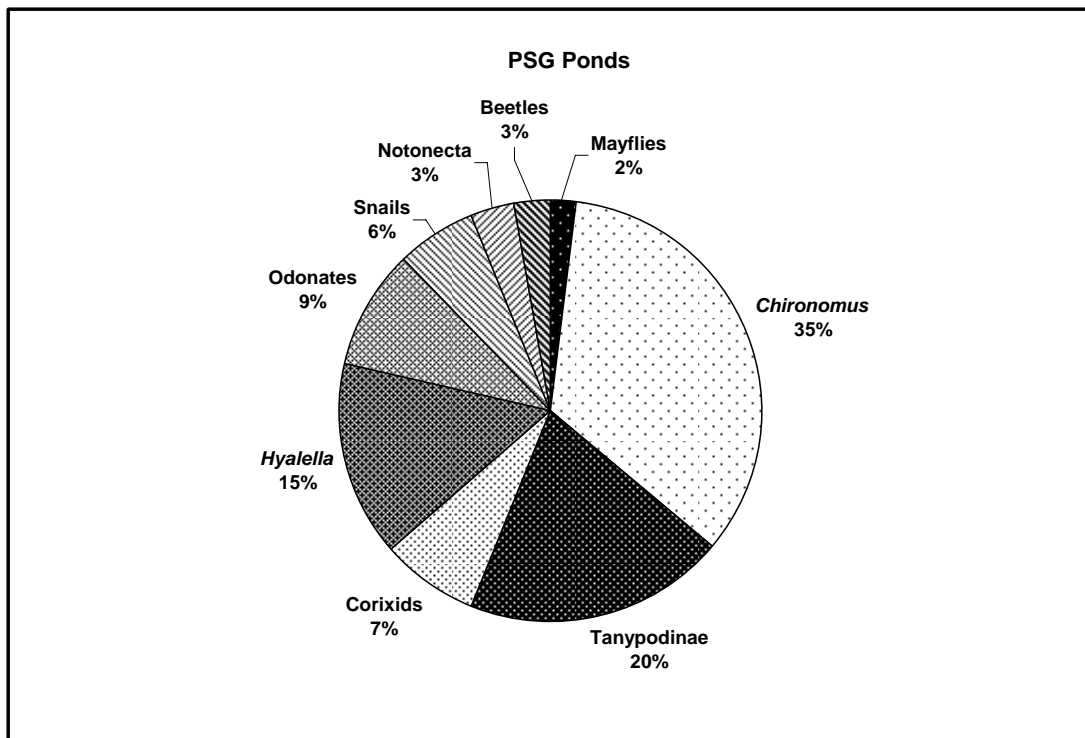


Figure 16

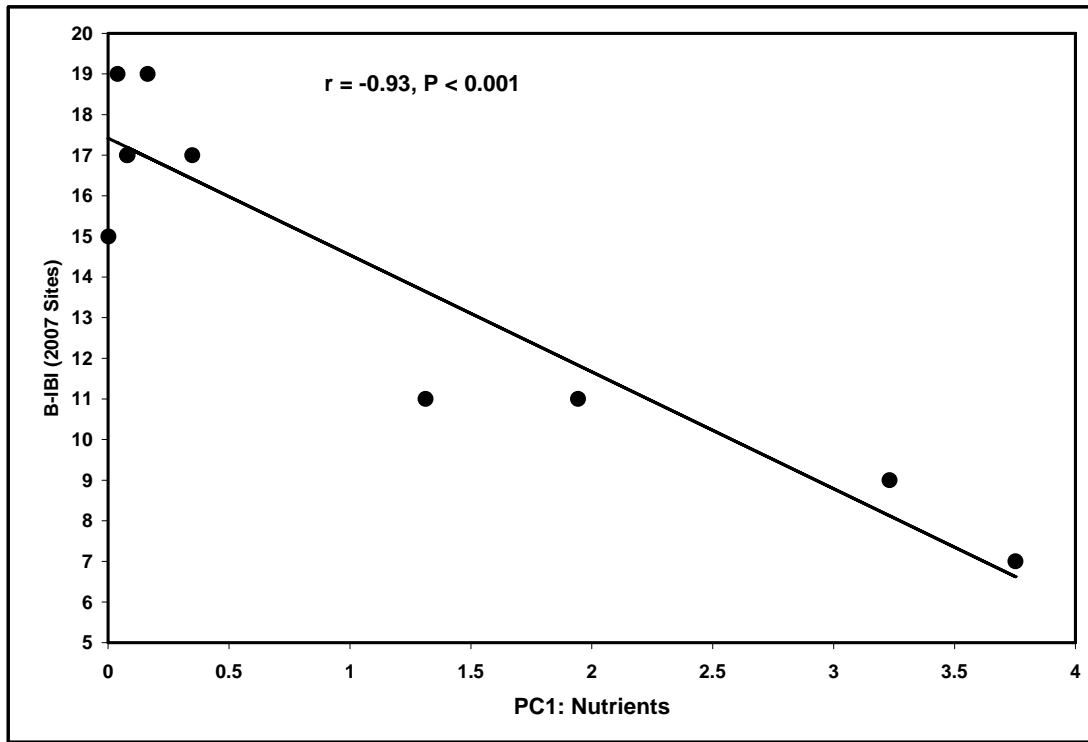
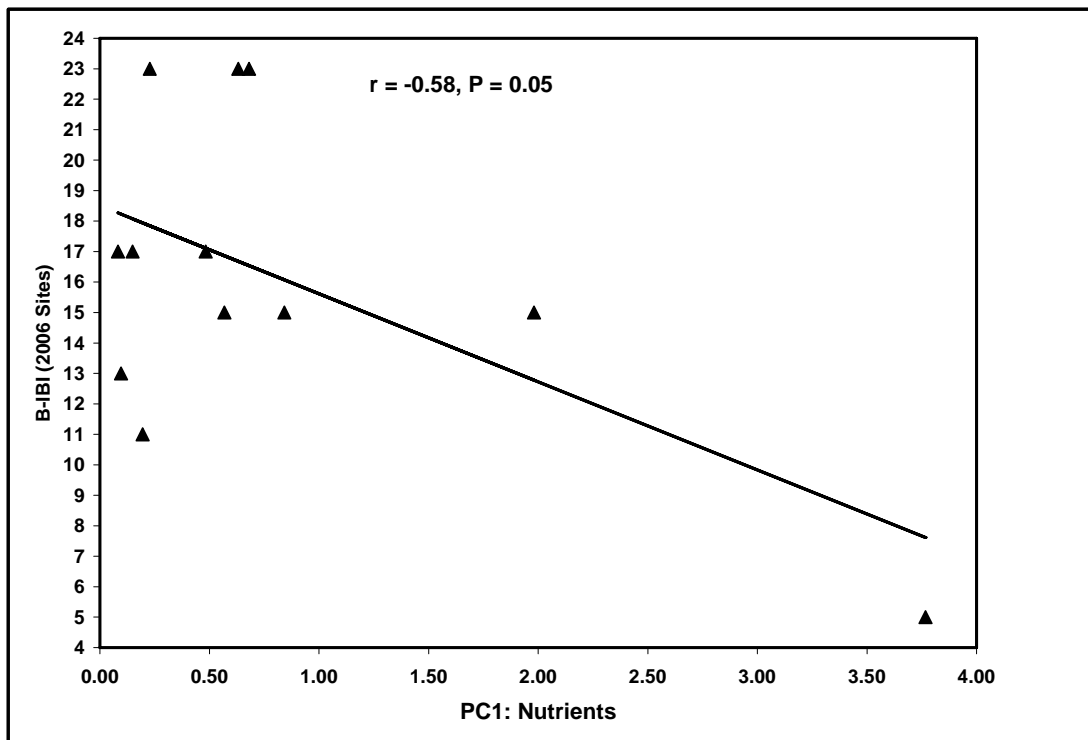


Figure 17



Tables

TABLE 1

| STORET | STORET Site Name | Site Code |
|---------------|---|------------------|
| | Area: Newstate Ponds | |
| 4985860 | Newstate Duck Club Middle Unit | NMU |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | N47 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | N20 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | N56 |
| | | |
| | Area: FB Unit Ponds | |
| 4985465 | IMPC Conservation Easement | FBR |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | FBT |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | FB2 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | FB1 |
| | | |
| | Area: ISSR Ponds | |
| 4985410 | Farmington Wetlands South West Pond South | ISW |
| 4985430 | Farmington Wetlands South B Pond | ISB |
| 4985440 | Farmington Wetlands West A Pond | IWP |
| | | |
| | Area: PSG Ponds | |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | PWO |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 Inflow | PWI |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | PPO |

TABLE 2

| | |
|---------------------------------|---------------------------------|
| Sample Code | EVC |
| Description | Emergent Vegetation Core |
| Sampler | 3" diameter PVC pipe |
| Sample Composition | composite of 5 cores |
| Area per sample, m ² | 228 cm ² |
| Samples/m ² | 44 |
| OWC | |
| Sample Code | OWC |
| Description | Open Water Core |
| Sampler | 3" diameter PVC pipe |
| Sample Composition | composite of 5 cores |
| Area per sample, m ² | 228 cm ² |
| Samples/m ² | 44 |
| EVDN | |
| Sample Code | EVDN |
| Description | Emergent Vegetation Dip Net |
| Sampler | 12" wide dip (kick) net |
| Sample Composition | composite of 5, 1-m long sweeps |
| Area per sample, m ² | 1.5 m ² |
| Samples/m ² | 0.67 |
| OWDN | |
| Sample Code | OWDN |
| Description | Open Water Dip Net |
| Sampler | 12" wide dip (kick) net |
| Sample Composition | composite of 5, 1-m long sweeps |
| Area per sample, m ² | 1.5 m ² |
| Samples/m ² | 0.67 |
| Sweep or Target | |
| Description | Sweep or Target |
| Sampler | 12" wide dip (kick) net |
| Sample Composition | qualitative sweep |
| Area per sample, m ² | varied |
| Samples/m ² | unknown |

TABLE 3

| Insecta | | | | Taxon | Trophic | |
|------------------|-----------------|----------------------|----------------------|--------------|-----------------|------------|
| Order | Family | Genus | Species | Code | Category | HBI |
| Ephemeroptera | Baetidae | <i>Callibaetis</i> | sp. | 273 | GC | 9 |
| | Caenidae | <i>Caenis</i> | sp. | 286 | GC | 7 |
| Trichoptera | Leptoceridae | <i>Ylodes</i> | sp. | 432 | SH | 8 |
| Odonata | Coenagrionidae | <i>Ischnura</i> | <i>spp.</i> | 350 | PR | 9 |
| | Aeshnidae | <i>Aeshna</i> | <i>californica</i> | 345 | PR | 5 |
| | Aeshnidae | <i>Anax</i> | sp. | anx | PR | 8 |
| | Libellulidae | <i>Erythemis</i> | <i>collocata</i> | 356 | PR | 8 |
| Hemiptera | Corixidae | <i>Corisella</i> | <i>inscripta</i> | 330 | PR | 10 |
| | Corixidae | <i>Trichocorixa</i> | <i>verticalis</i> | 330 | PR | 10 |
| | Corixidae | <i>Hesperocorixa</i> | <i>laevigata</i> | 330 | PH | 10 |
| | Notonectidae | <i>Notonecta</i> | <i>undulata</i> | 335 | PR | 10 |
| Diptera | Tipulidae | <i>Holorusia</i> | <i>hespera</i> | hol | SH | 4 |
| | Sciomyzidae | <i>Sepedon</i> | sp. | 243 | PR | 10 |
| | Ephydriidae | <i>Ephydra</i> | sp. | 235 | GC | 10 |
| | Tabanidae | | sp. | 249 | PR | 8 |
| | Chironomidae | <i>Chironomus</i> | sp. | 84 | GC | 10 |
| | Chironomidae | tribe Tanytarsini | sp. | 84 | GC | 6 |
| | Chironomidae | subfam. Tanypodinae | sp. | 89 | PR | 10 |
| Coleoptera | Dytiscidae | <i>Coptotomus</i> | sp. | cop | PR | 5 |
| | Dytiscidae | <i>Hydroporus</i> | sp. | hyd | PR | 5 |
| | Dytiscidae | <i>Hydaticus</i> | sp. | hyt | PR | 5 |
| | Hydrophilidae | <i>Enochrus</i> | sp. | eno | CG | 5 |
| | Halplidae | <i>Halplus</i> | sp. | 52 | SH | 7 |
| Crustacea | Hyaellidae | <i>Hyaella</i> | <i>azteca</i> | 489 | GC | 8 |
| | Artemiidae | <i>Artemia</i> | <i>franciscana</i> | art | FC | 8 |
| Mollusca | Physidae | <i>Physella</i> | sp. | 504 | SC | 8 |
| | Lymnaeidae | <i>Stagnicola</i> | sp. | 503 | SC | 10 |
| | Planorbidae | <i>Gyraulus</i> | sp. | 505 | SC | 8 |
| Annelida | Erpobdellidae | <i>Erpobdella</i> | <i>parva</i> complex | 1 | PR | 8 |
| | Glossiphoniidae | <i>Helobdella</i> | <i>stagnalis</i> | 3 | PR | 6 |
| Oligochaeta | Naididae | | sp. | 5 | GC | 10 |

| | |
|---------------------------|-------------------------|
| Trophic Categories | |
| SH = shredder | PR = predator |
| GC = gatherer-collector | FC = filterer-collector |
| PH = piercer-herbivore | |

TABLE 4

| Site | Salinity, ppt | NH₄, mg/L | NO₂ + NO₃, mg/L | Phosphorus, mg/L | pH | Dissolved Oxygen, mg/L | Chemistry Sample Dates, 2007 |
|-------------|----------------------|-----------------------------|--|-----------------------------|------------|---------------------------------------|---|
| FB1 | 1.13-1.42 | 0-0.05 | 0 | 0.091-0.201 | 8.80-9.54 | 11.34-21.53 | 8/21, 9/6, 10/3, 11/15 |
| FB2 | 0.86-0.89 | 0-0.05 | 0 | 0.600-1.03 | 8.50-9.16 | 9.73-20.3 | 8/21, 9/6, 10/3, 11/15 |
| FBR | 11.73-17.14 | 0.39 | 1.74 | 0.096 | 8.35-9.23 | 10.91-15.03 | 10/8, 11/21 |
| FBT | 1.00-1.04 | 0-0.09 | 0-0.34 | 0.621-0.935 | 8.69-9.31 | 15.74-22.52 | 8/21, 9/6, 10/3, 11/15 |
| ISB | 0.88-0.92 | 0.11 | 0.18 | 0.178 | 9.15-9.78 | 13.04-13.79 | 10/8, 11/7 |
| ISW | 8.68-10.89 | 0.05 | 0 | 0.080 | 9.02-9.19 | 9.52-13.47 | 10/8, 11/7 |
| IWP | 5.62-5.70 | 0.23 | 0 | 0.236 | 8.60-8.97 | 2.78-6.64 | 10/3, 10/5, 11/7 |
| N20 | 0.78-0.88 | 0-0.75 | 0-1.67 | 0.043-0.67 | 7.77-8.89 | 10.36-15.26 | 8/28, 10/24, 11/16 |
| N47 | 0.78-0.83 | 0.14-0.48 | 4.11-4.12 | 0.745-0.79 | 7.35-8.041 | 9.27-9.71 | 8/28, 10/26, 11/16 |
| N56 | 0.8-1.03 | 0.38 | 3.58 | 0.701 | 8.23-8.59 | 8.47-14.45 | 10/26, 11/21 |
| NMU | 0.95-1.12 | 1.11 | 0.57 | 0.664 | 8.38-8.67 | 5.37-9.78 | 10/24, 11/21 |
| PPO | 1.84-3.59 | 0 | 0 | 0.03-0.048 | 8.75-9.07 | 8.36-12.11 | 9/5, 10/3, 11/6 |
| PWI | 3.77 | 0-0.10 | 0 | 0-0.046 | 7.14 | 7.09 | 9/5, 10/3, 11/14 |
| PWO | 2.32-3.28 | 0-0.08 | 0 | 0-0.022 | 8.16-9.72 | 9.45-19.71 | 9/5, 10/3, 11/6 |

| TABLE 5 | | | | | |
|----------------|--------------------------------|---------------------------|--------------------|----------|-------------|
| | FB Unit + PSG Ponds | Newstate Ponds | | | |
| Taxon | number/sample | number/sample | Student's t | P | d.f. |
| Hyaella | 8.0 | 1.3 | 2.09 | 0.05 | 29 |
| Callibaetis** | 6.7 | 1.0 | 2.05 | 0.05 | 20 |
| Chironomus | 13.9 | 17.6 | -0.24 | 0.81 | 29 |
| Tanypodinae | 7.4 | 9.2 | -0.24 | 0.81 | 29 |
| Corixids | 4.0 | 3.4 | 0.29 | 0.77 | 29 |
| Odonates | 11.1 | 3.9 | 1.66 | 0.11 | 29 |
| All taxa | 198.2 | 130.4 | 0.74 | 0.47 | 29 |

**excludes PSG ponds

| TABLE 6 | | | | | |
|---------------------------|--------------------------------|---------------------------|--------------------|-------------|-----------|
| | FB Unit + PSG Ponds | Newstate Ponds | Student's t | P | df |
| Individuals/sample | 198 | 130 | 0.74 | 0.47 | 29 |
| Total Taxa | 8.2 | 6.2 | -2.23 | 0.03 | 29 |
| Shannon Diversity Index | 1.34 | 0.93 | -2.52 | 0.02 | 29 |
| Shannon Evenness | 0.64 | 0.51 | -1.84 | 0.06 | 29 |
| Simpson's Diversity Index | 3.49 | 2.25 | -2.19 | 0.04 | 28 |
| Simpson's Evenness | 0.44 | 0.37 | -0.88 | 0.39 | 28 |
| HBI | 9.04 | 9.44 | -1.82 | 0.08 | 29 |

TABLE 7

| Benthic Index of Biological Integrity (B-IBI) | Impaired | Somewhat Impaired | Unimpaired |
|--|--------------------|--------------------------|--------------------|
| Metric | (Score = 1) | (Score = 3) | (Score = 5) |
| Total Taxa | 8 or less | 9 - 11 | 12+ |
| Simpson's Diversity Index | <1.9 | 1.9 - 3.4 | >3.4 |
| Number of aquatic beetle taxa | 0 | 1 | 2+ |
| % Mayflies of total density | < 5% | 5% - 10% | >10% |
| % <i>Hyalella</i> of total density | < 5% | 5% - 10% | >10% |

TABLE 8

| | | Benthic Metric | | | | | Water Chemistry | | | | |
|------------------|-------------|-----------------------|---------------------------|-----------------------|------------|------------|------------------------|------------------------|--|---------|-------|
| 2007 data | Site | Total Taxa | Simpson's Diversity Index | Number of Beetle taxa | % Mayflies | % Hyalella | B-IBI Score | NH ₄ , mg/L | NO ₂ + NO ₃ , mg/L | P, mg/L | PC1 |
| | FB1 | 11 | 5.79 | 0 | 9.6% | 9.6% | 15 | 0.001 | 0.001 | 0.091 | 0.084 |
| | FB2 | 10 | 5.90 | 0 | 32.2% | 21.9% | 19 | 0.050 | 0.001 | 0.600 | 0.585 |
| | FBT | 14 | 2.37 | 1 | 15.3% | 0.9% | 17 | 0.090 | 0.340 | 0.621 | 0.913 |
| | N20 | 10 | 2.26 | 0 | 8.3% | 4.2% | 11 | 0.750 | 1.670 | 0.670 | 2.553 |
| | N47 | 11 | 1.33 | 0 | 0.0% | 0.6% | 7 | 0.480 | 4.120 | 0.790 | 4.471 |
| | N56 | 10 | 2.14 | 0 | 4.7% | 3.8% | 9 | 0.380 | 3.580 | 0.701 | 3.870 |
| | NMU | 11 | 3.99 | 0 | 1.9% | 1.3% | 11 | 1.110 | 0.570 | 0.664 | 1.917 |
| | PPO | 14 | 6.35 | 3 | 0.0% | 0.7% | 17 | 0.079 | 0.025 | 0.032 | 0.110 |
| | PWI | 15 | 3.23 | 2 | 0.7% | 22.9% | 19 | 0.215 | 0 | 0.096 | 0.251 |
| | PWO | 10 | 7.34 | 1 | 11.2% | 1.1% | 17 | 0.103 | 0 | 0.022 | 0.098 |
| | | | | | | | | | | | |
| 2006 data | Site | Total Taxa | Simpson's Diversity Index | Number of Beetle taxa | % Mayflies | % Hyalella | B-IBI Score | NH ₄ , mg/L | NO ₂ + NO ₃ , mg/L | P, mg/L | PC1 |
| | N47 | 11 | 5.20 | 0 | 0.8% | 27.2% | 15 | 0.18 | 0 | 0.8 | 0.865 |
| | N20 | 13 | 3.60 | 1 | 21.2% | 49.0% | 23 | 0.53 | 0 | 0.23 | 0.613 |
| | N56 | 11 | 4.50 | 0 | 0.0% | 18.4% | 15 | 0.1 | 0 | 0.56 | 0.586 |
| | FB1 | 11 | 2.50 | 3 | 0.0% | 13.4% | 17 | 0.09 | 0 | 0.088 | 0.149 |
| | FB2 | 3 | 1.10 | 0 | 0.0% | 0.0% | 5 | 1.21 | 2.03 | 1.06 | 3.554 |
| | FBT | 8 | 4.00 | 2 | 22.5% | 0.0% | 17 | 0 | 0 | 0.095 | 0.086 |
| | PPO | 8 | 3.30 | 1 | 28.4% | 0.0% | 13 | 0.08 | 0 | 0.036 | 0.094 |
| | PWI | 13 | 4.40 | 3 | 10.1% | 5.1% | 23 | 0.41 | 0 | 0.399 | 0.675 |
| | PWO | 8 | 2.70 | 0 | 10.1% | 0.0% | 11 | 0.2 | 0 | 0.037 | 0.186 |
| | AMB1 | 9 | 3.40 | 0 | 3.6% | 44.4% | 15 | 0.11 | 1.4 | 0.7 | 1.872 |
| | AMB2 | 14 | 6.40 | 1 | 29.8% | 10.1% | 23 | 0.2 | 0 | 0.075 | 0.220 |
| | AMB5 | 9 | 4.70 | 0 | 18.5% | 15.2% | 17 | 0.5 | 0 | 0.087 | 0.460 |

Appendix A

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--|-----------|--------|------------|----------------------|-------|
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | 330 | <i>Corisella</i> | 1 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | 356 | <i>Erythemis</i> | 2 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | 489 | <i>Hyaella</i> | 2 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | 350 | <i>Ischnura</i> | 29 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | 330 | <i>Corisella</i> | 14 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | 356 | <i>Erythemis</i> | 3 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | 330 | <i>Hesperocorixa</i> | 1 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | 489 | <i>Hyaella</i> | 7 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | 350 | <i>Ischnura</i> | 23 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | 504 | <i>Physella</i> | 1 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | 89 | Tanypodinae | 1 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | 286 | <i>Caenis</i> | 1 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | 350 | <i>Ischnura</i> | 2 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | 89 | Tanypodinae | 1 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | 286 | <i>Caenis</i> | 3 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | 273 | <i>Callibaetis</i> | 5 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 14 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | 505 | <i>Gyraulus</i> | 5 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | 489 | <i>Hyaella</i> | 1 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | 350 | <i>Ischnura</i> | 4 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | 89 | Tanypodinae | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--|-----------|--------|------------|----------------------|-------|
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | 273 | <i>Callibaetis</i> | 1 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | 84 | <i>Chironomus</i> | 11 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | 330 | <i>Corisella</i> | 2 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | 330 | <i>Hesperocorixa</i> | 3 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | 489 | <i>Hyaella</i> | 3 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | 350 | <i>Ischnura</i> | 18 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 345 | <i>Aeshna</i> | 4 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 273 | <i>Callibaetis</i> | 33 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 330 | <i>Corisella</i> | 185 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 356 | <i>Erythemis</i> | 1 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 330 | <i>Hesperocorixa</i> | 112 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 489 | <i>Hyaella</i> | 239 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 350 | <i>Ischnura</i> | 119 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | 504 | <i>Physella</i> | 1 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | 273 | <i>Callibaetis</i> | 12 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | 84 | <i>Chironomus</i> | 181 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | 489 | <i>Hyaella</i> | 10 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | 350 | <i>Ischnura</i> | 10 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | 89 | Tanypodinae | 1 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | 286 | <i>Caenis</i> | 10 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | 273 | <i>Callibaetis</i> | 101 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 209 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | 330 | <i>Corisella</i> | 1 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | 330 | <i>Hesperocorixa</i> | 10 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | 489 | <i>Hyaella</i> | 1 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | 350 | <i>Ischnura</i> | 74 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|-----------|--------|------------|----------------------|-------|
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | 330 | <i>Corisella</i> | 2 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | 330 | <i>Notonecta</i> | 1 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWC | 330 | <i>Corisella</i> | 1 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | 330 | <i>Corisella</i> | 85 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | 330 | <i>Notonecta</i> | 1 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | 330 | <i>Trichorixa</i> | 4 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVC | n/a | all taxa | 0 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | 356 | <i>Erythemis</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | 505 | <i>Gyraulus</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | 350 | <i>Ischnura</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | 356 | <i>Erythemis</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | 350 | <i>Ischnura</i> | 8 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | 504 | <i>Physella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | 356 | <i>Erythemis</i> | 3 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | 350 | <i>Ischnura</i> | 3 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | 504 | <i>Physella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | 330 | <i>Corisella</i> | 4 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | 356 | <i>Erythemis</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | 505 | <i>Gyraulus</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | 350 | <i>Ischnura</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | 504 | <i>Physella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | 330 | <i>Corisella</i> | 13 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | eno | <i>Enochrus</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | 356 | <i>Erythemis</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | 350 | <i>Ischnura</i> | 20 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | 504 | <i>Physella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | 286 | <i>Caenis</i> | 10 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|-----------|--------|------------|----------------------|-------|
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | 330 | <i>Corisella</i> | 24 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | 505 | <i>Gyraulus</i> | 346 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | 350 | <i>Ischnura</i> | 37 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | 504 | <i>Physella</i> | 22 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | 249 | Tabanidae | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | 286 | <i>Caenis</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | 273 | <i>Callibaetis</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | 84 | <i>Chironomus</i> | 8 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | 505 | <i>Gyraulus</i> | 3 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | 350 | <i>Ischnura</i> | 13 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | 504 | <i>Physella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | 89 | Tanypodinae | 5 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | 286 | <i>Caenis</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | 84 | <i>Chironomus</i> | 12 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | 356 | <i>Erythemis</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | 504 | <i>Physella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | 249 | Tabanidae | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | 89 | Tanypodinae | 4 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | 84 | <i>Chironomus</i> | 3 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | 330 | <i>Corisella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | 350 | <i>Ischnura</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 345 | <i>Aeshna</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 286 | <i>Caenis</i> | 247 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 273 | <i>Callibaetis</i> | 77 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 84 | <i>Chironomus</i> | 86 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 330 | <i>Corisella</i> | 3 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 356 | <i>Erythemis</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 505 | <i>Gyraulus</i> | 440 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|-----------|--------|------------|--------------------|-------|
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 489 | <i>Hyaella</i> | 21 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 350 | <i>Ischnura</i> | 55 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 504 | <i>Physella</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | 89 | Tanypodinae | 32 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 286 | <i>Caenis</i> | 6 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 273 | <i>Callibaetis</i> | 23 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 84 | <i>Chironomus</i> | 28 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 330 | <i>Corisella</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 356 | <i>Erythemis</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 505 | <i>Gyraulus</i> | 684 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 489 | <i>Hyaella</i> | 3 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 350 | <i>Ischnura</i> | 27 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 504 | <i>Physella</i> | 22 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | 89 | Tanypodinae | 29 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 286 | <i>Caenis</i> | 33 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 273 | <i>Callibaetis</i> | 17 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 84 | <i>Chironomus</i> | 19 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 330 | <i>Corisella</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 356 | <i>Erythemis</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 505 | <i>Gyraulus</i> | 234 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 350 | <i>Ischnura</i> | 47 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 504 | <i>Physella</i> | 37 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | 89 | Tanypodinae | 32 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | 286 | <i>Caenis</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | 273 | <i>Callibaetis</i> | 6 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | 330 | <i>Corisella</i> | 2 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | 356 | <i>Erythemis</i> | 1 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | 505 | <i>Gyraulus</i> | 280 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | 350 | <i>Ischnura</i> | 28 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | 504 | <i>Physella</i> | 12 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|----------------------------------|----------|--------|------------|----------------------|-------|
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | anx | <i>Anax</i> | 1 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | 330 | <i>Corisella</i> | 3 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | 330 | <i>Hesperocorixa</i> | 1 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | 489 | <i>Hyaella</i> | 5 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | 350 | <i>Ischnura</i> | 11 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 273 | <i>Callibaetis</i> | 5 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 330 | <i>Corisella</i> | 71 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 505 | <i>Gyraulius</i> | 1 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 330 | <i>Hesperocorixa</i> | 4 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 489 | <i>Hyaella</i> | 55 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 350 | <i>Ischnura</i> | 13 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 84 | Tanytarsini | 1 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | 330 | <i>Trichocorixa</i> | 25 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | 84 | <i>Chironomus</i> | 23 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | 84 | Tanytarsini | 9 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 4 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | 489 | <i>Hyaella</i> | 1 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | 84 | Tanytarsini | 24 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|----------|--------|------------|----------------------|-------|
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | 84 | <i>Chironomus</i> | 3 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | 330 | <i>Corisella</i> | 4 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | 249 | Tabanidae | 2 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | 89 | Tanypodinae | 6 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | 330 | <i>Trichocorixa</i> | 2 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | 84 | <i>Chironomus</i> | 5 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | 330 | <i>Corisella</i> | 9 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | 235 | <i>Ephydra</i> | 1 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | 330 | <i>Hesperocorixa</i> | 3 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | 89 | Tanypodinae | 3 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | 330 | <i>Trichocorixa</i> | 59 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | 89 | Tanypodinae | 97 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | 330 | <i>Trichocorixa</i> | 3 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | art | <i>Artemia</i> | 6 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 30 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | 330 | <i>Corisella</i> | 4 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | 89 | Tanypodinae | 360 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | 330 | <i>Trichocorixa</i> | 14 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---------------------------------|----------|--------|------------|----------------------|-------|
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | 350 | <i>Ischnura</i> | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | 249 | Tabanidae | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | 273 | <i>Callibaetis</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | 84 | <i>Chironomus</i> | 5 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | 330 | <i>Corisella</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | 350 | <i>Ischnura</i> | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | 330 | <i>Notonecta</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | 249 | Tabanidae | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | 89 | Tanypodinae | 4 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | 84 | <i>Chironomus</i> | 8 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | 350 | <i>Ischnura</i> | 4 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | 249 | Tabanidae | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | 330 | <i>Trichocorixa</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | 84 | <i>Chironomus</i> | 6 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | 330 | <i>Corisella</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | 350 | <i>Ischnura</i> | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | 330 | <i>Notonecta</i> | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | 249 | Tabanidae | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | 89 | Tanypodinae | 9 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | anx | <i>Anax</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | 84 | <i>Chironomus</i> | 7 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | 330 | <i>Corisella</i> | 4 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | 330 | <i>Hesperocorixa</i> | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | 489 | <i>Hyalella</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | 350 | <i>Ischnura</i> | 10 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | 89 | Tanypodinae | 12 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | 84 | <i>Chironomus</i> | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | 330 | <i>Corisella</i> | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | 330 | <i>Hesperocorixa</i> | 5 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | 89 | Tanypodinae | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---------------------------------|----------|----------|------------|----------------------|-------|
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | 84 | <i>Chironomus</i> | 6 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | 89 | Tanypodinae | 7 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | 84 | <i>Chironomus</i> | 90 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | 330 | <i>Corisella</i> | 10 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | 89 | Tanypodinae | 110 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | 84 | <i>Chironomus</i> | 90 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | 89 | Tanypodinae | 50 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | 84 | <i>Chironomus</i> | 90 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | 330 | <i>Corisella</i> | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | 350 | <i>Ischnura</i> | 30 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | 89 | Tanypodinae | 640 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | 84 | Tanytarsini | 10 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | 84 | <i>Chironomus</i> | 80 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | 350 | <i>Ischnura</i> | 20 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | 89 | Tanypodinae | 1560 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | 84 | <i>Chironomus</i> | 340 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | 350 | <i>Ischnura</i> | 100 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | 89 | Tanypodinae | 2620 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | anx | <i>Anax</i> | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 84 | <i>Chironomus</i> | 18 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 330 | <i>Corisella</i> | 32 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | eno | <i>Enochrus</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 330 | <i>Hesperocorixa</i> | 4 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 350 | <i>Ischnura</i> | 41 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 330 | <i>Notonecta</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 249 | Tabanidae | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 89 | Tanypodinae | 28 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 84 | Tanytarsini | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | 330 | <i>Trichocorixa</i> | 16 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---------------------------------|----------|----------|------------|---------------------|-------|
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 273 | <i>Callibaetis</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 84 | <i>Chironomus</i> | 13 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 330 | <i>Corisella</i> | 21 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 350 | <i>Ischnura</i> | 19 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 330 | <i>Notonecta</i> | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 249 | Tabanidae | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 89 | Tanypodinae | 47 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | 330 | <i>Trichocorixa</i> | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 84 | <i>Chironomus</i> | 21 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 330 | <i>Corisella</i> | 16 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 350 | <i>Ischnura</i> | 9 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 330 | <i>Notonecta</i> | 1 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 249 | Tabanidae | 11 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 89 | Tanypodinae | 44 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 84 | Tanytarsini | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | 330 | <i>Trichocorixa</i> | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|-----------|--------|------------|----------------------|-------|
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVC | 504 | <i>Physella</i> | 12 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVDN | 504 | <i>Physella</i> | 5 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | 84 | <i>Chironomus</i> | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | 504 | <i>Physella</i> | 2 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | 89 | Tanypodinae | 2 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 273 | <i>Callibaetis</i> | 6 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 4 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 330 | <i>Corisella</i> | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 356 | <i>Erythemis</i> | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 505 | <i>Gyraulus</i> | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 489 | <i>Hyaella</i> | 3 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 350 | <i>Ischnura</i> | 3 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 89 | Tanypodinae | 48 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | 84 | Tanytarsini | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 286 | <i>Caenis</i> | 19 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 273 | <i>Callibaetis</i> | 54 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | eno | <i>Enochrus</i> | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 356 | <i>Erythemis</i> | 15 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 505 | <i>Gyraulus</i> | 22 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 330 | <i>Hesperocorixa</i> | 7 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 489 | <i>Hyaella</i> | 24 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 350 | <i>Ischnura</i> | 92 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 330 | <i>Notonecta</i> | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 504 | <i>Physella</i> | 29 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | 84 | Tanytarsini | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|-----------|--------|------------|----------------------|-------|
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | 84 | <i>Chironomus</i> | 11 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | 330 | <i>Corisella</i> | 6 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | 489 | <i>Hyaella</i> | 15 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | 350 | <i>Ischnura</i> | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | 5 | <i>Oligochaeta</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | 249 | Tabanidae | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | 84 | <i>Chironomus</i> | 2 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | 1 | <i>Erpobdella</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | 489 | <i>Hyaella</i> | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 3 | 489 | <i>Hyaella</i> | 4 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 273 | <i>Callibaetis</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 84 | <i>Chironomus</i> | 33 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 330 | <i>Corisella</i> | 101 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 1 | <i>Erpobdella</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 356 | <i>Erythemis</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 489 | <i>Hyaella</i> | 26 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 350 | <i>Ischnura</i> | 4 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | 504 | <i>Physella</i> | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 273 | <i>Callibaetis</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 84 | <i>Chironomus</i> | 8 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 330 | <i>Corisella</i> | 18 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 356 | <i>Erythemis</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 505 | <i>Gyraulus</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 350 | <i>Ischnura</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 504 | <i>Physella</i> | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | 249 | Tabanidae | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|-----------|--------|------------|-------------------|-------|
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | 84 | <i>Chironomus</i> | 2 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | 330 | <i>Corisella</i> | 9 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | 505 | <i>Gyraulus</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | 3 | <i>Helobdella</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | 489 | <i>Hyalella</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | 504 | <i>Physella</i> | 4 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | 84 | <i>Chironomus</i> | 388 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | 5 | Oligochaeta | 62 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | 89 | Tanypodinae | 73 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | 84 | <i>Chironomus</i> | 440 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | 5 | Oligochaeta | 140 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | 89 | Tanypodinae | 10 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | 84 | <i>Chironomus</i> | 292 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | 5 | Oligochaeta | 91 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | 89 | Tanypodinae | 12 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | 84 | <i>Chironomus</i> | 1056 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | 330 | <i>Corisella</i> | 12 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | 356 | <i>Erythemis</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | 350 | <i>Ischnura</i> | 10 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | 5 | Oligochaeta | 60 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | 89 | Tanypodinae | 60 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | 84 | <i>Chironomus</i> | 435 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | 330 | <i>Corisella</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | 5 | Oligochaeta | 34 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | 89 | Tanypodinae | 40 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|-----------|--------|------------|--------------------|-------|
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | 84 | <i>Chironomus</i> | 2198 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | 330 | <i>Corisella</i> | 41 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | 5 | <i>Oligochaeta</i> | 240 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | 89 | Tanypodinae | 120 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 273 | <i>Callibaetis</i> | 2 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 84 | <i>Chironomus</i> | 14 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 330 | <i>Corisella</i> | 13 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 505 | <i>Gyraulus</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 489 | <i>Hyalella</i> | 6 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 350 | <i>Ischnura</i> | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 5 | <i>Oligochaeta</i> | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | 504 | <i>Physella</i> | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--|-----------|--------|------------|--------------------|-------|
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | 84 | <i>Chironomus</i> | 2 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | 356 | <i>Erythemis</i> | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | 489 | <i>Hyaella</i> | 8 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | 350 | <i>Ischnura</i> | 15 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | 504 | <i>Physella</i> | 5 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | 1 | <i>Erpobdella</i> | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | 489 | <i>Hyaella</i> | 34 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | 350 | <i>Ischnura</i> | 22 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | 504 | <i>Physella</i> | 18 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | 89 | Tanypodinae | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | 84 | <i>Chironomus</i> | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | 489 | <i>Hyaella</i> | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | 504 | <i>Physella</i> | 4 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | 89 | Tanypodinae | 6 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 273 | <i>Callibaetis</i> | 42 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 124 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 330 | <i>Corisella</i> | 2 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 1 | <i>Erpobdella</i> | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 356 | <i>Erythemis</i> | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 350 | <i>Ischnura</i> | 40 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 5 | Oligochaeta | 20 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 504 | <i>Physella</i> | 1 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | 89 | Tanypodinae | 603 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--------------------------------|-----------|--------|------------|----------------------|-------|
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | 504 | <i>Physella</i> | 3 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | 503 | <i>Stagnicola</i> | 2 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | 330 | <i>Corisella</i> | 7 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | 330 | <i>Hesperocorixa</i> | 29 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | 350 | <i>Ischnura</i> | 24 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | 504 | <i>Physella</i> | 1 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | 84 | <i>Chironomus</i> | 5 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | 350 | <i>Ischnura</i> | 1 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | 89 | Tanypodinae | 12 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 286 | <i>Caenis</i> | 1 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 273 | <i>Callibaetis</i> | 2 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 2 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 330 | <i>Corisella</i> | 10 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 489 | <i>Hyaella</i> | 2 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 350 | <i>Ischnura</i> | 7 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 5 | Oligochaeta | 4 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 89 | Tanypodinae | 73 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | 84 | Tanytarsini | 10 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--|----------|--------|------------|----------------------|-------|
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | 84 | <i>Chironomus</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | 504 | <i>Physella</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | 89 | Tanypodinae | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | 84 | Tanytarsini | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 84 | <i>Chironomus</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | cop | <i>Coptotomus</i> | 6 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 330 | <i>Corisella</i> | 4 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 356 | <i>Erythemis</i> | 3 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 330 | <i>Hesperocorixa</i> | 12 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | hol | <i>Holorusia</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 489 | <i>Hyalella</i> | 2 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | hyt | <i>Hydaticus</i> | 17 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | hyd | <i>Hydroporus</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 350 | <i>Ischnura</i> | 16 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 330 | <i>Notonecta</i> | 19 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 504 | <i>Physella</i> | 22 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 243 | <i>Sepedon</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | 89 | Tanypodinae | 2 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | 84 | <i>Chironomus</i> | 33 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | 330 | <i>Corisella</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | 350 | <i>Ischnura</i> | 5 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | 89 | Tanypodinae | 4 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | 84 | <i>Chironomus</i> | 50 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | 330 | <i>Corisella</i> | 14 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | 330 | <i>Hesperocorixa</i> | 12 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | 350 | <i>Ischnura</i> | 22 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | 330 | <i>Notonecta</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | 89 | Tanypodinae | 83 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------------|--|-------------|---------------|-------------------|--------------------|--------------|
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | 273 | <i>Callibaetis</i> | 10 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | 84 | <i>Chironomus</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | 330 | <i>Corisella</i> | 5 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | 356 | <i>Erythemis</i> | 1 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | 350 | <i>Ischnura</i> | 3 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | 330 | <i>Notonecta</i> | 8 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | 504 | <i>Physella</i> | 9 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--|-----------|--------|------------|----------------------|-------|
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | 84 | <i>Chironomus</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | 330 | <i>Corisella</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | 489 | <i>Hyaella</i> | 3 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | 489 | <i>Hyaella</i> | 9 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | 350 | <i>Ischnura</i> | 3 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | 330 | <i>Notonecta</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | 84 | <i>Chironomus</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | 330 | <i>Corisella</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | 356 | <i>Erythemis</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | 489 | <i>Hyaella</i> | 4 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | 84 | <i>Chironomus</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | 330 | <i>Corisella</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | 489 | <i>Hyaella</i> | 42 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | 89 | Tanypodinae | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 84 | <i>Chironomus</i> | 221 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 330 | <i>Corisella</i> | 3 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 52 | <i>Halipus</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 330 | <i>Hesperocorixa</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 489 | <i>Hyaella</i> | 77 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 350 | <i>Ischnura</i> | 3 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 330 | <i>Notonecta</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 249 | Tabanidae | 13 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | 89 | Tanypodinae | 63 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 3 | 84 | <i>Chironomus</i> | 378 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 3 | 330 | <i>Corisella</i> | 6 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 3 | 330 | <i>Hesperocorixa</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 3 | 489 | <i>Hyaella</i> | 93 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 3 | hyt | <i>Hydaticus</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 3 | 249 | Tabanidae | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--|-----------|--------|------------|--------------------|-------|
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 3 | 89 | Tanypodinae | 54 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 1 | 84 | <i>Chironomus</i> | 77 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 1 | 330 | <i>Corisella</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 1 | 489 | <i>Hyaella</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 1 | 89 | Tanypodinae | 87 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | 84 | <i>Chironomus</i> | 23 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | 330 | <i>Corisella</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | 489 | <i>Hyaella</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | 89 | Tanypodinae | 17 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 3 | 84 | <i>Chironomus</i> | 20 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 3 | 330 | <i>Corisella</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 3 | 350 | <i>Ischnura</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 3 | 89 | Tanypodinae | 20 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 273 | <i>Callibaetis</i> | 12 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 84 | <i>Chironomus</i> | 89 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 330 | <i>Corisella</i> | 20 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 52 | <i>Haliphus</i> | 11 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 489 | <i>Hyaella</i> | 13 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 350 | <i>Ischnura</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 5 | Oligochaeta | 10 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 504 | <i>Physella</i> | 33 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 249 | Tabanidae | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 1 | 89 | Tanypodinae | 79 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 273 | <i>Callibaetis</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 84 | <i>Chironomus</i> | 195 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 330 | <i>Corisella</i> | 9 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 52 | <i>Haliphus</i> | 10 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 489 | <i>Hyaella</i> | 312 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 350 | <i>Ischnura</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 5 | Oligochaeta | 21 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|--|-----------|--------|------------|----------------------|-------|
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 504 | <i>Physella</i> | 44 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | 89 | Tanypodinae | 95 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 273 | <i>Callibaetis</i> | 4 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 84 | <i>Chironomus</i> | 257 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 330 | <i>Corisella</i> | 14 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 505 | <i>Gyraulus</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 489 | <i>Hyalella</i> | 23 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | hyt | <i>Hydaticus</i> | 2 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 350 | <i>Ischnura</i> | 3 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 504 | <i>Physella</i> | 23 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 89 | Tanypodinae | 224 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | 432 | <i>Ylodes</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | 273 | <i>Callibaetis</i> | 1 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | 330 | <i>Corisella</i> | 102 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | 330 | <i>Hesperocorixa</i> | 11 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | 330 | <i>Notonecta</i> | 149 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | 504 | <i>Physella</i> | 101 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | 249 | Tabanidae | 1 |

| STORET | SITE | DATE | SAMPLE | TAXON CODE | TAXON | COUNT |
|---------|---|----------|--------|------------|----------------------|-------|
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | 84 | <i>Chironomus</i> | 6 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | 356 | <i>Erythemis</i> | 1 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | 350 | <i>Ischnura</i> | 1 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | 89 | Tanypodinae | 3 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | 84 | Tanytarsini | 2 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 273 | <i>Callibaetis</i> | 10 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | cop | <i>Coptotomus</i> | 2 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 330 | <i>Corisella</i> | 5 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 356 | <i>Erythemis</i> | 14 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 330 | <i>Hesperocorixa</i> | 12 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 489 | <i>Hyaella</i> | 1 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 350 | <i>Ischnura</i> | 21 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 330 | <i>Notonecta</i> | 11 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 504 | <i>Physella</i> | 11 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | 249 | Tabanidae | 2 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | 273 | <i>Callibaetis</i> | 1 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | cop | <i>Coptotomus</i> | 1 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | 330 | <i>Corisella</i> | 82 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | 330 | <i>Hesperocorixa</i> | 11 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | 350 | <i>Ischnura</i> | 4 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | 330 | <i>Notonecta</i> | 102 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | 89 | Tanypodinae | 63 |

Appendix B

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|--|-------------|------------------------------|---------------------------|--------------|
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | HBI Index | 8.91 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | Total Taxa | 4 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | Shannon Diversity Index | 0.57 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | Shannon Evenness | 0.41 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | Simpson's Diversity Index | 1.38 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVC | Simpson's Evenness | 0.34 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | HBI Index | 9.02 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | Total Taxa | 7 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | Shannon Diversity Index | 1.39 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | Shannon Evenness | 0.72 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | Simpson's Diversity Index | 3.33 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | EVDN | Simpson's Evenness | 0.48 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | HBI Index | 7.75 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | Total Taxa | 3 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | Shannon Diversity Index | 1.04 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | Shannon Evenness | 0.95 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | Simpson's Diversity Index | 6.00 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWC | Simpson's Evenness | 2.00 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | HBI Index | 8.97 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | Total Taxa | 7 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | Shannon Diversity Index | 1.62 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | Shannon Evenness | 0.83 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | Simpson's Diversity Index | 4.40 |
| 4985520 | Farmington Wetlands FBWMA Unit 1 Outfall | 15-Nov-07 | OWDN | Simpson's Evenness | 0.63 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|--|-------------|------------------------------|---------------------------|--------------|
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | HBI Index | 9.34 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | Total Taxa | 6 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | Shannon Diversity Index | 1.36 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | Shannon Evenness | 0.76 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | Simpson's Diversity Index | 3.27 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVC | Simpson's Evenness | 0.54 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | HBI Index | 9.06 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | Total Taxa | 8 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | Shannon Diversity Index | 1.51 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | Shannon Evenness | 0.73 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | Simpson's Diversity Index | 4.06 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | EVDN | Simpson's Evenness | 0.51 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | HBI Index | 9.79 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | Total Taxa | 5 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | Shannon Diversity Index | 0.61 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | Shannon Evenness | 0.38 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | Simpson's Diversity Index | 1.39 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWC | Simpson's Evenness | 0.28 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | HBI Index | 9.49 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | Total Taxa | 7 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | Shannon Diversity Index | 1.21 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | Shannon Evenness | 0.62 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | Simpson's Diversity Index | 2.78 |
| 4985500 | Farmington Wetlands FBWMA Unit 2 Outfall | 15-Nov-07 | OWDN | Simpson's Evenness | 0.40 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|----------------------------|-------------|------------------------------|---------------------------|--------------|
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | HBI Index | 10.00 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | Total Taxa | 2 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | Shannon Diversity Index | 0.64 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | Shannon Evenness | 0.92 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | Simpson's Diversity Index | 3.00 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | EVDN | Simpson's Evenness | 1.50 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWC | HBI Index | 10.00 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWC | Total Taxa | 1 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWC | Shannon Diversity Index | 0.00 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWC | Shannon Evenness | 0.00 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWC | Simpson's Diversity Index | nd |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWC | Simpson's Evenness | nd |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | HBI Index | 10.00 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | Total Taxa | 5 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | Shannon Diversity Index | 0.40 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | Shannon Evenness | 0.25 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | Simpson's Diversity Index | 1.12 |
| 4985465 | IMPC Conservation Easement | 21-Nov-07 | OWDN | Simpson's Evenness | 0.37 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | HBI Index | 8.33 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | Total Taxa | 3 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | Shannon Diversity Index | 1.10 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | Shannon Evenness | 1.00 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | Simpson's Diversity Index | nd |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 1 | Simpson's Evenness | nd |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | HBI Index | 8.83 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | Total Taxa | 4 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | Shannon Diversity Index | 0.98 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | Shannon Evenness | 0.71 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | Simpson's Diversity Index | 2.28 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 2 | Simpson's Evenness | 0.57 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | HBI Index | 8.63 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | Total Taxa | 4 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | Shannon Diversity Index | 1.26 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | Shannon Evenness | 0.91 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | Simpson's Diversity Index | 4.67 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVC 3 | Simpson's Evenness | 1.17 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | HBI Index | 8.90 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | Total Taxa | 5 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | Shannon Diversity Index | 1.47 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | Shannon Evenness | 0.91 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | Simpson's Diversity Index | 5.63 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 1 | Simpson's Evenness | 1.13 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | HBI Index | 9.11 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | Total Taxa | 6 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | Shannon Diversity Index | 1.15 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | Shannon Evenness | 0.64 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | Simpson's Diversity Index | 2.61 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 2 | Simpson's Evenness | 0.44 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | HBI Index | 8.17 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | Total Taxa | 7 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | Shannon Diversity Index | 0.82 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | Shannon Evenness | 0.42 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | Simpson's Diversity Index | 1.59 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | EVDN 3 | Simpson's Evenness | 0.23 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | HBI Index | 9.15 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | Total Taxa | 7 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | Shannon Diversity Index | 1.64 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | Shannon Evenness | 0.84 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | Simpson's Diversity Index | 4.64 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 1 | Simpson's Evenness | 0.66 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | HBI Index | 9.55 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | Total Taxa | 6 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | Shannon Diversity Index | 1.23 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | Shannon Evenness | 0.69 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | Simpson's Diversity Index | 2.64 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 2 | Simpson's Evenness | 0.44 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | HBI Index | 9.71 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | Total Taxa | 4 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | Shannon Diversity Index | 1.28 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | Shannon Evenness | 0.92 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | Simpson's Diversity Index | 5.25 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWC 3 | Simpson's Evenness | 1.31 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | HBI Index | 8.13 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | Total Taxa | 11 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | Shannon Diversity Index | 1.53 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | Shannon Evenness | 0.64 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | Simpson's Diversity Index | 3.43 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 1 | Simpson's Evenness | 0.31 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | HBI Index | 8.19 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | Total Taxa | 10 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | Shannon Diversity Index | 0.78 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | Shannon Evenness | 0.34 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | Simpson's Diversity Index | 1.45 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 2 | Simpson's Evenness | 0.14 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | HBI Index | 8.02 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | Total Taxa | 9 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | Shannon Diversity Index | 1.50 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | Shannon Evenness | 0.68 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | Simpson's Diversity Index | 2.94 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 15-Nov-07 | OWDN 3 | Simpson's Evenness | 0.33 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | HBI Index | 8.11 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | Total Taxa | 7 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | Shannon Diversity Index | 0.62 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | Shannon Evenness | 0.32 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | Simpson's Diversity Index | 1.38 |
| 4985515 | FBWMA Turpin Unit above 7th Culver Transect 1 | 16-Sep-07 | Sweep | Simpson's Evenness | 0.20 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|----------------------------------|-------------|------------------------------|---------------------------|--------------|
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | HBI Index | 8.90 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | Total Taxa | 5 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | Shannon Diversity Index | 1.25 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | Shannon Evenness | 0.78 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | Simpson's Diversity Index | 3.09 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVC | Simpson's Evenness | 0.62 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | HBI Index | 9.23 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | Total Taxa | 8 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | Shannon Diversity Index | 1.45 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | Shannon Evenness | 0.70 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | Simpson's Diversity Index | 3.49 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | EVDN | Simpson's Evenness | 0.44 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | HBI Index | 8.88 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | Total Taxa | 2 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | Shannon Diversity Index | 0.59 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | Shannon Evenness | 0.86 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | Simpson's Diversity Index | 1.72 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWC | Simpson's Evenness | 0.86 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | HBI Index | 6.62 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | Total Taxa | 3 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | Shannon Diversity Index | 0.55 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | Shannon Evenness | 0.50 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | Simpson's Diversity Index | 1.44 |
| 4985430 | Farmington Wetlands South B Pond | 7-Nov-07 | OWDN | Simpson's Evenness | 0.48 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | HBI Index | 9.76 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | Total Taxa | 5 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | Shannon Diversity Index | 1.52 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | Shannon Evenness | 0.94 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | Simpson's Diversity Index | 5.23 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVC | Simpson's Evenness | 1.05 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | HBI Index | 10.00 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | Total Taxa | 6 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | Shannon Diversity Index | 0.94 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | Shannon Evenness | 0.53 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | Simpson's Diversity Index | 1.79 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | EVDN | Simpson's Evenness | 0.30 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | HBI Index | 10.00 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | Total Taxa | 2 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | Shannon Diversity Index | 0.13 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | Shannon Evenness | 0.19 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | Simpson's Diversity Index | 1.06 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWC | Simpson's Evenness | 0.53 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | HBI Index | 10.00 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | Total Taxa | 5 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | Shannon Diversity Index | 0.53 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | Shannon Evenness | 0.33 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | Simpson's Diversity Index | 1.31 |
| 4985410 | Farmington Wetlands South West Pond South | 7-Nov-07 | OWDN | Simpson's Evenness | 0.26 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---------------------------------|-------------|------------------------------|---------------------------|--------------|
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | HBI Index | 8.50 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | Total Taxa | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | Shannon Diversity Index | 0.69 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | Shannon Evenness | 1.00 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | Simpson's Diversity Index | 2.50 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 1 | Simpson's Evenness | 1.25 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | HBI Index | 9.67 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | Total Taxa | 7 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | Shannon Diversity Index | 1.71 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | Shannon Evenness | 0.88 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | Simpson's Diversity Index | 6.18 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 2 | Simpson's Evenness | 0.88 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | HBI Index | 9.57 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | Total Taxa | 4 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | Shannon Diversity Index | 1.05 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | Shannon Evenness | 0.76 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | Simpson's Diversity Index | 2.68 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVC 3 | Simpson's Evenness | 0.67 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | HBI Index | 9.81 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | Total Taxa | 6 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | Shannon Diversity Index | 1.46 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | Shannon Evenness | 0.81 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | Simpson's Diversity Index | 3.96 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 1 | Simpson's Evenness | 0.66 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | HBI Index | 9.63 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | Total Taxa | 7 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | Shannon Diversity Index | 1.66 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---------------------------------|-------------|------------------------------|---------------------------|--------------|
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | Shannon Evenness | 0.85 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | Simpson's Diversity Index | 4.99 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 2 | Simpson's Evenness | 0.71 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | HBI Index | 10.00 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | Total Taxa | 4 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | Shannon Diversity Index | 1.24 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | Shannon Evenness | 0.89 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | Simpson's Diversity Index | 3.93 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | EVDN 3 | Simpson's Evenness | 0.98 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | HBI Index | 10.00 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | Total Taxa | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | Shannon Diversity Index | 0.69 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | Shannon Evenness | 1.00 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | Simpson's Diversity Index | 2.17 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 1 | Simpson's Evenness | 1.08 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | HBI Index | 10.00 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | Total Taxa | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | Shannon Diversity Index | 0.85 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | Shannon Evenness | 0.77 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | Simpson's Diversity Index | 2.18 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 2 | Simpson's Evenness | 0.73 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | HBI Index | 10.00 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | Total Taxa | 2 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | Shannon Diversity Index | 0.65 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | Shannon Evenness | 0.94 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | Simpson's Diversity Index | 1.86 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWC 3 | Simpson's Evenness | 0.93 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---------------------------------|-------------|------------------------------|---------------------------|--------------|
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | HBI Index | 9.96 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | Total Taxa | 5 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | Shannon Diversity Index | 0.60 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | Shannon Evenness | 0.38 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | Simpson's Diversity Index | 1.42 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 1 | Simpson's Evenness | 0.28 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | HBI Index | 9.99 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | Total Taxa | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | Shannon Diversity Index | 0.26 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | Shannon Evenness | 0.23 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | Simpson's Diversity Index | 1.13 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 2 | Simpson's Evenness | 0.38 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | HBI Index | 9.97 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | Total Taxa | 3 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | Shannon Diversity Index | 0.49 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | Shannon Evenness | 0.44 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | Simpson's Diversity Index | 1.34 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | OWDN 3 | Simpson's Evenness | 0.45 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | HBI Index | 9.54 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | Total Taxa | 11 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | Shannon Diversity Index | 1.87 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | Shannon Evenness | 0.78 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | Simpson's Diversity Index | 5.57 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 1 | Simpson's Evenness | 0.51 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | HBI Index | 9.76 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | Total Taxa | 8 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | Shannon Diversity Index | 1.55 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---------------------------------|-------------|----------------------------------|---------------------------|--------------|
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | Shannon Evenness | 0.75 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | Simpson's Diversity Index | 3.80 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 2 | Simpson's Evenness | 0.48 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | HBI Index | 9.59 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | Total Taxa | 8 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | Shannon Diversity Index | 1.60 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | Shannon Evenness | 0.77 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | Simpson's Diversity Index | 4.06 |
| 4985440 | Farmington Wetlands West A Pond | 7-Nov-07 | Target 3 | Simpson's Evenness | 0.51 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVC | HBI Index | 8.00 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVC | Total Taxa | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVC | Shannon Diversity Index | 0.00 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVC | Shannon Evenness | 0.00 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVC | Simpson's Diversity Index | nd |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVC | Simpson's Evenness | nd |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVDN | HBI Index | 8.00 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVDN | Total Taxa | 1 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVDN | Shannon Diversity Index | 0.00 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVDN | Shannon Evenness | 0.00 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVDN | Simpson's Diversity Index | nd |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | EVDN | Simpson's Evenness | nd |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | HBI Index | 8.27 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | Total Taxa | 3 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | Shannon Diversity Index | 1.05 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | Shannon Evenness | 0.96 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | Simpson's Diversity Index | 5.00 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWC | Simpson's Evenness | 1.67 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | HBI Index | 9.66 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | Total Taxa | 9 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | Shannon Diversity Index | 1.15 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | Shannon Evenness | 0.52 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | Simpson's Diversity Index | 1.97 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 16-Nov-07 | OWDN | Simpson's Evenness | 0.22 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | HBI Index | 8.52 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | Total Taxa | 11 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | Shannon Diversity Index | 1.87 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | Shannon Evenness | 0.78 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | Simpson's Diversity Index | 5.12 |
| 4985880 | GSL Wetlands Newstate Duck Club Pond 20 | 28-Aug-07 | Sweep | Simpson's Evenness | 0.47 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | HBI Index | 9.05 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | Total Taxa | 10 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | Shannon Diversity Index | 1.42 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | Shannon Evenness | 0.79 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | Simpson's Diversity Index | 3.74 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 1 | Simpson's Evenness | 0.62 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | HBI Index | 8.67 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | Total Taxa | 4 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | Shannon Diversity Index | 1.01 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | Shannon Evenness | 0.92 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | Simpson's Diversity Index | 3.75 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 2 | Simpson's Evenness | 1.25 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 3 | HBI Index | 8.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 3 | Total Taxa | 1 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 3 | Shannon Diversity Index | 0.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 3 | Shannon Evenness | 0.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 3 | Simpson's Diversity Index | nd |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVC 3 | Simpson's Evenness | nd |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | HBI Index | 9.61 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | Total Taxa | 9 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | Shannon Diversity Index | 1.19 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | Shannon Evenness | 0.54 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | Simpson's Diversity Index | 2.46 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 1 | Simpson's Evenness | 0.27 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | HBI Index | 9.59 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | Total Taxa | 8 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | Shannon Diversity Index | 1.41 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | Shannon Evenness | 0.68 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | Simpson's Diversity Index | 3.05 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 2 | Simpson's Evenness | 0.38 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | HBI Index | 9.11 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | Total Taxa | 6 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | Shannon Diversity Index | 1.41 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | Shannon Evenness | 0.79 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | Simpson's Diversity Index | 3.56 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | EVDN 3 | Simpson's Evenness | 0.59 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | HBI Index | 10.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | Total Taxa | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | Shannon Diversity Index | 0.75 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | Shannon Evenness | 0.68 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | Simpson's Diversity Index | 4.89 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 1 | Simpson's Evenness | 0.54 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | HBI Index | 10.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | Total Taxa | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | Shannon Diversity Index | 0.63 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | Shannon Evenness | 0.57 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | Simpson's Diversity Index | 1.63 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 2 | Simpson's Evenness | 0.54 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | HBI Index | 10.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | Total Taxa | 3 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | Shannon Diversity Index | 0.67 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|---|-------------|------------------------------|---------------------------|--------------|
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | Shannon Evenness | 0.61 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | Simpson's Diversity Index | 1.67 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWC 3 | Simpson's Evenness | 0.56 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | HBI Index | 9.99 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | Total Taxa | 6 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | Shannon Diversity Index | 0.50 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | Shannon Evenness | 0.28 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | Simpson's Diversity Index | 1.28 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 1 | Simpson's Evenness | 0.21 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | HBI Index | 10.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | Total Taxa | 4 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | Shannon Diversity Index | 0.53 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | Shannon Evenness | 0.38 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | Simpson's Diversity Index | 1.36 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 2 | Simpson's Evenness | 0.34 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | HBI Index | 10.00 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | Total Taxa | 4 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | Shannon Diversity Index | 0.57 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | Shannon Evenness | 0.41 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | Simpson's Diversity Index | 1.38 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 16-Nov-07 | OWDN 3 | Simpson's Evenness | 0.34 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | HBI Index | 9.49 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | Total Taxa | 8 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | Shannon Diversity Index | 1.62 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | Shannon Evenness | 0.78 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | Simpson's Diversity Index | 3.96 |
| 4985870 | GSL Wetlands Newstate Duck Club Pond 47 | 28-Aug-07 | Sweep | Simpson's Evenness | 0.57 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|--|-------------|------------------------------|---------------------------|--------------|
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | HBI Index | 8.61 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | Total Taxa | 5 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | Shannon Diversity Index | 1.28 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | Shannon Evenness | 0.80 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | Simpson's Diversity Index | 3.23 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVC | Simpson's Evenness | 0.65 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | HBI Index | 8.32 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | Total Taxa | 5 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | Shannon Diversity Index | 1.17 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | Shannon Evenness | 0.73 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | Simpson's Diversity Index | 3.02 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | EVDN | Simpson's Evenness | 0.60 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | HBI Index | 9.17 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | Total Taxa | 4 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | Shannon Diversity Index | 1.13 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | Shannon Evenness | 0.81 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | Simpson's Diversity Index | 3.14 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWC | Simpson's Evenness | 0.79 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | HBI Index | 9.89 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | Total Taxa | 9 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | Shannon Diversity Index | 0.94 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | Shannon Evenness | 0.43 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | Simpson's Diversity Index | 1.82 |
| 4985890 | GSL Wetlands Newstate Duck Club Unit 5-6 | 21-Nov-07 | OWDN | Simpson's Evenness | 0.20 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|--------------------------------|-------------|------------------------------|---------------------------|--------------|
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | HBI Index | 8.80 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | Total Taxa | 2 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | Shannon Diversity Index | 0.67 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | Shannon Evenness | 0.97 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | Simpson's Diversity Index | 2.50 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVC | Simpson's Evenness | 1.25 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | HBI Index | 9.57 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | Total Taxa | 4 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | Shannon Diversity Index | 1.04 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | Shannon Evenness | 0.75 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | Simpson's Diversity Index | 2.60 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | EVDN | Simpson's Evenness | 0.65 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | HBI Index | 9.94 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | Total Taxa | 3 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | Shannon Diversity Index | 0.79 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | Shannon Evenness | 0.72 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | Simpson's Diversity Index | 2.01 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWC | Simpson's Evenness | 0.67 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | HBI Index | 9.50 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | Total Taxa | 9 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | Shannon Diversity Index | 1.26 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | Shannon Evenness | 0.57 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | Simpson's Diversity Index | 2.22 |
| 4985860 | Newstate Duck Club Middle Unit | 21-Nov-07 | OWDN | Simpson's Evenness | 0.25 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|--|-------------|------------------------------|---------------------------|--------------|
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | HBI Index | 8.50 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | Total Taxa | 4 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | Shannon Diversity Index | 1.39 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | Shannon Evenness | 1.00 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | Simpson's Diversity Index | nd |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVC | Simpson's Evenness | nd |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | HBI Index | 8.17 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | Total Taxa | 14 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | Shannon Diversity Index | 2.16 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | Shannon Evenness | 0.82 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | Simpson's Diversity Index | 7.56 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | EVDN | Simpson's Evenness | 0.54 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | HBI Index | 9.88 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | Total Taxa | 4 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | Shannon Diversity Index | 0.76 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | Shannon Evenness | 0.55 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | Simpson's Diversity Index | 1.66 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWC | Simpson's Evenness | 0.41 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | HBI Index | 9.88 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | Total Taxa | 6 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | Shannon Diversity Index | 1.37 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | Shannon Evenness | 0.77 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | Simpson's Diversity Index | 3.28 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 6-Nov-07 | OWDN | Simpson's Evenness | 0.55 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | HBI Index | 9.11 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | Total Taxa | 7 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | Shannon Diversity Index | 1.70 |

| STORET | Site | Date | Sample Type/Replicate | Metric | Value |
|---------------|--|-------------|------------------------------|---------------------------|--------------|
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | Shannon Evenness | 0.87 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | Simpson's Diversity Index | 5.46 |
| 4985630 | GSL Wetlands Public Shooting Ground Pintail Lake Outfall | 5-Sep-07 | Sweep | Simpson's Evenness | 0.78 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | HBI Index | 8.80 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | Total Taxa | 3 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | Shannon Diversity Index | 0.95 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | Shannon Evenness | 0.86 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | Simpson's Diversity Index | 3.33 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 1 | Simpson's Evenness | 1.11 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | HBI Index | 8.50 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | Total Taxa | 4 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | Shannon Diversity Index | 0.99 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | Shannon Evenness | 0.71 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | Simpson's Diversity Index | 2.33 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 2 | Simpson's Evenness | 0.58 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | HBI Index | 8.89 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | Total Taxa | 4 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | Shannon Diversity Index | 1.27 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | Shannon Evenness | 0.92 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | Simpson's Diversity Index | 4.50 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVC 3 | Simpson's Evenness | 1.13 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | HBI Index | 8.17 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | Total Taxa | 4 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | Shannon Diversity Index | 0.39 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | Shannon Evenness | 0.28 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | Simpson's Diversity Index | 1.20 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 1 | Simpson's Evenness | 0.30 |

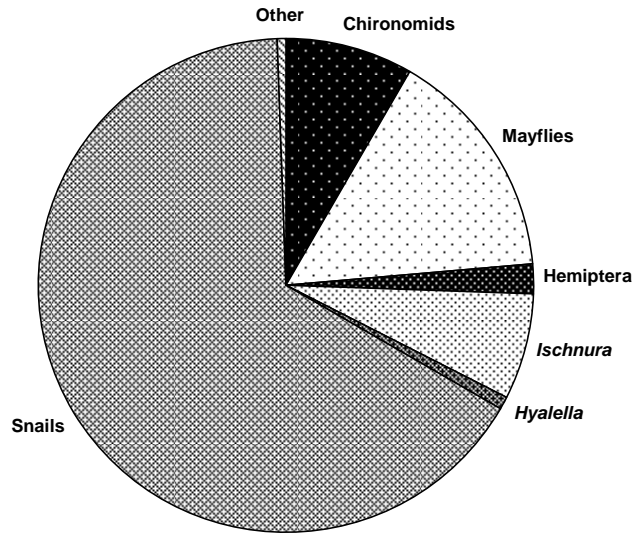
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| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | EVDN 2 | Shannon Evenness | 0.54 |
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| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 1 | Simpson's Evenness | 0.51 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | HBI Index | 8.36 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | Total Taxa | 4 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | Shannon Diversity Index | 0.99 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | Shannon Evenness | 0.71 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWC 2 | Simpson's Diversity Index | 2.42 |
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| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | Total Taxa | 9 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 2 | Shannon Diversity Index | 1.41 |
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| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | Total Taxa | 10 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | Shannon Diversity Index | 1.19 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | Shannon Evenness | 0.52 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 14-Nov-07 | OWDN 3 | Simpson's Diversity Index | 2.60 |
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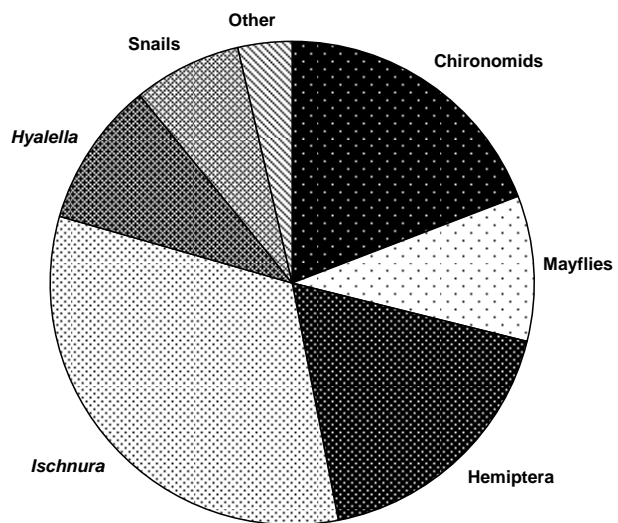
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| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | Shannon Diversity Index | 1.22 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | Shannon Evenness | 0.68 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | Simpson's Diversity Index | 3.12 |
| 4985621 | GSL Wetlands Public Shooting Ground Widgeon Lake 02 inflow | 5-Sep-07 | Sweep | Simpson's Evenness | 0.52 |
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| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | Total Taxa | 5 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | Shannon Diversity Index | 1.38 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | Shannon Evenness | 0.86 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | Simpson's Diversity Index | 4.11 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVC | Simpson's Evenness | 0.82 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | HBI Index | 8.91 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | Total Taxa | 10 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | Shannon Diversity Index | 2.05 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | Shannon Evenness | 0.89 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | Simpson's Diversity Index | 7.33 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 6-Nov-07 | EVDN | Simpson's Evenness | 0.73 |
| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | HBI Index | 9.96 |
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| 4985620 | GSL Wetlands Public Shooting Ground Widgeon Lake 01 Outfall | 5-Sep-07 | Sweep | Shannon Diversity Index | 1.31 |
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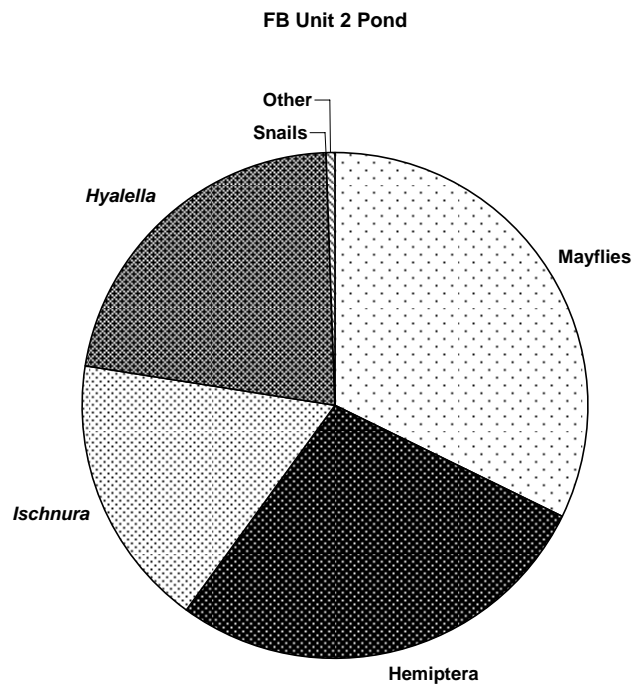
Appendix C

FB-Turpin Unit Pond

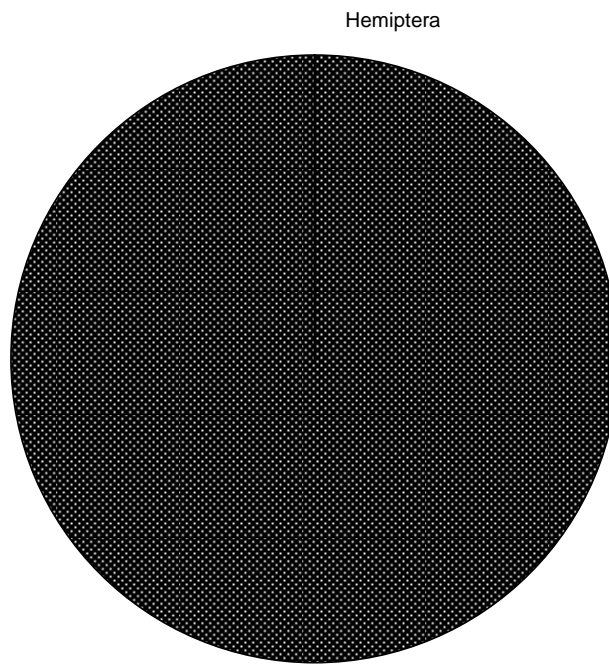


FB Unit 1 Pond

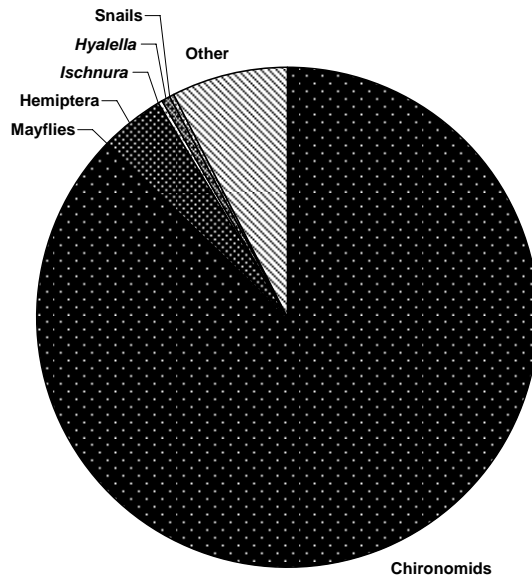




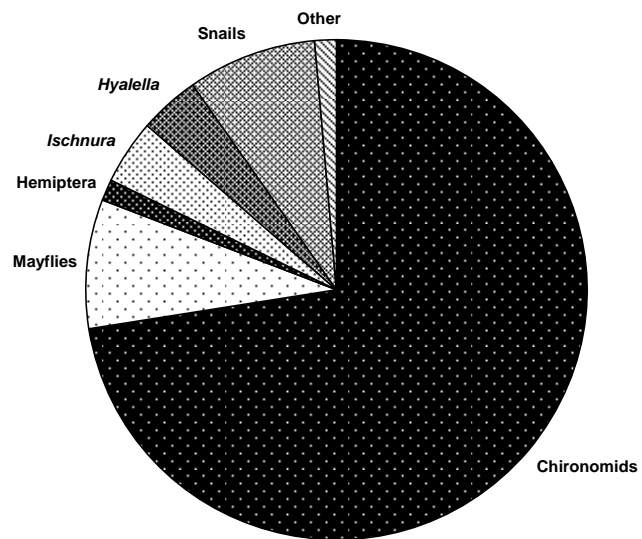
FB IMPC Conservation Pond

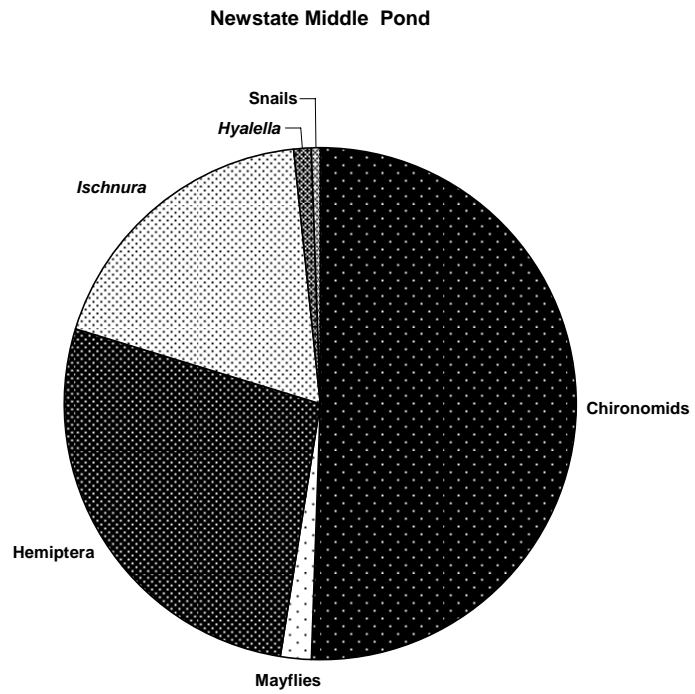
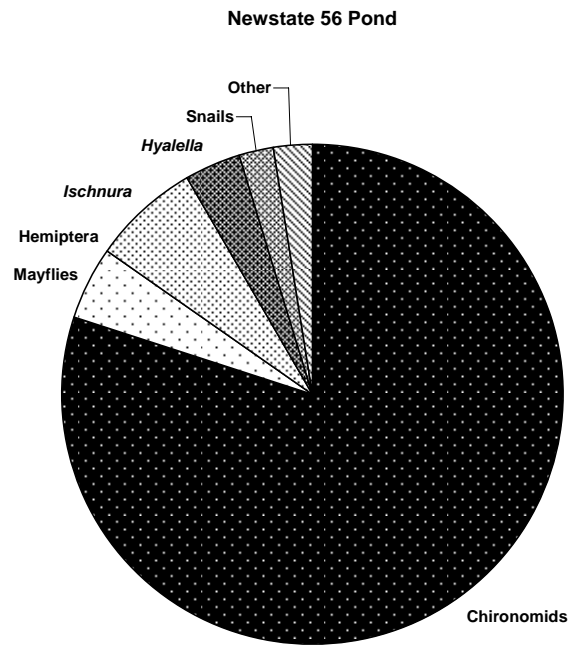


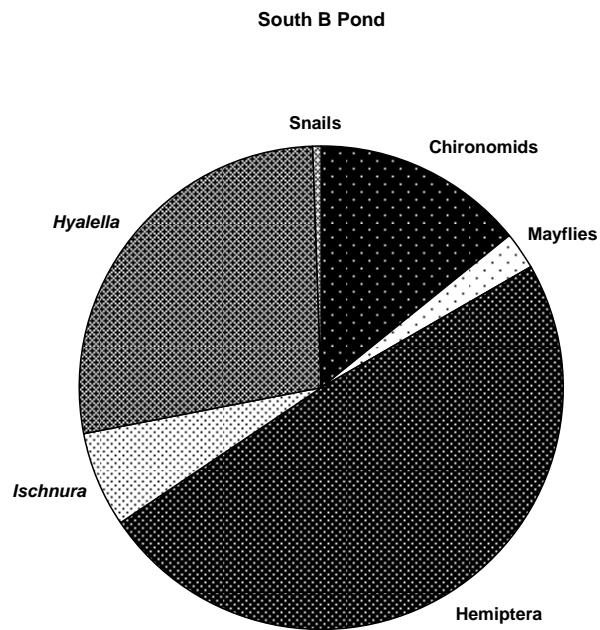
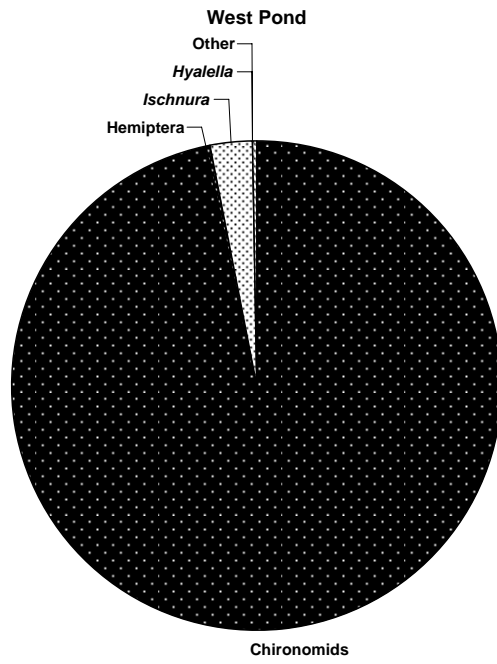
Newstate 47 Pond



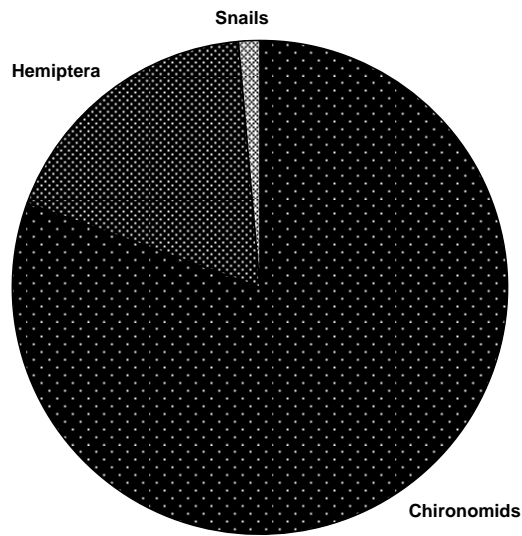
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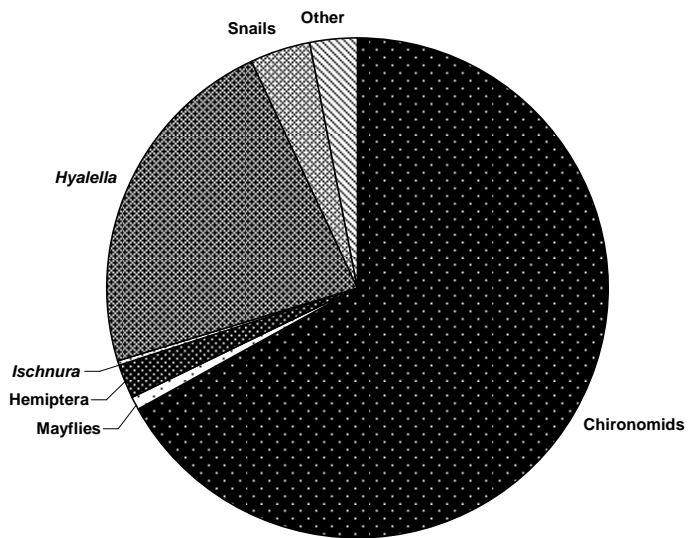




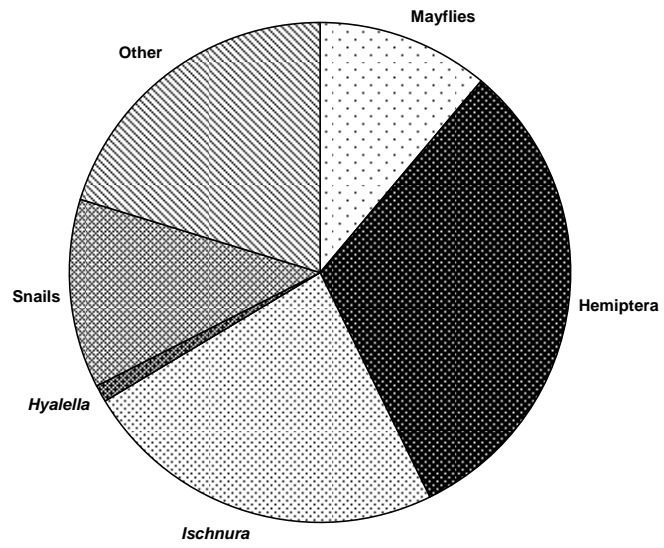
SW Pond South



Widgeon Inflow Pond



Widgeon Outfall Pond



Pintail Outfall Pond

